

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121218\
 Data File : VF060999.D
 Acq On : 12 Dec 2018 16:49
 Operator : VA/AP
 Sample : VF1212SBS02
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 3:25:18 PM

Quant Time: Dec 13 02:30:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	4.86	168	182549	50.00	µg/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	290861	50.00	µg/l	-0.05
63) Chlorobenzene-d5	9.77	117	273929	50.00	µg/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	145261	50.00	µg/l	-0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	105064	48.86	µg/l	-0.04
Spiked Amount 50.000			Recovery	=	97.72%	
35) Dibromofluoromethane	4.10	113	126597	54.86	µg/l	-0.05
Spiked Amount 50.000			Recovery	=	109.72%	
50) Toluene-d8	7.55	98	319160	46.96	µg/l	-0.05
Spiked Amount 50.000			Recovery	=	93.92%	
62) 4-Bromofluorobenzene	11.40	95	154921	50.15	µg/l	-0.04
Spiked Amount 50.000			Recovery	=	100.30%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	53344	19.544	µg/l	97
3) Chloromethane	1.10	50	40167	22.615	µg/l	90
4) Vinyl Chloride	1.14	62	35957	21.704	µg/l	93
5) Bromomethane	1.34	94	25776	22.064	µg/l	90
6) Chloroethane	1.38	64	16115	22.502	µg/l	97
7) Trichlorofluoromethane	1.48	101	77685m	21.854	µg/l	
8) Diethyl Ether	1.63	74	10387	20.321	µg/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	39213	21.821	µg/l	96
10) Methyl Iodide	1.90	142	62774m	22.981	µg/l	
11) Tert butyl alcohol	2.57	59	9967	113.064	µg/l #	69
12) 1,1-Dichloroethene	1.79	96	29866	20.662	µg/l	87
13) Acrolein	2.00	56	5709	68.353	µg/l	87
14) Allyl chloride	2.09	41	33071	18.356	µg/l	94
15) Acrylonitrile	2.94	53	21335	107.952	µg/l	99
16) Acetone	2.24	43	48783	123.015	µg/l	97
17) Carbon Disulfide	1.83	76	82931	21.398	µg/l	98
18) Methyl Acetate	2.34	43	20057	29.469	µg/l	94
19) Methyl tert-butyl Ether	2.43	73	69529	21.357	µg/l	95
20) Methylene Chloride	2.25	84	33026m	22.701	µg/l	
21) trans-1,2-Dichloroethene	2.30	96	22774	16.343	µg/l	94
22) Diisopropyl ether	2.79	45	111363	22.709	µg/l	95
23) Vinyl Acetate	3.19	43	262343	117.031	µg/l	99
24) 1,1-Dichloroethane	2.87	63	63481	21.757	µg/l	98
25) 2-Butanone	4.33	43	78055	113.797	µg/l	99
26) 2,2-Dichloropropane	3.59	77	40444	21.381	µg/l	96
27) cis-1,2-Dichloroethene	3.47	96	48916	21.562	µg/l	95
28) Bromochloromethane	3.71	49	32604	23.284	µg/l	98
29) Tetrahydrofuran	4.07	42	33024	113.583	µg/l	94
30) Chloroform	3.86	83	96797	21.556	µg/l	98
31) Cyclohexane	3.68	56	65250m	21.549	µg/l	
32) 1,1,1-Trichloroethane	4.09	97	60399	19.395	µg/l	94
36) 1,1-Dichloropropene	4.27	75	74495	23.091	µg/l	96
37) Ethyl Acetate	4.10	43	30704	23.420	µg/l #	96
38) Carbon Tetrachloride	3.97	117	59348	20.828	µg/l	100

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 ALS Vial : 5 Sample Multiplier: 1

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 ClientSampleId :
 VF1212SBS02

Manual Integrations
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Quant Time: Dec 13 02:30:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
39) Methylcyclohexane	5.44	83	69340	20.509	µg/l	92
40) Benzene	4.63	78	159232	22.342	µg/l	97
41) Methacrylonitrile	4.74	41	16939	22.849	µg/l #	83
42) 1,2-Dichloroethane	4.94	62	63081	24.243	µg/l	100
43) Isopropyl Acetate	6.95	43	36308	20.861	µg/l #	91
44) Trichloroethene	5.49	130	54526	23.398	µg/l	98
45) 1,2-Dichloropropane	6.23	63	41718	22.538	µg/l	99
46) Dibromomethane	6.09	93	27421	21.838	µg/l	92
47) Bromodichloromethane	6.38	83	76261	22.866	µg/l	100
48) Methyl methacrylate	6.71	41	25141	21.186	µg/l	96
49) 1,4-Dioxane	6.71	88	4001	460.675	µg/l #	93
51) 4-Methyl-2-Pentanone	8.26	43	135081	111.733	µg/l	97
52) Toluene	7.61	92	101652	20.305	µg/l	90
53) t-1,3-Dichloropropene	8.27	75	57765	21.294	µg/l	97
54) cis-1,3-Dichloropropene	7.30	75	74223	22.101	µg/l	97
55) 1,1,2-Trichloroethane	8.48	97	31187	21.379	µg/l	98
56) Ethyl methacrylate	8.62	69	33611	20.741	µg/l	96
57) 1,3-Dichloropropane	8.85	76	60100	23.549	µg/l #	87
58) 2-Chloroethyl Vinyl ether	7.29	63	32545	196.347	µg/l	94
59) 2-Hexanone	9.49	43	95454	112.542	µg/l	93
60) Dibromochloromethane	8.71	129	45959	21.145	µg/l	100
61) 1,2-Dibromoethane	8.99	107	33758	21.422	µg/l	99
64) Tetrachloroethene	8.15	164	44174	21.113	µg/l	98
65) Chlorobenzene	9.79	112	119393	22.404	µg/l	99
66) 1,1,1,2-Tetrachloroethane	9.92	131	51370	22.423	µg/l	98
67) Ethyl Benzene	9.89	91	227651	22.947	µg/l	100
68) m/p-Xylenes	10.13	106	156697	43.915	µg/l	97
69) o-Xylene	10.71	106	87644	22.275	µg/l	98
70) Styrene	10.79	104	119755	21.956	µg/l	98
71) Bromoform	10.77	173	22674	20.490	µg/l	93
73) Isopropylbenzene	11.13	105	262205	22.841	µg/l	99
74) N-amyl acetate	11.37	43	59016	22.264	µg/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	43016	22.769	µg/l	99
76) 1,2,3-Trichloropropane	11.80	75	30955	22.542	µg/l	98
77) Bromobenzene	11.49	156	55095	21.892	µg/l	83
78) n-propylbenzene	11.59	91	309334	23.011	µg/l	98
79) 2-Chlorotoluene	11.72	91	172046	22.320	µg/l	97
80) 1,3,5-Trimethylbenzene	11.83	105	208606	22.385	µg/l	100
81) trans-1,4-Dichloro-2-buten	11.87	75	14296m	21.248	µg/l	
82) 4-Chlorotoluene	11.90	91	179556	22.135	µg/l	94
83) tert-Butylbenzene	12.13	119	218390	23.006	µg/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	212518	22.850	µg/l	99
85) sec-Butylbenzene	12.30	105	289454	22.274	µg/l	97
86) p-Isopropyltoluene	12.46	119	252891	23.212	µg/l	99
87) 1,3-Dichlorobenzene	12.47	146	110113	23.002	µg/l	97
88) 1,4-Dichlorobenzene	12.57	146	102532	21.978	µg/l	98
89) n-Butylbenzene	12.84	91	255346	23.179	µg/l	97
90) Hexachloroethane	12.91	117	58341	22.238	µg/l	97
91) 1,2-Dichlorobenzene	12.94	146	101743	22.443	µg/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8695	23.805	µg/l	70

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ALS Vial : 5 Sample Multiplier: 1

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ClientSampleId :
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Manual Integrations
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Quant Time: Dec 13 02:30:36 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
93) 1,2,4-Trichlorobenzene	14.19	180	74508	23.522	µg/l	96
94) Hexachlorobutadiene	14.18	225	47020	22.268	µg/l	94
95) Naphthalene	14.45	128	130008	18.975	µg/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	66618	22.650	µg/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

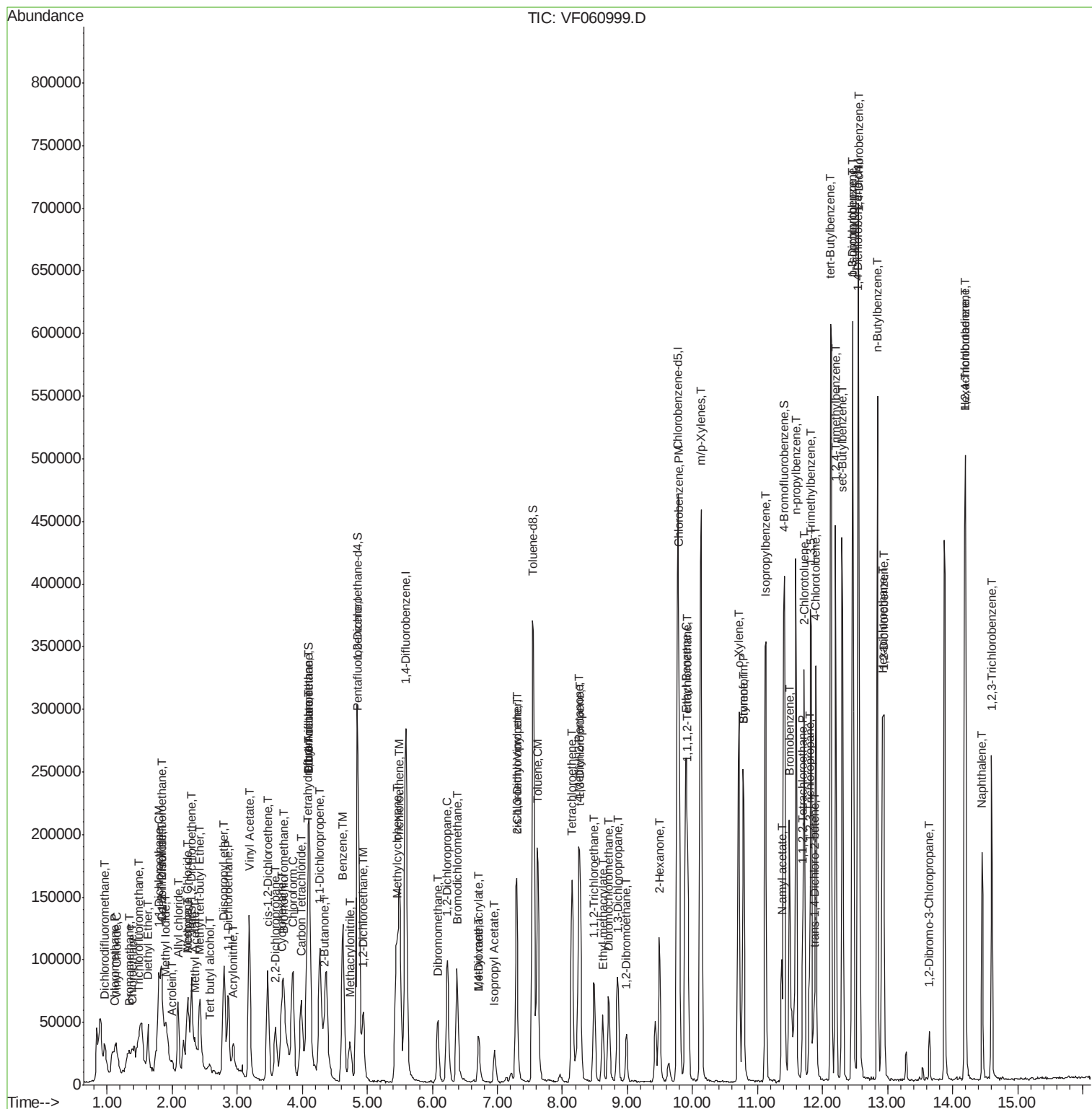
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 Data File : VF060999.D
 Acq On : 12 Dec 2018 16:49
 Operator : VA/AP
 Sample : VF1212SBS02
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

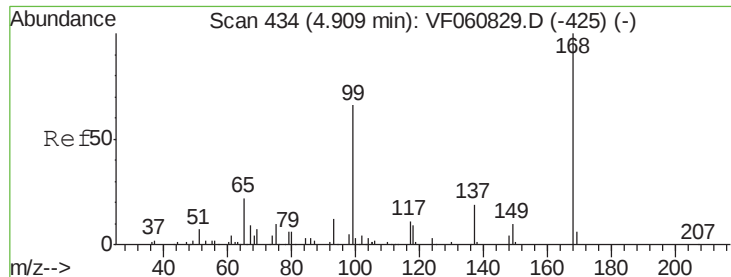
Instrument :
 MSVOA_F
 Client Sample Id :
 VF1212SBS02

Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
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#1

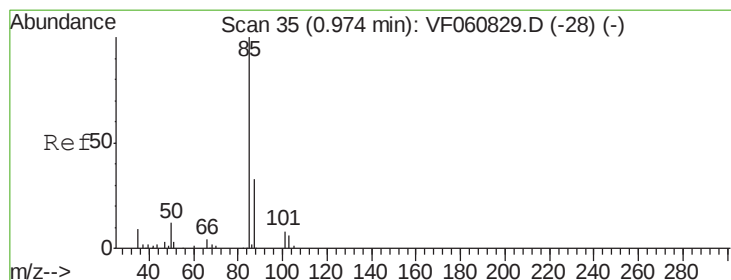
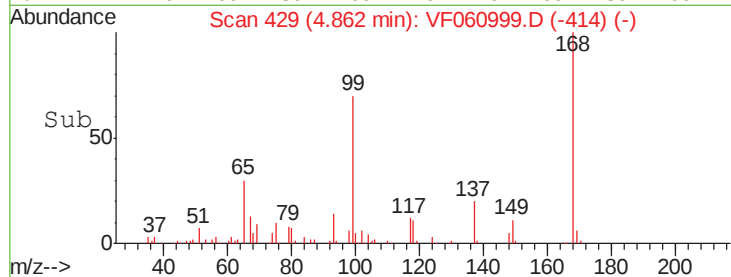
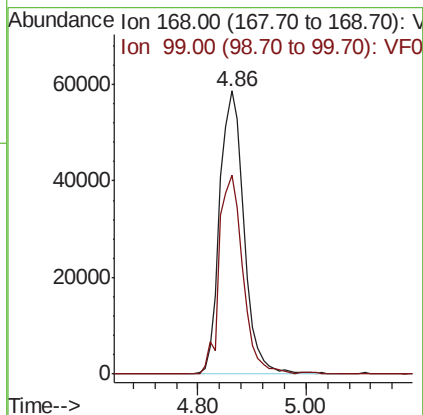
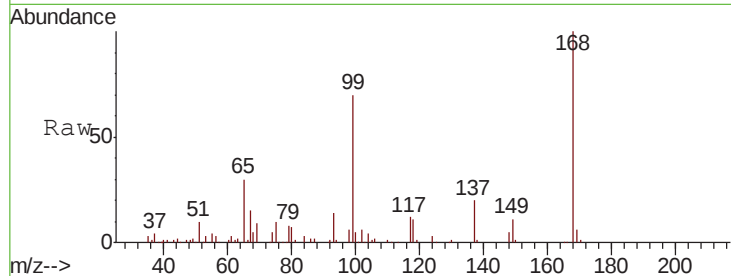
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion	Ratio	Lower	Upper
168	100		
99	70.1	52.6	79.0

Manual Integrations
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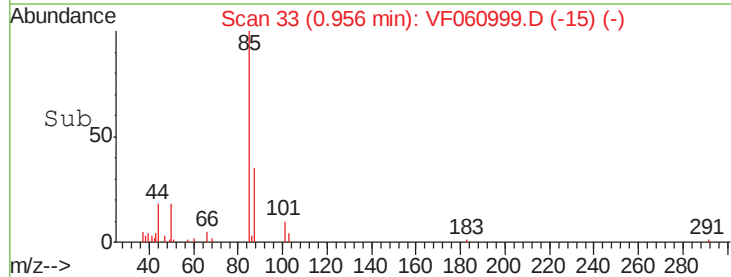
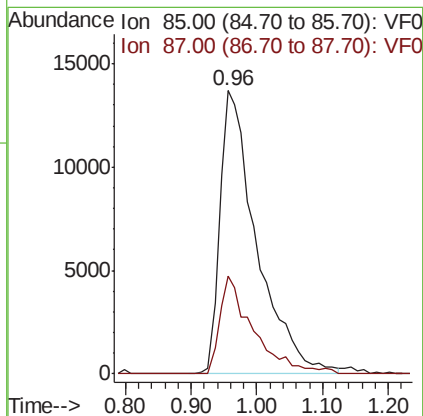
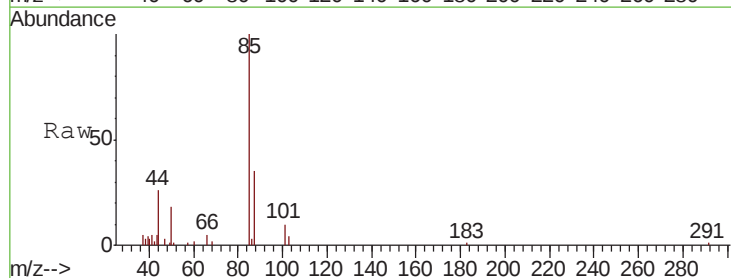
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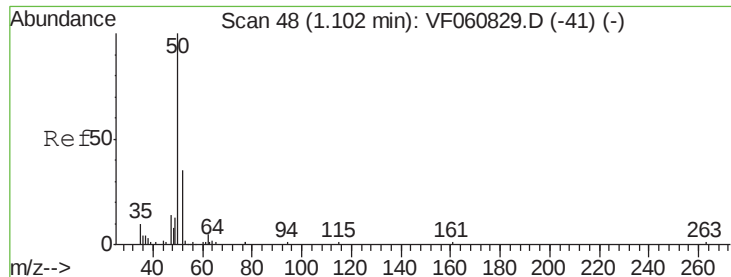


#2

Dichlorodifluoromethane
 Concen: 19.544 ug/l
 RT: 0.96 min Scan# 33
 Delta R.T. -0.02 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.7	16.7	50.0





#3

Chloromethane

Concen: 22.615 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 50 Resp: 40167

Ion Ratio Lower Upper

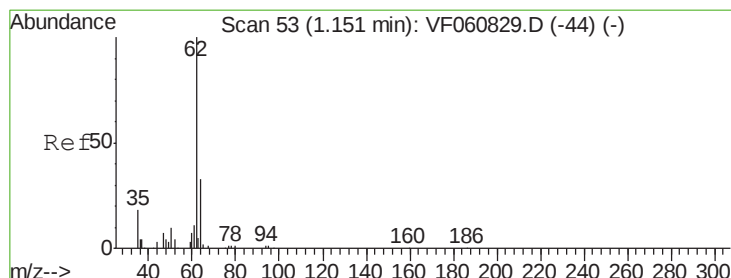
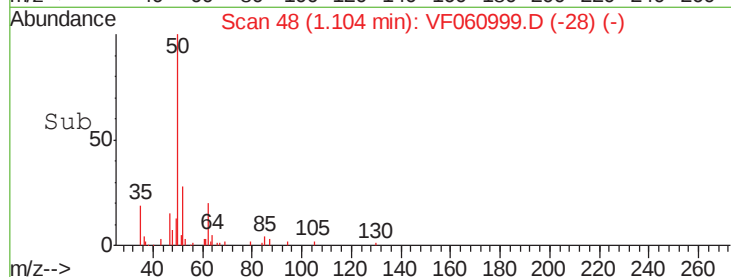
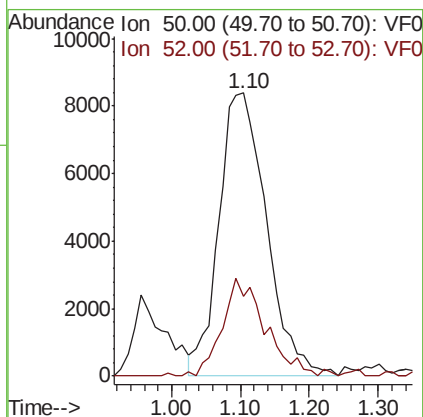
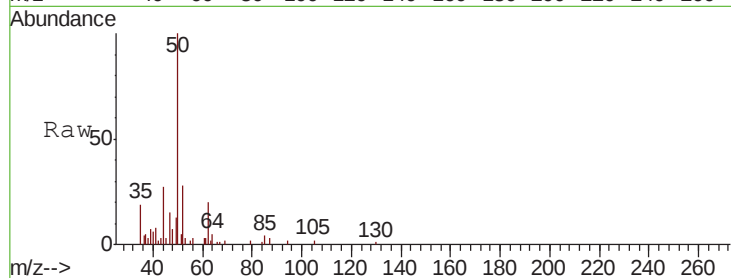
50 100

52 28.1 27.0 40.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 21.704 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060999.D

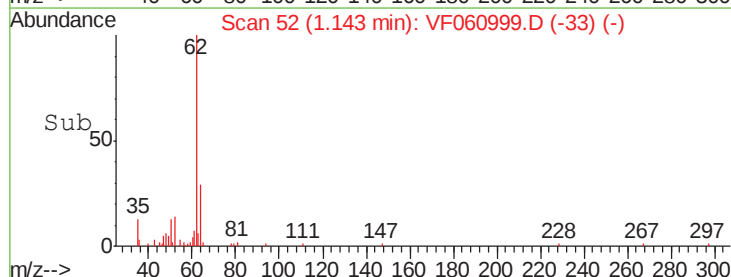
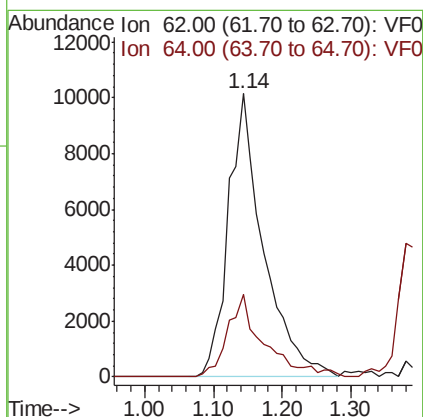
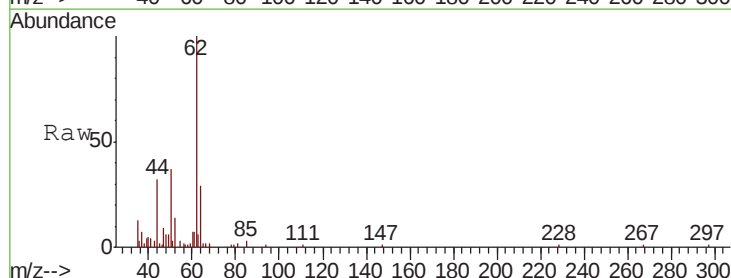
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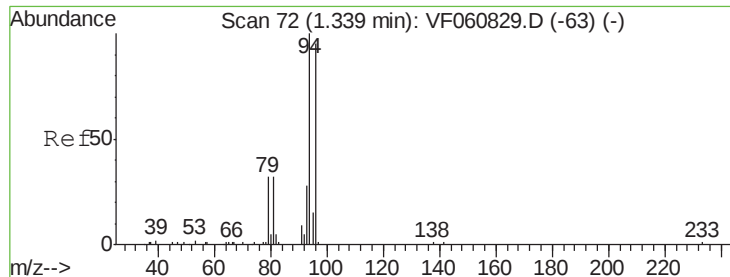
Tgt Ion: 62 Resp: 35957

Ion Ratio Lower Upper

62 100

64 29.2 26.4 39.6





#5

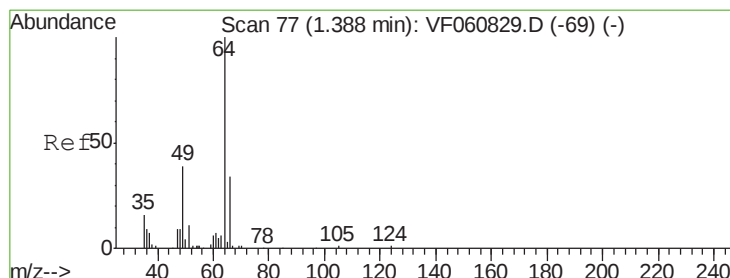
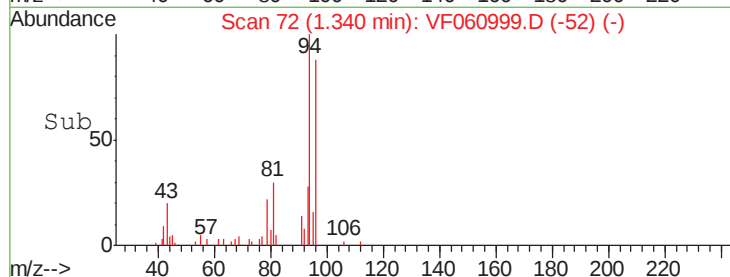
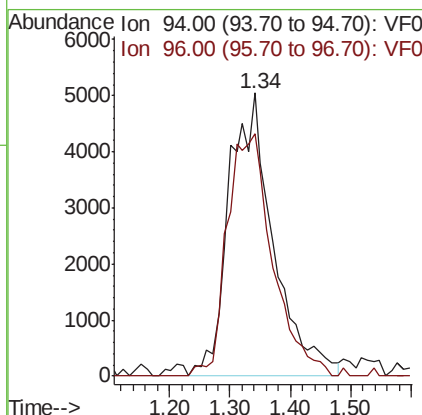
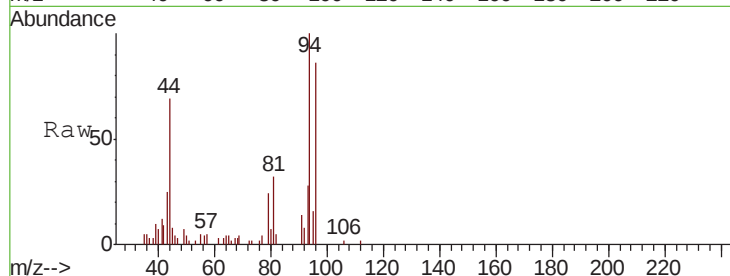
Bromomethane
 Concen: 22.064 ug/l
 RT: 1.34 min Scan# 72
 Delta R.T. 0.00 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion: 94 Resp: 25776
 Ion Ratio Lower Upper
 94 100
 96 85.6 75.9 113.9

Manual Integrations
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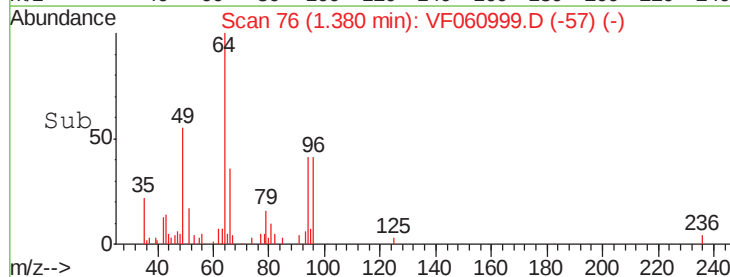
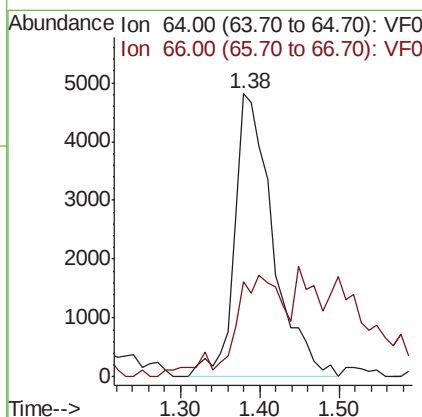
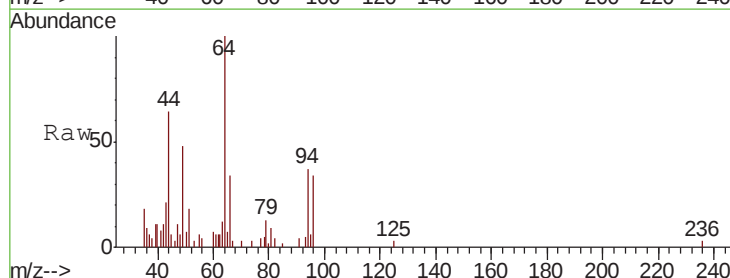
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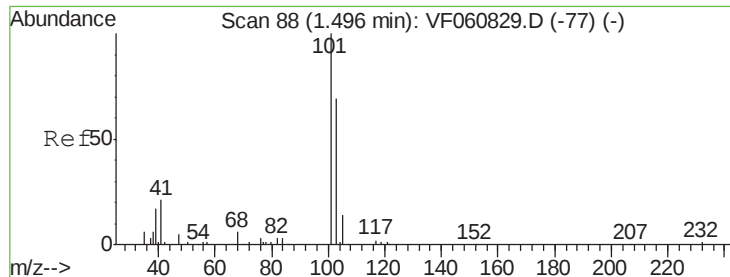


#6

Chloroethane
 Concen: 22.502 ug/l
 RT: 1.38 min Scan# 76
 Delta R.T. -0.01 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion: 64 Resp: 16115
 Ion Ratio Lower Upper
 64 100
 66 33.6 28.1 42.1





#7

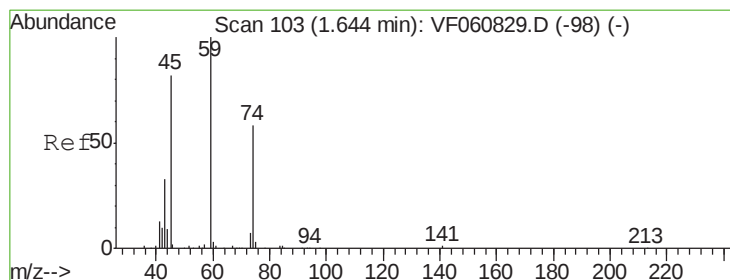
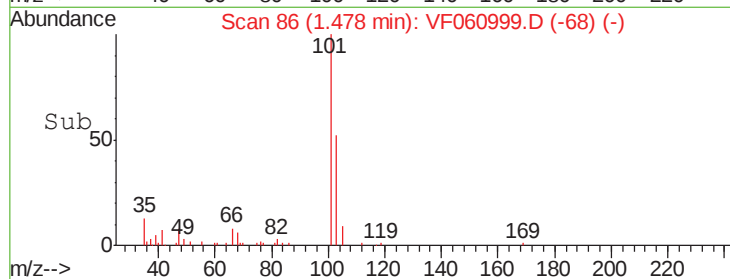
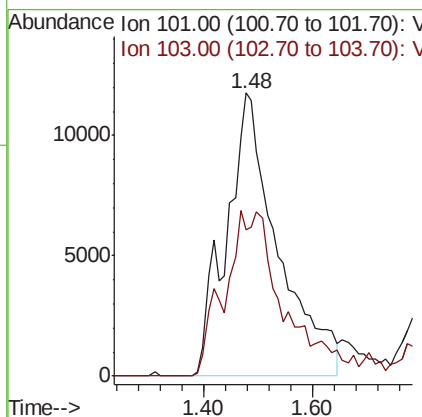
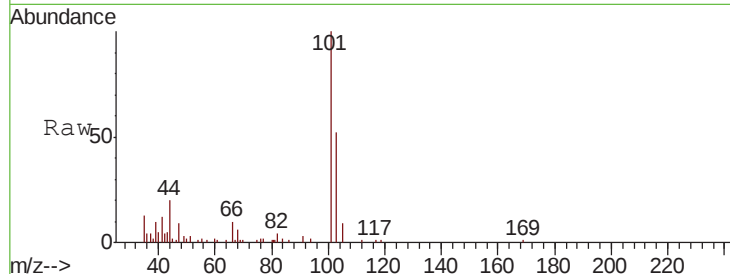
Trichlorofluoromethane
Concen: 21.854 ug/l m
RT: 1.48 min Scan# 86
Delta R.T. -0.02 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion:101 Resp: 77685
Ion Ratio Lower Upper
101 100
103 51.9 55.4 83.0#

Manual Integrations
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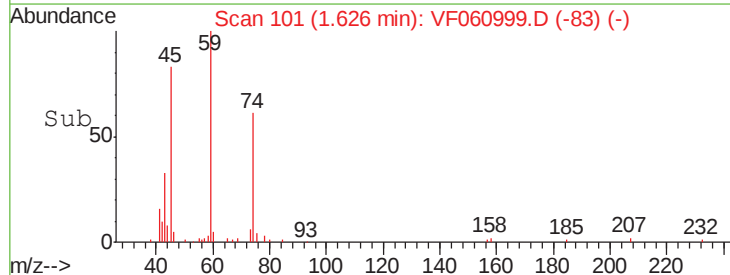
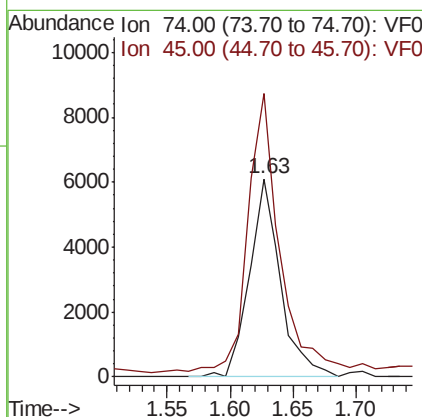
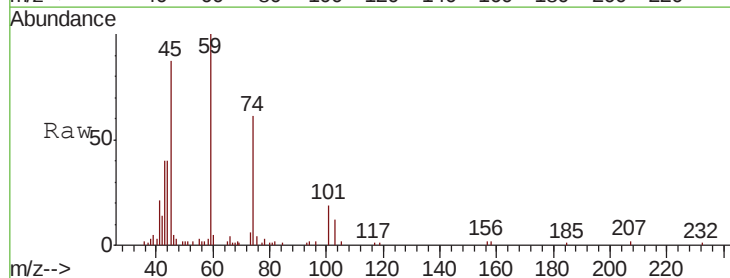
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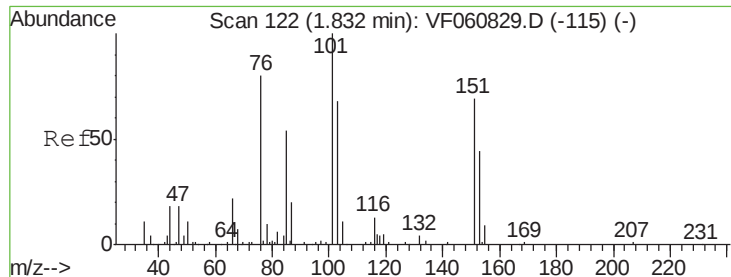


#8

Diethyl Ether
Concen: 20.321 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.02 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 74 Resp: 10387
Ion Ratio Lower Upper
74 100
45 143.0 71.0 212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.821 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:101 Resp: 39213

Ion Ratio Lower Upper

101 100

85 51.7 42.8 64.2

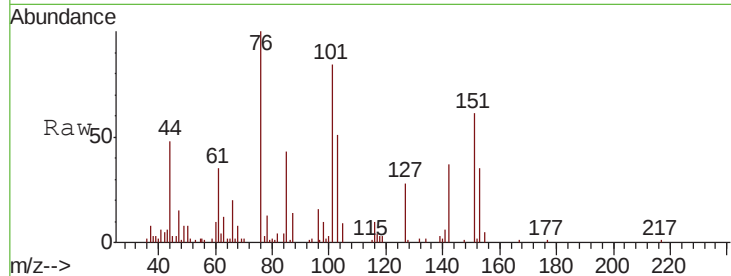
151 72.2 54.4 81.6

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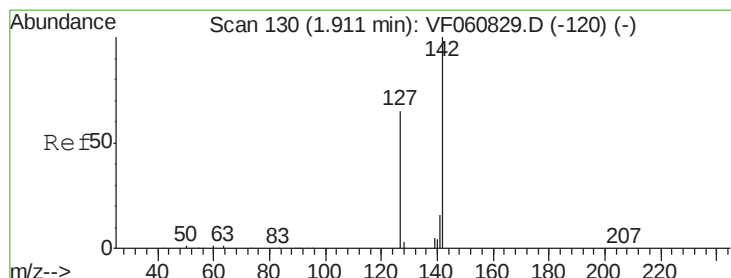
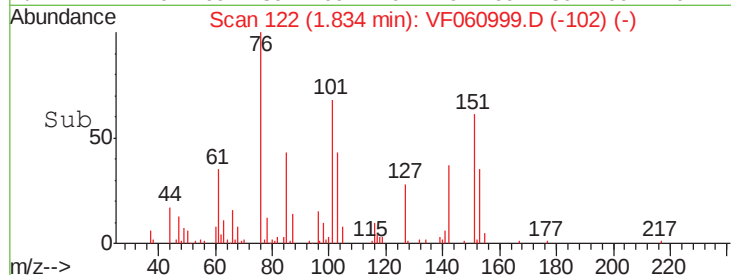
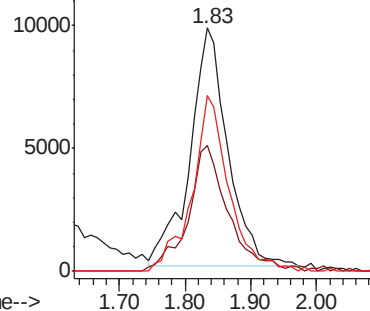
12/20/2018 3:25:18 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 22.981 ug/l m

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

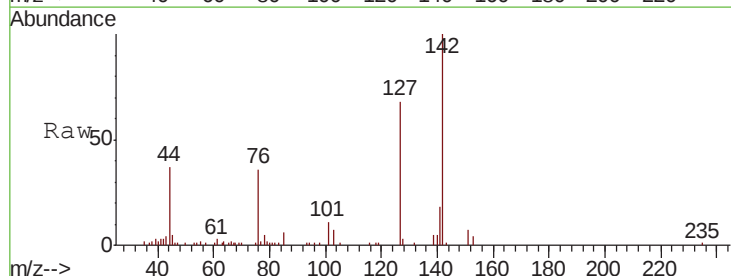
Tgt Ion:142 Resp: 62774

Ion Ratio Lower Upper

142 100

127 67.6 51.9 77.9

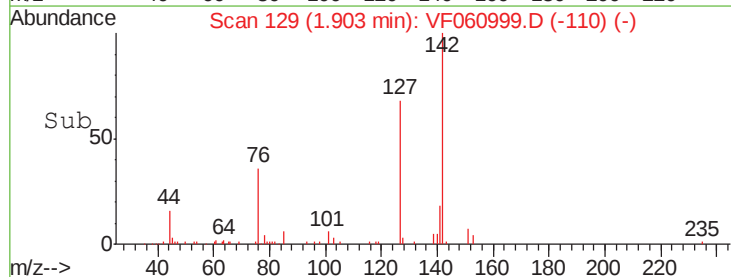
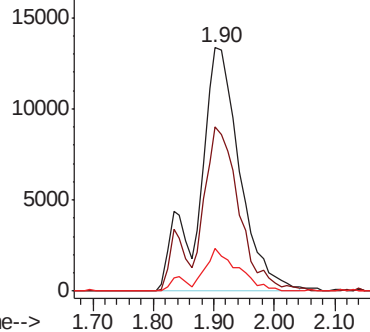
141 17.8 12.7 19.1

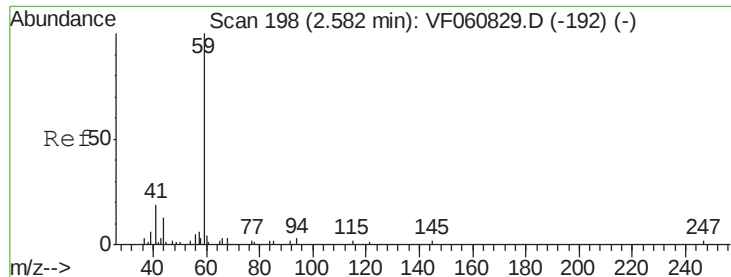


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





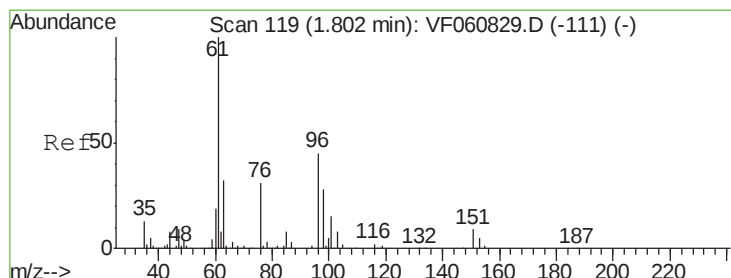
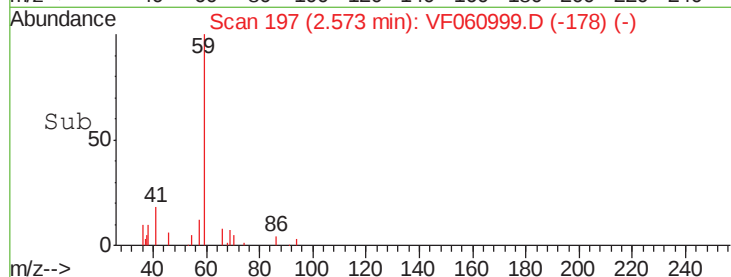
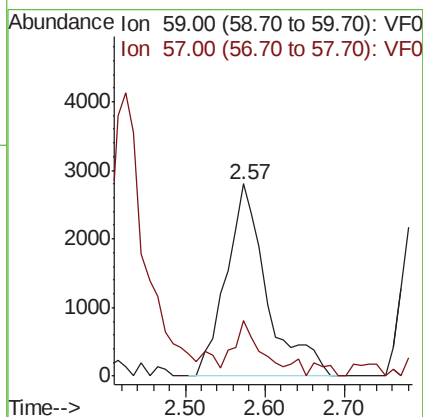
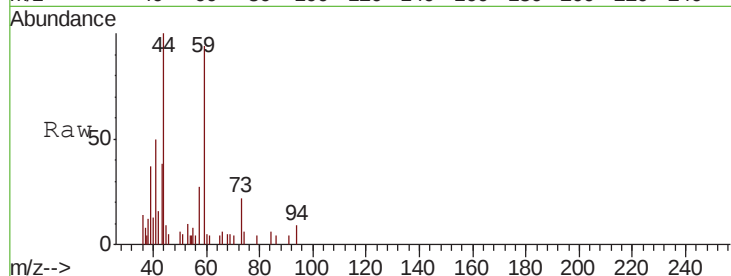
#11
Tert butyl alcohol
Concen: 113.064 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion: 59 Resp: 9967
Ion Ratio Lower Upper
59 100
57 28.9 12.7 19.1#

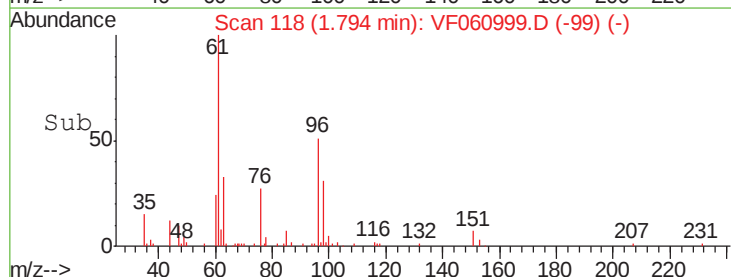
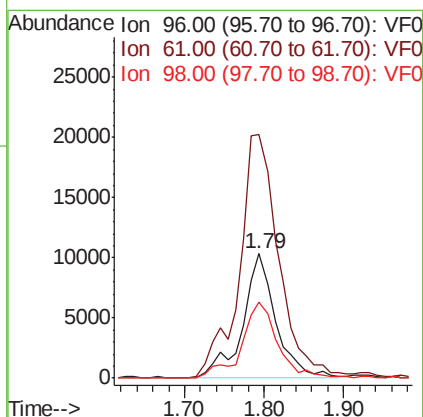
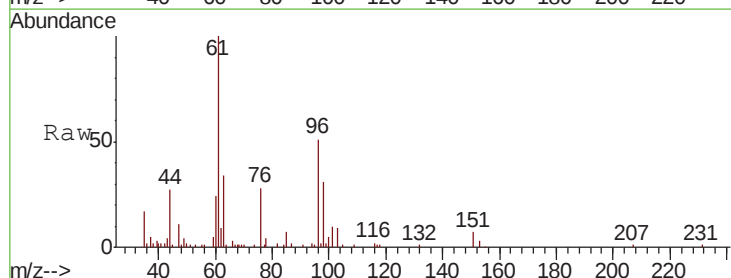
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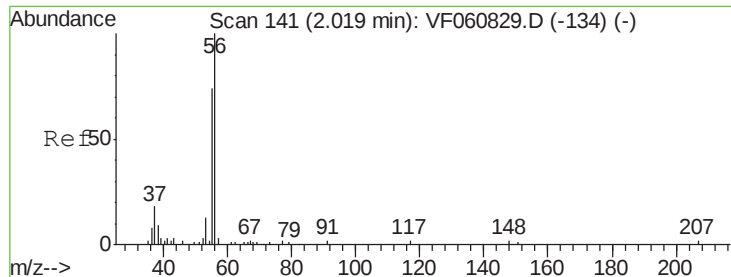
MMDadoda
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#12
1,1-Dichloroethene
Concen: 20.662 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 96 Resp: 29866
Ion Ratio Lower Upper
96 100
61 195.6 177.3 265.9
98 61.5 49.6 74.4





#13

Acrolein

Concen: 68.353 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 56 Resp: 5709

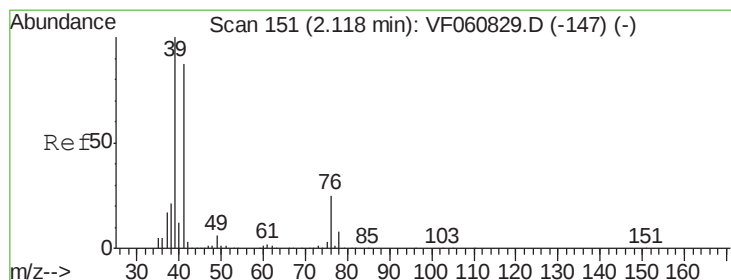
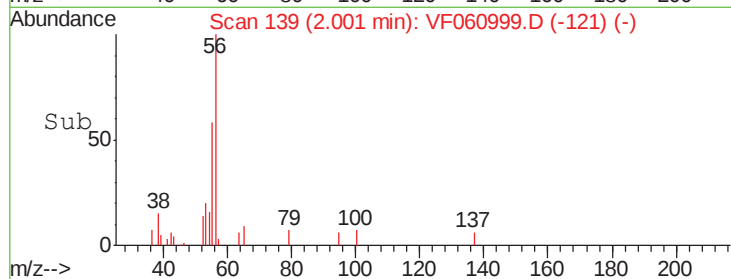
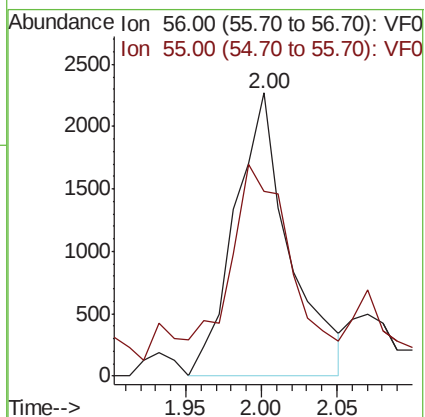
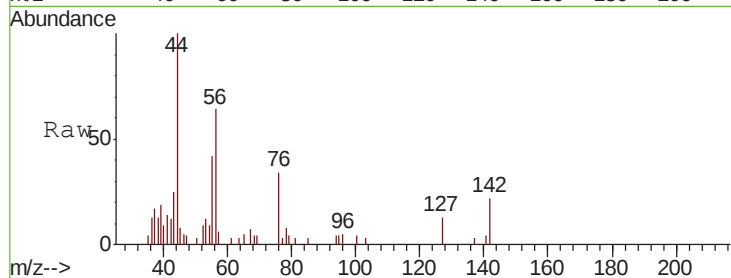
Ion Ratio Lower Upper

56 100

55 65.1 61.2 91.8

Manual Integrations
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#14

Allyl chloride

Concen: 18.356 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

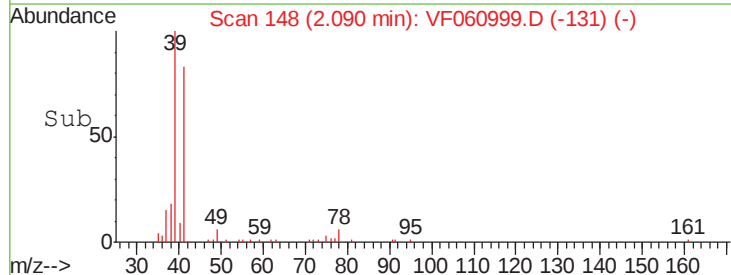
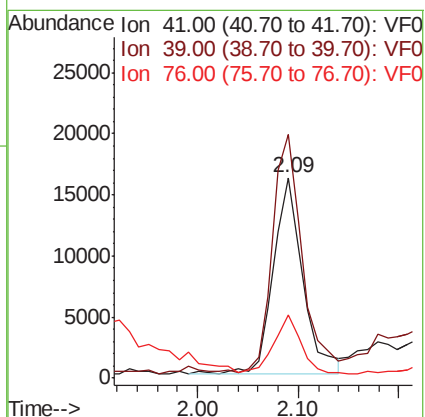
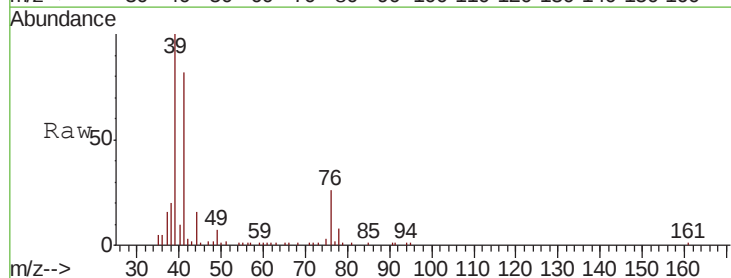
Tgt Ion: 41 Resp: 33071

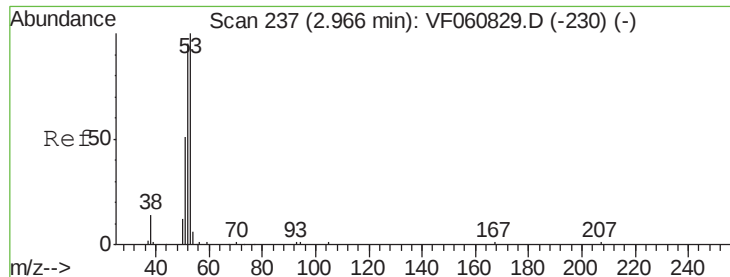
Ion Ratio Lower Upper

41 100

39 121.5 91.7 137.5

76 31.7 23.5 35.3





#15

Acrylonitrile

Concen: 107.952 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 53 Resp: 21335

Ion Ratio Lower Upper

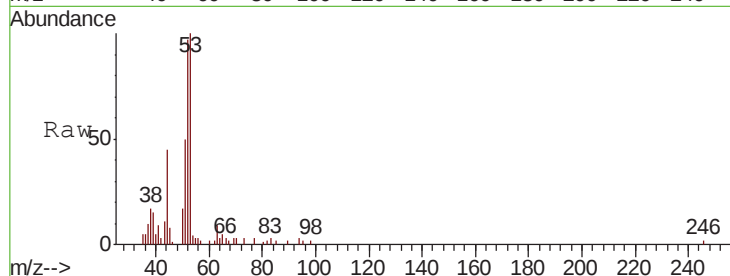
53 100

52 96.9 76.5 114.7

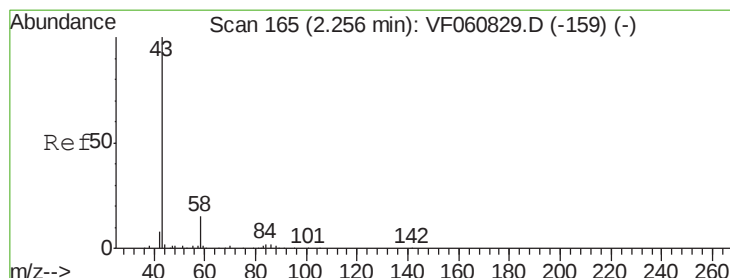
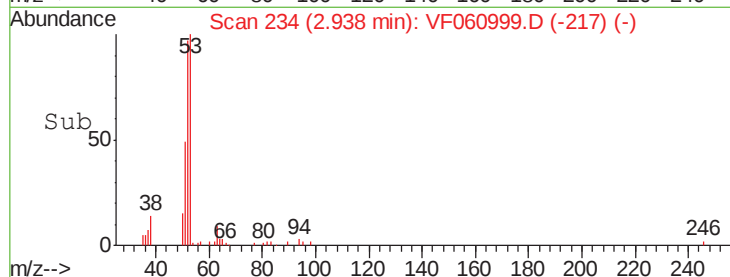
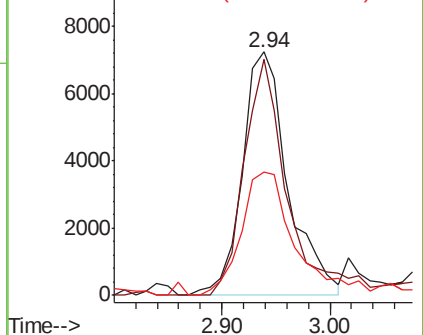
51 50.4 40.7 61.1

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Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 123.015 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060999.D

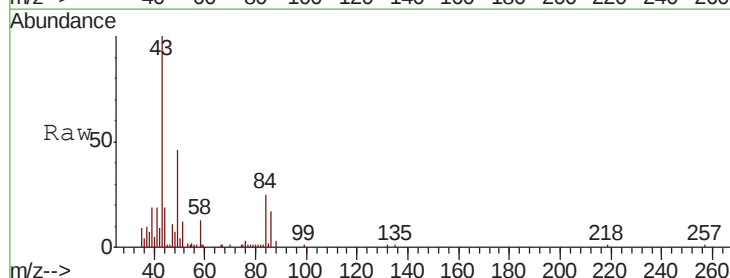
Acq: 12 Dec 2018 16:49

Tgt Ion: 43 Resp: 48783

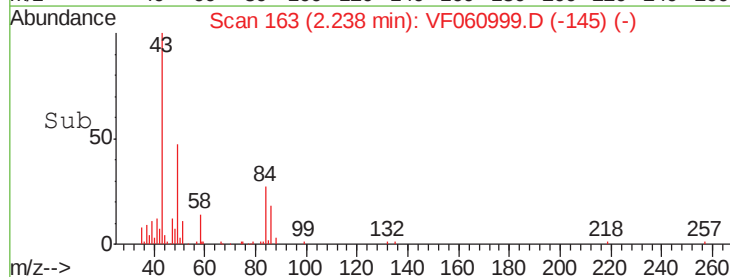
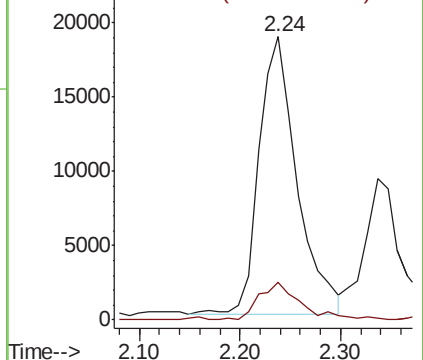
Ion Ratio Lower Upper

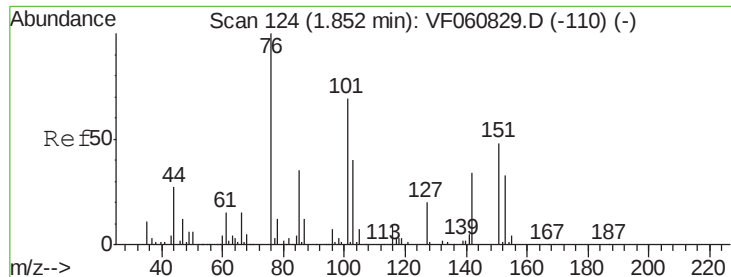
43 100

58 13.2 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#17

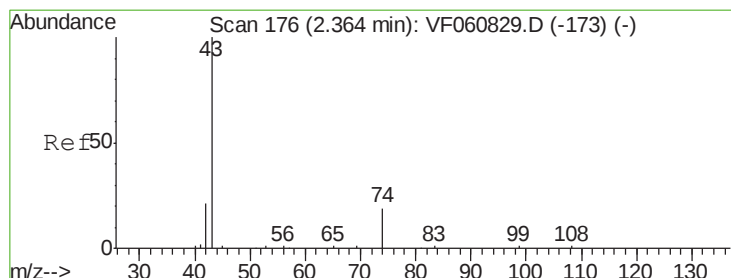
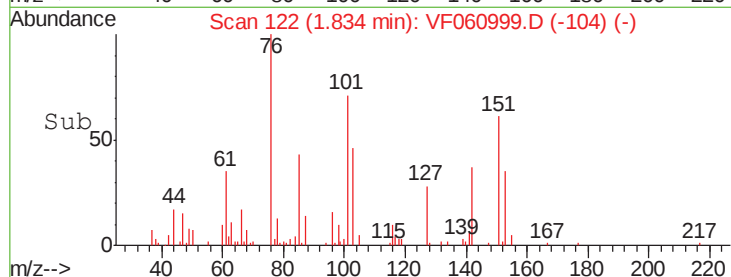
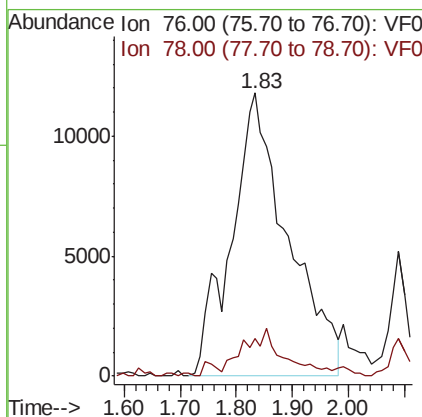
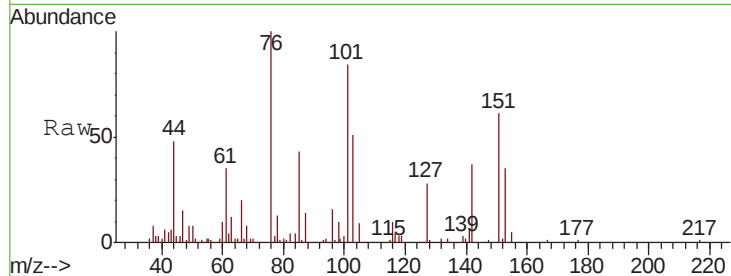
Carbon Disulfide
Concen: 21.398 ug/l
RT: 1.83 min Scan# 122
Delta R.T. -0.02 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion: 76 Resp: 82931
Ion Ratio Lower Upper
76 100
78 13.5 10.2 15.2

Manual Integrations
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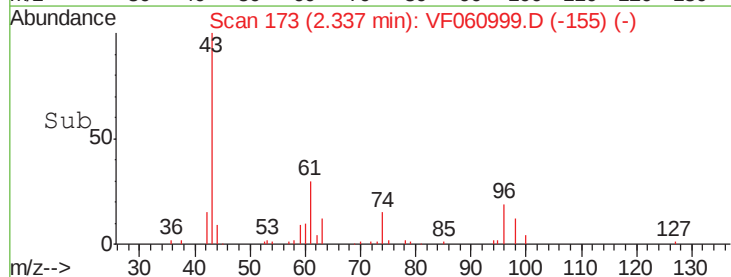
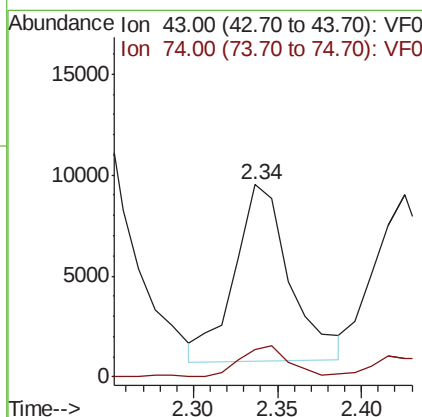
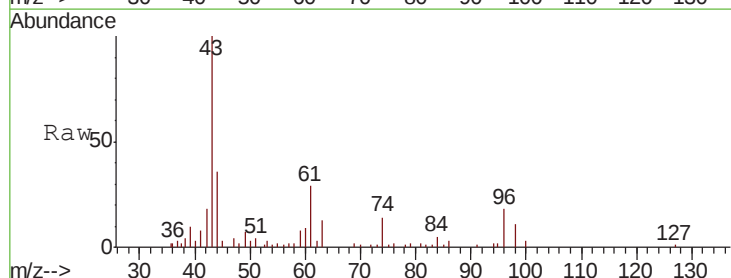
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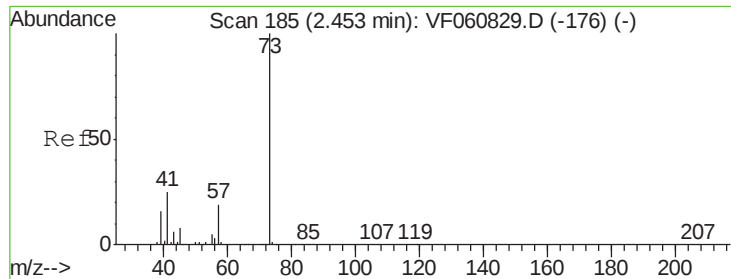


#18

Methyl Acetate
Concen: 29.469 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.03 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 43 Resp: 20057
Ion Ratio Lower Upper
43 100
74 14.1 13.3 19.9





#19

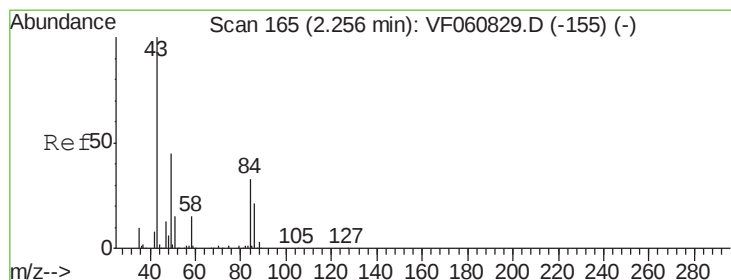
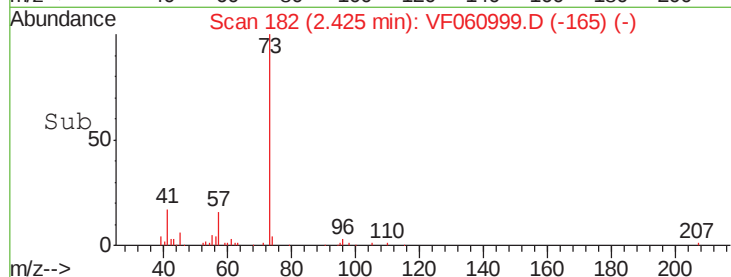
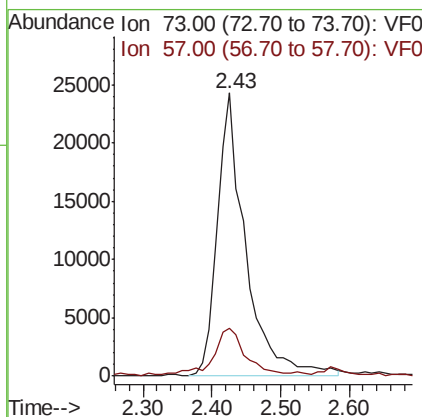
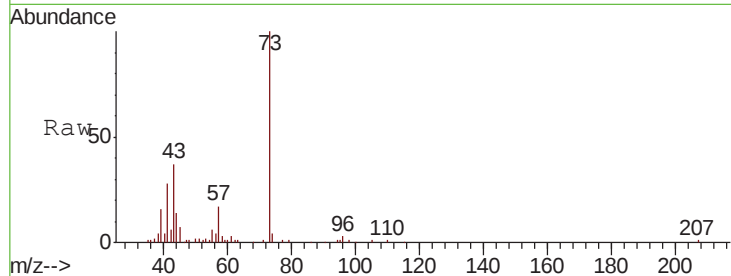
Methyl tert-butyl Ether
 Concen: 21.357 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion	73	Resp	69529
Ion Ratio	Lower	Upper	
73	100		
57	17.0	15.3	22.9

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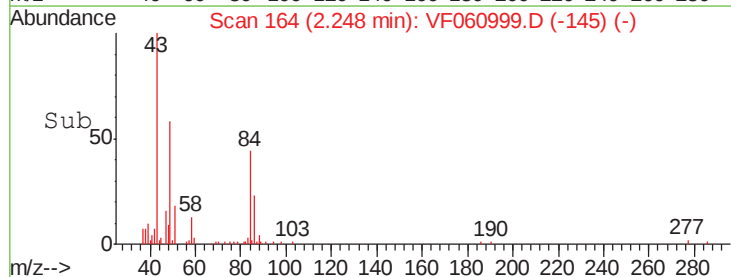
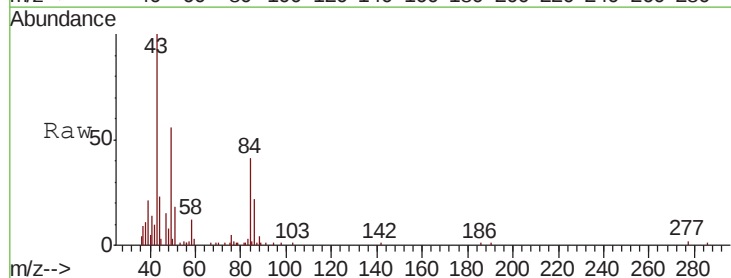
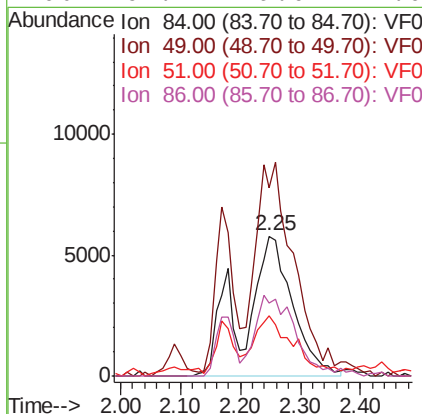
MMDadoda
 12/20/2018 3:25:18 PM

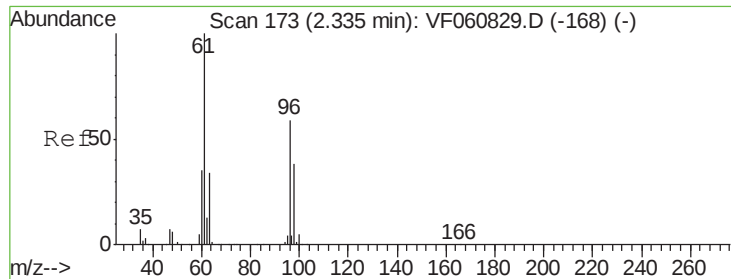


#20

Methylene Chloride
 Concen: 22.701 ug/l m
 RT: 2.25 min Scan# 164
 Delta R.T. -0.01 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion	84	Resp	33026
Ion Ratio	Lower	Upper	
84	100		
49	134.4	111.3	166.9
51	43.1	38.0	57.0
86	52.2	49.8	74.8





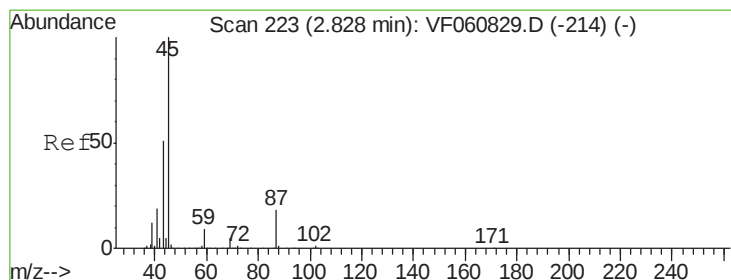
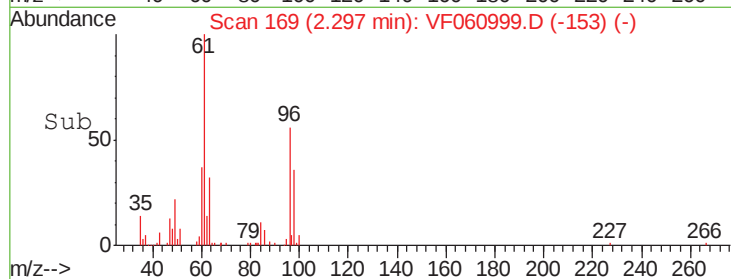
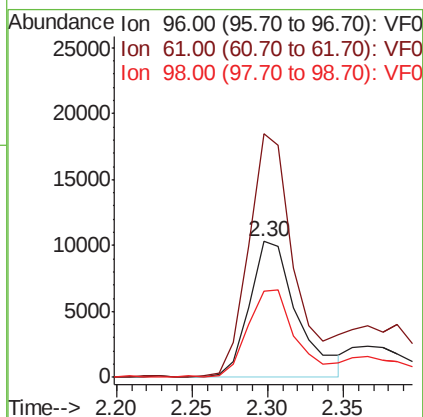
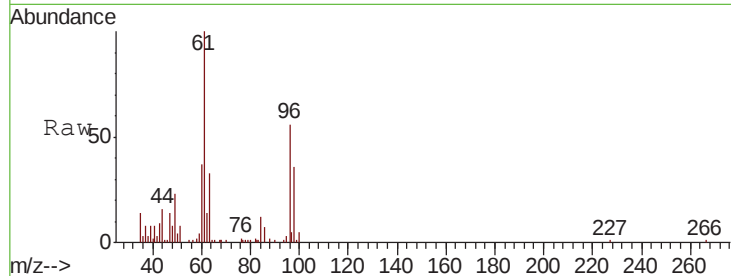
#21
trans-1,2-Dichloroethene
Concen: 16.343 ug/l
RT: 2.30 min Scan# 169
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion	96	Resp	22774
Ion	Ratio	Lower	Upper
96	100		
61	179.2	134.5	201.7
98	63.8	51.6	77.4

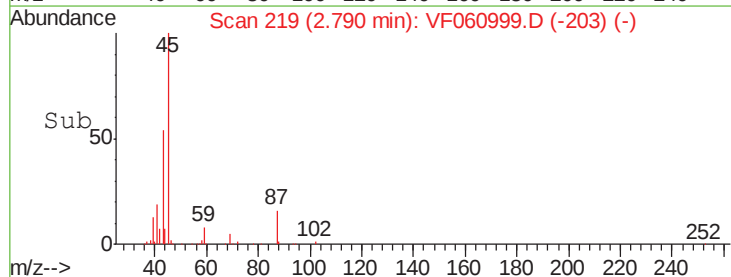
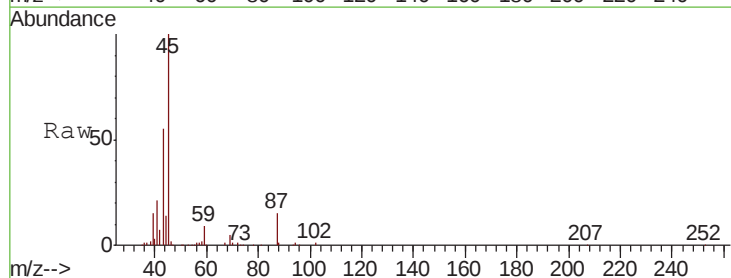
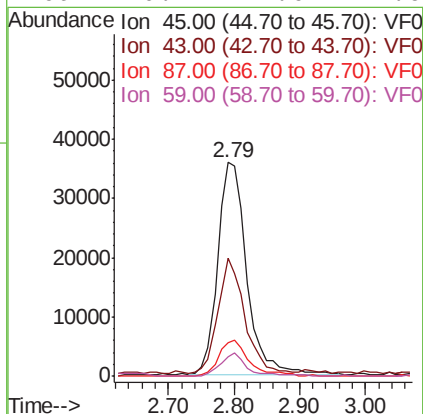
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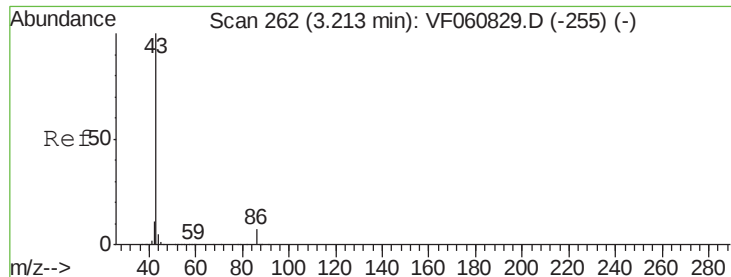
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#22
Diisopropyl ether
Concen: 22.709 ug/l
RT: 2.79 min Scan# 219
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion	45	Resp	111363
Ion	Ratio	Lower	Upper
45	100		
43	55.0	41.0	61.6
87	15.5	14.6	22.0
59	8.7	7.5	11.3





#23

Vinyl Acetate

Concen: 117.031 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 43 Resp: 262343

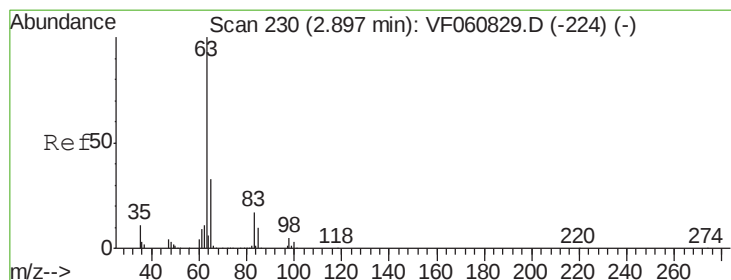
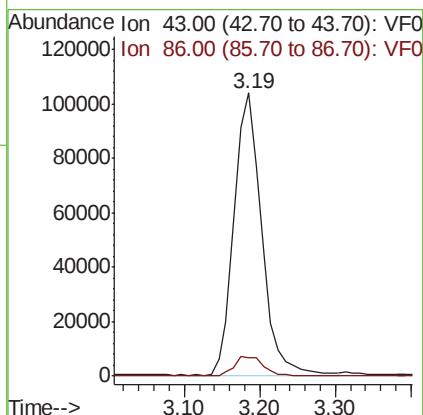
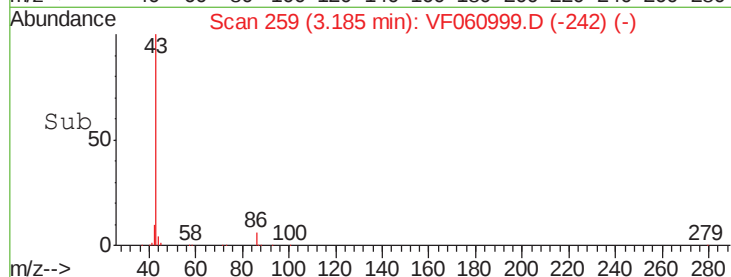
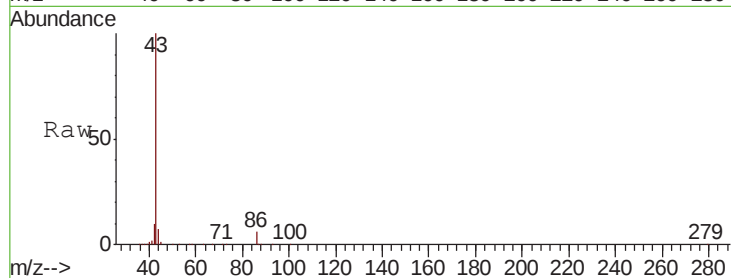
Ion Ratio Lower Upper

43 100

86 6.4 5.4 8.0

Manual Integrations
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MMDadoda
12/20/2018 3:25:18 PM



#24

1,1-Dichloroethane

Concen: 21.757 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

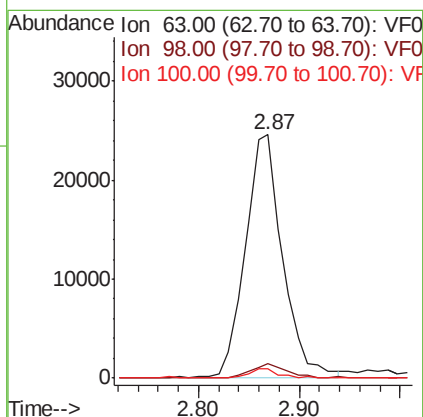
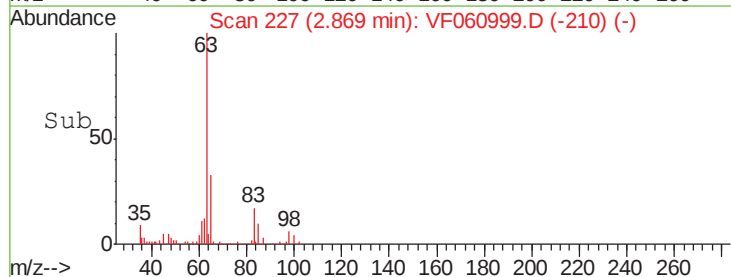
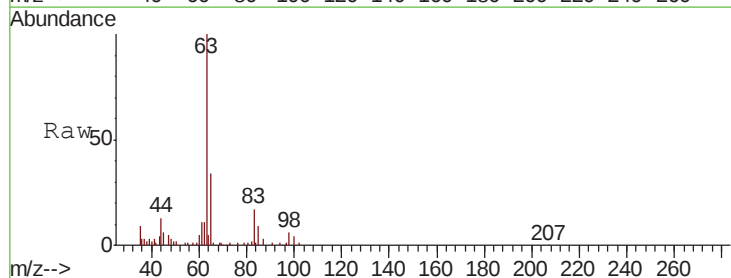
Tgt Ion: 63 Resp: 63481

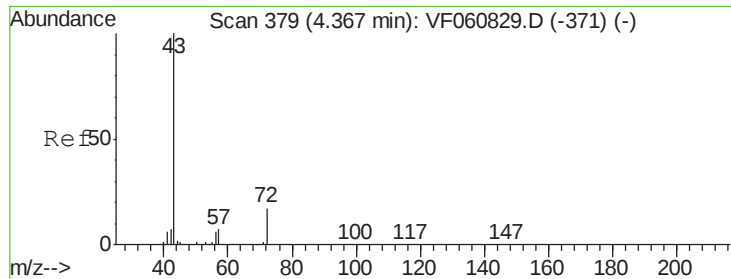
Ion Ratio Lower Upper

63 100

98 6.1 2.7 8.1

100 3.8 1.5 4.5





#25

2-Butanone

Concen: 113.797 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 43 Resp: 78055

Ion Ratio Lower Upper

43 100

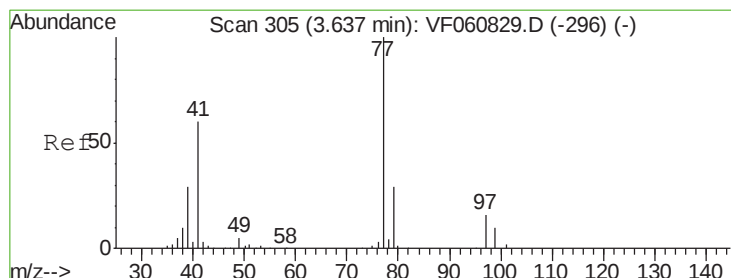
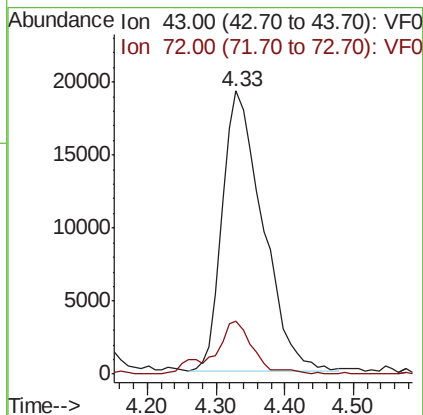
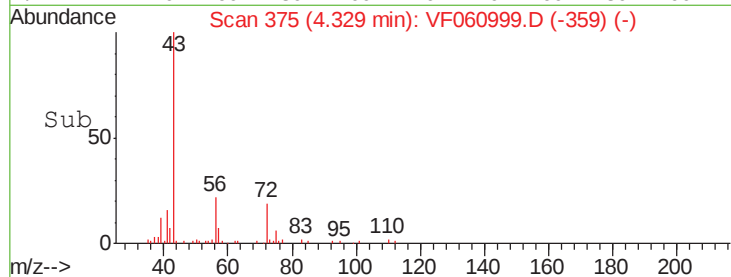
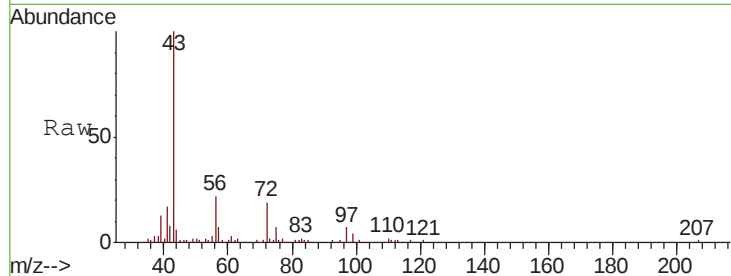
72 18.8 15.4 23.2

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#26

2,2-Dichloropropane

Concen: 21.381 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.05 min

Lab File: VF060999.D

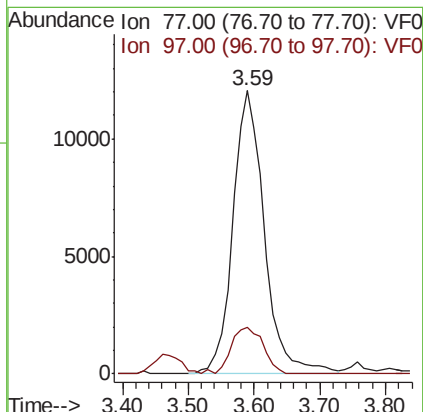
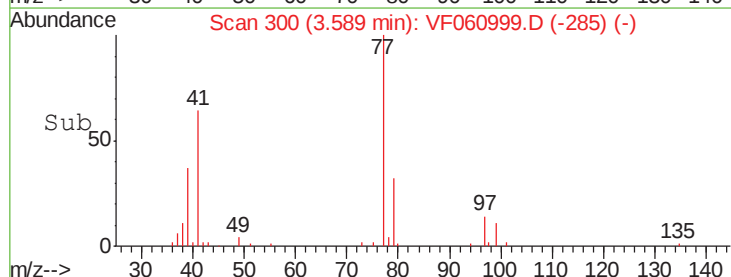
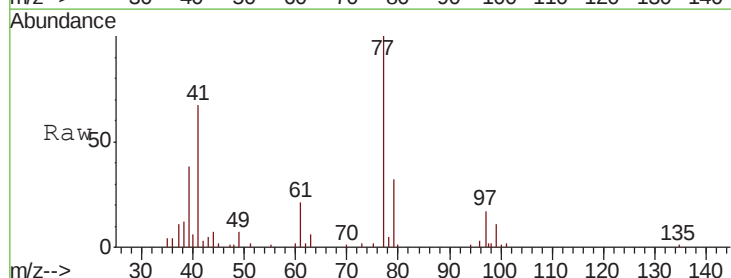
Acq: 12 Dec 2018 16:49

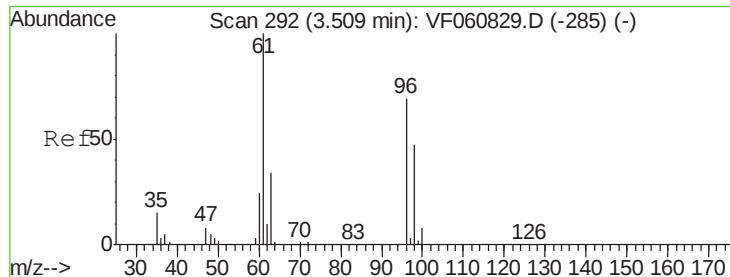
Tgt Ion: 77 Resp: 40444

Ion Ratio Lower Upper

77 100

97 18.8 8.6 25.8





#27

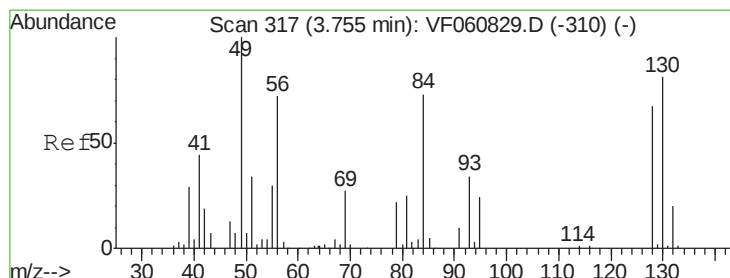
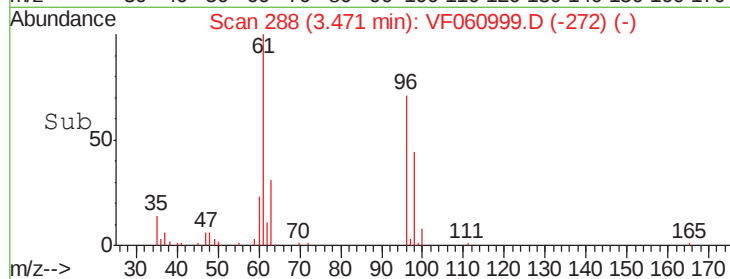
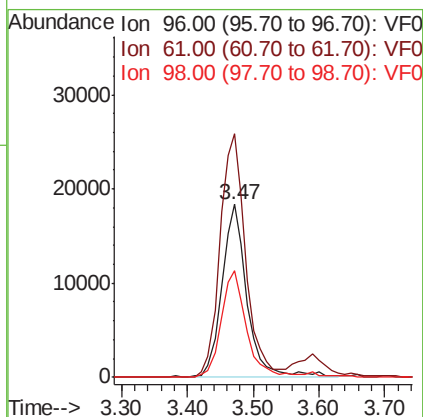
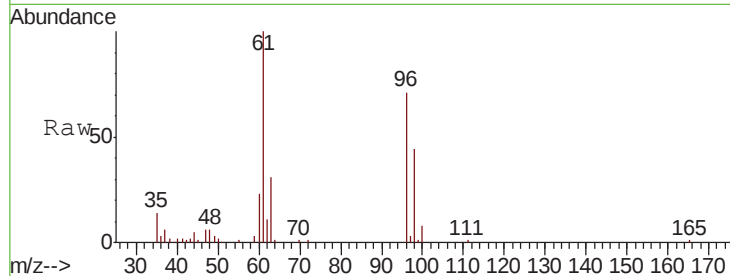
cis-1,2-Dichloroethene
Concen: 21.562 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.0	0.0	290.6
98	62.0	0.0	137.8

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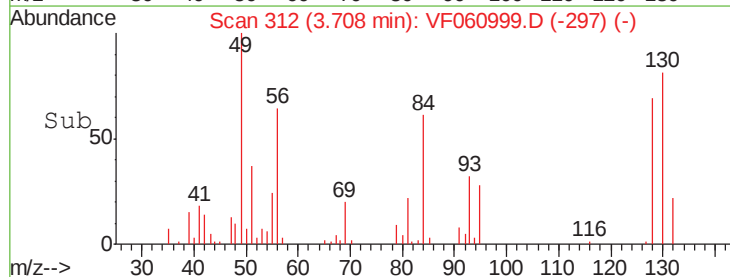
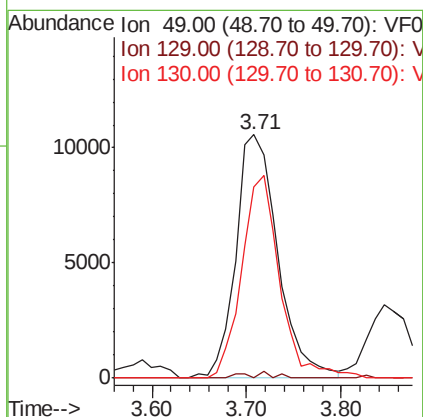
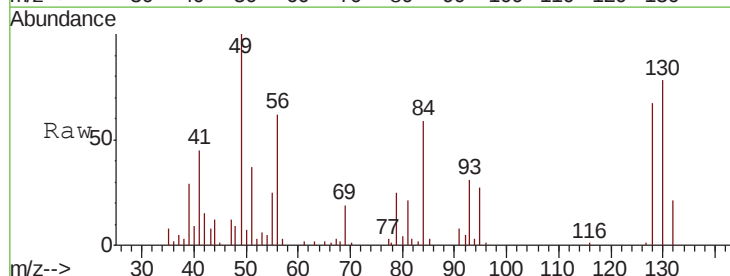
MMDadoda
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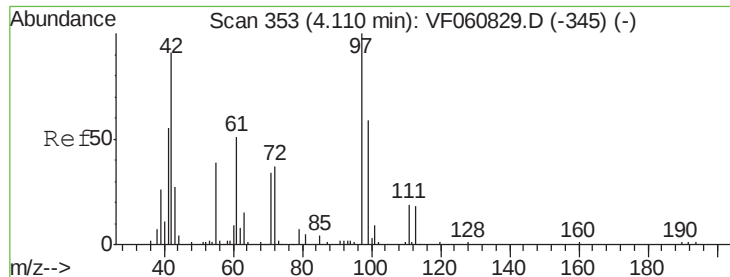


#28

Bromochloromethane
Concen: 23.284 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	78.4	64.2	96.4





#29

Tetrahydrofuran

Concen: 113.583 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

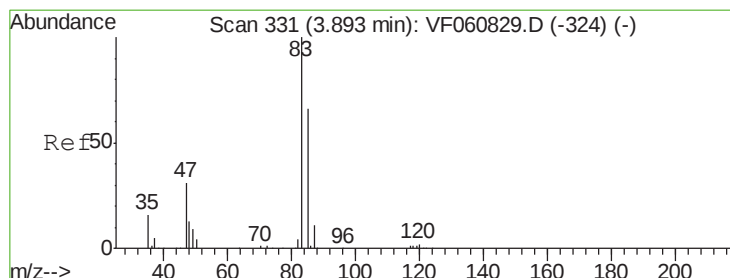
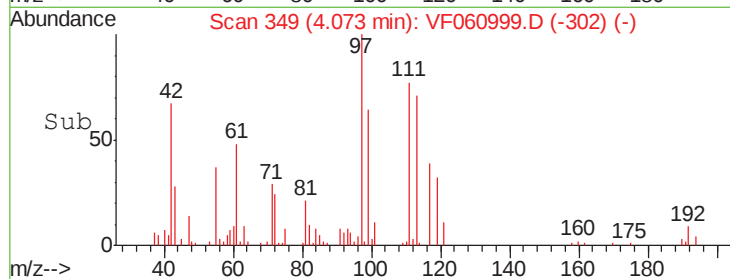
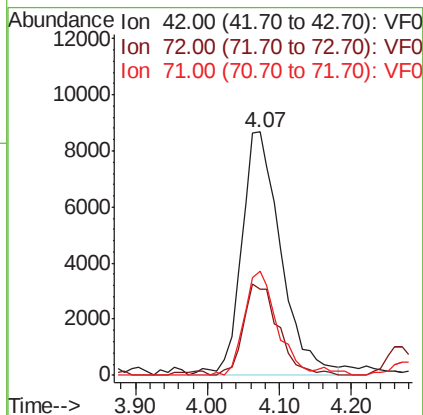
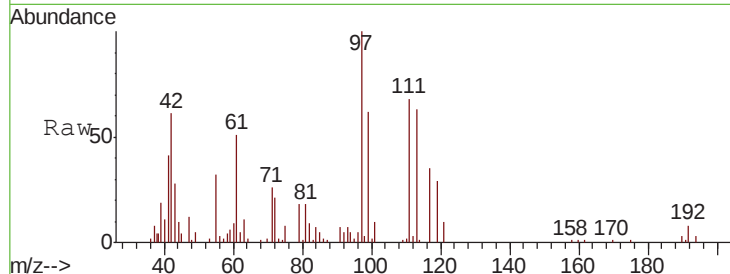
ClientSampleId :

VF1212SBS02

Tot Ion:	42	Resp:	33024
Ion	Ratio	Lower	Upper
42	100		
72	33.4	31.9	47.9
71	35.4	28.7	43.1

Manual Integrations
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#30

Chloroform

Concen: 21.556 ug/l

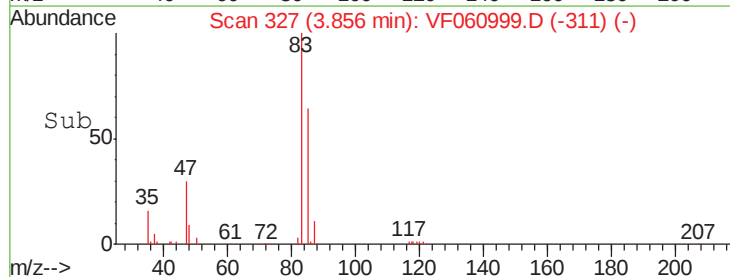
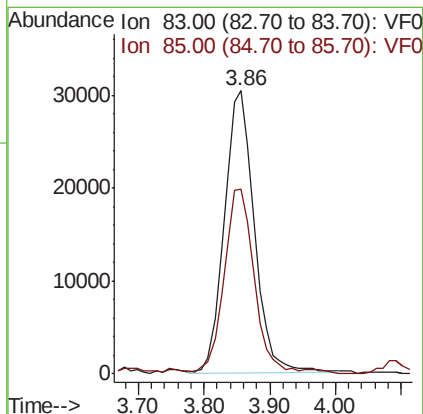
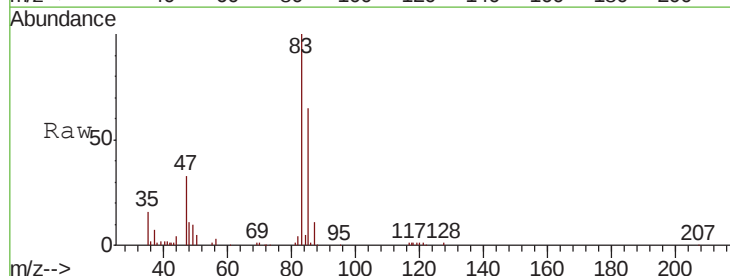
RT: 3.86 min Scan# 327

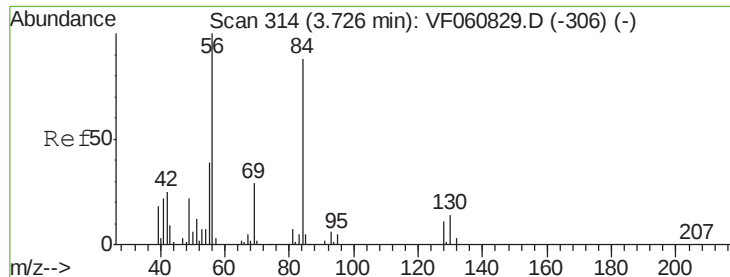
Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Tgt Ion:	83	Resp:	96797
Ion	Ratio	Lower	Upper
83	100		
85	65.3	53.4	80.2





#31

Cyclohexane

Concen: 21.549 ug/l m

RT: 3.68 min Scan# 309

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 56 Resp: 65250

Ion Ratio Lower Upper

56 100

69 28.3 23.0 34.4

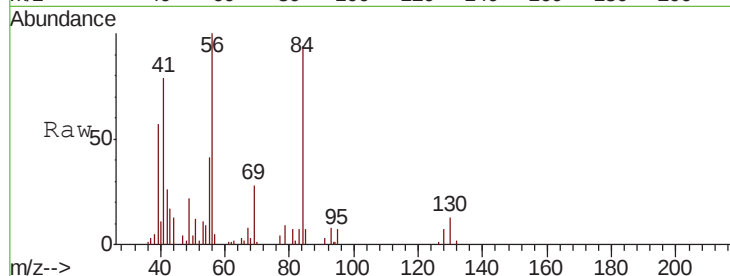
84 93.7 70.4 105.6

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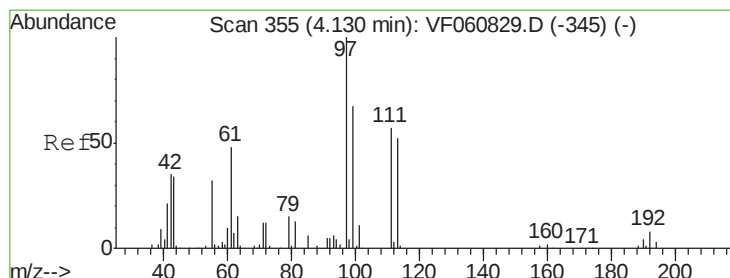
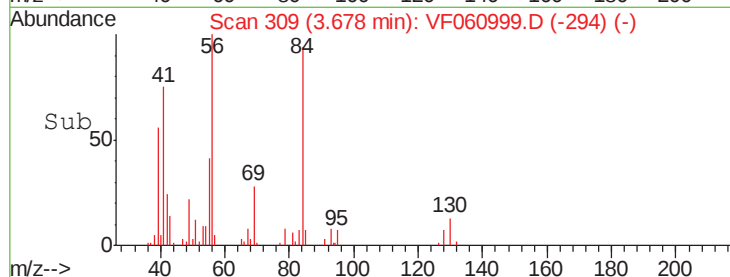
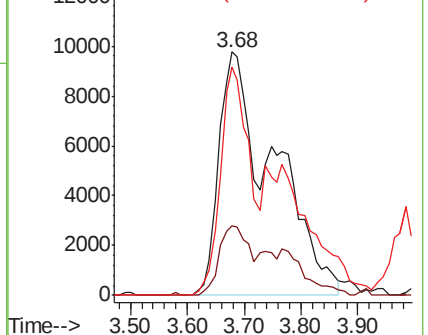
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Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 19.395 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

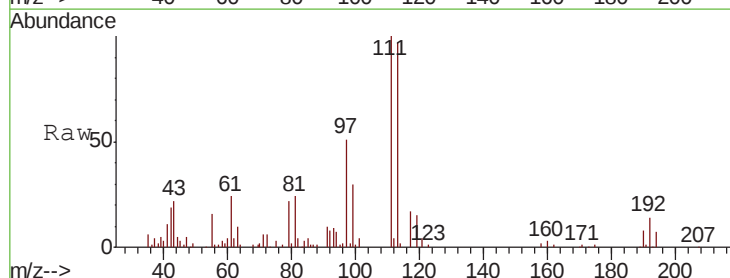
Tgt Ion: 97 Resp: 60399

Ion Ratio Lower Upper

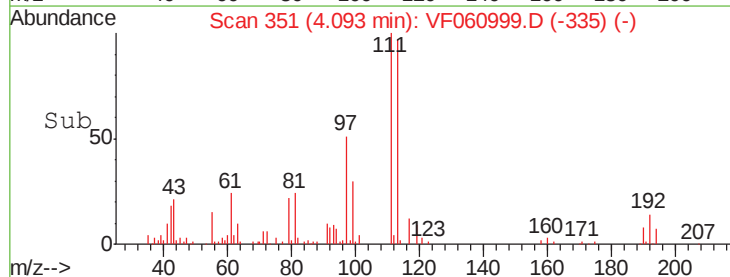
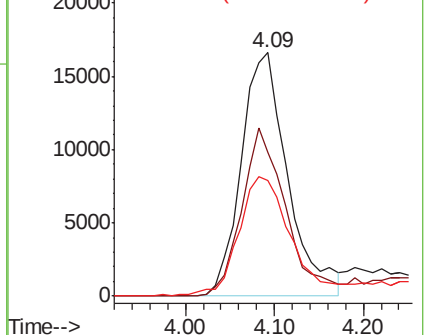
97 100

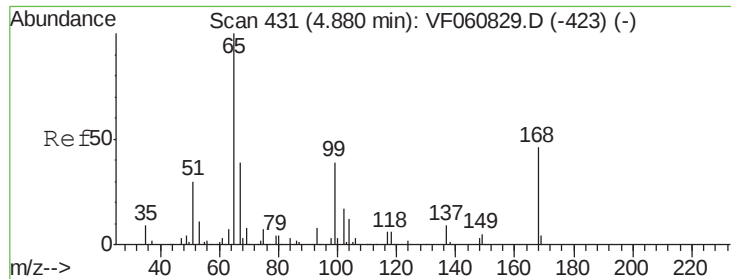
99 59.2 53.5 80.3

61 47.5 38.6 58.0



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#33

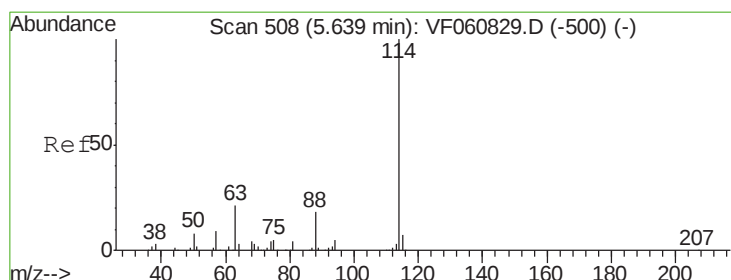
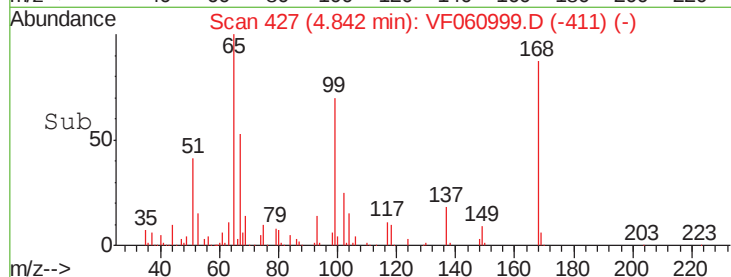
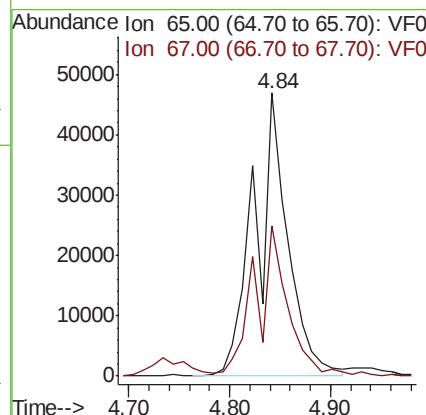
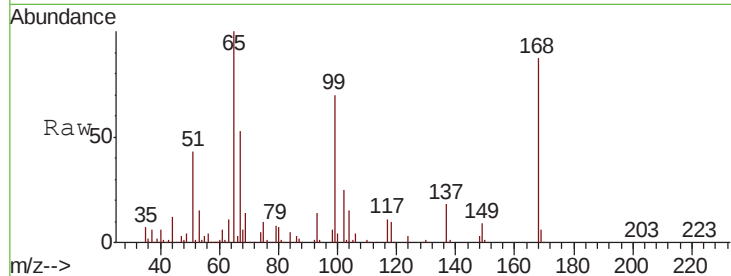
1,2-Dichloroethane-d4
Concen: 48.856 ug/l
RT: 4.84 min Scan# 427
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion: 65 Resp: 105064
Ion Ratio Lower Upper
65 100
67 53.2 0.0 96.4

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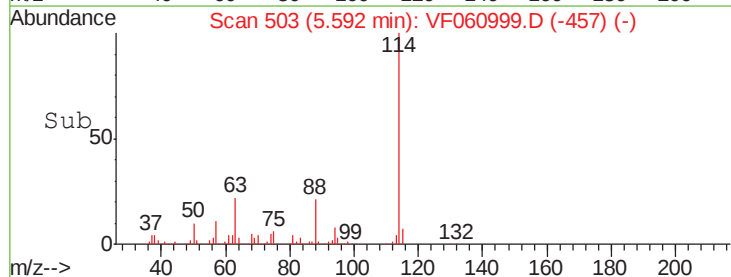
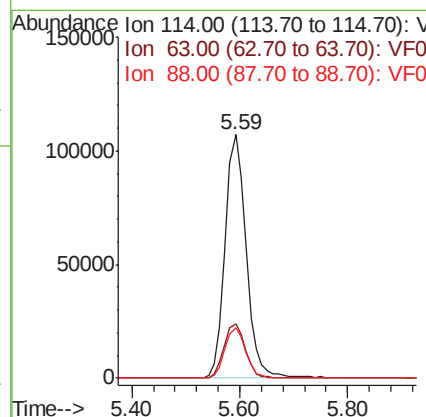
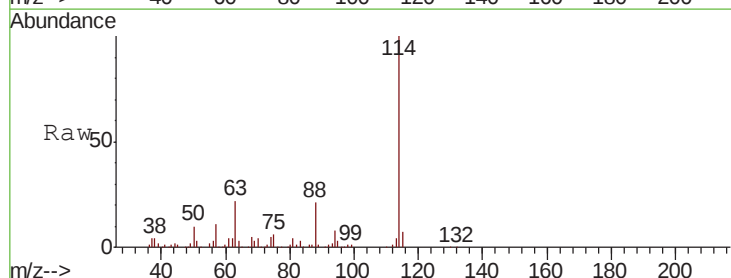
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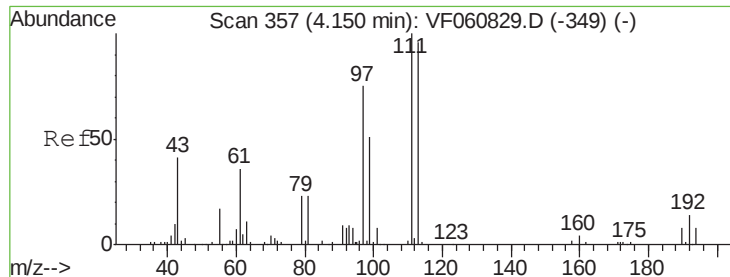


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.59 min Scan# 503
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 114 Resp: 290861
Ion Ratio Lower Upper
114 100
63 22.1 0.0 41.6
88 20.5 0.0 36.6





#35

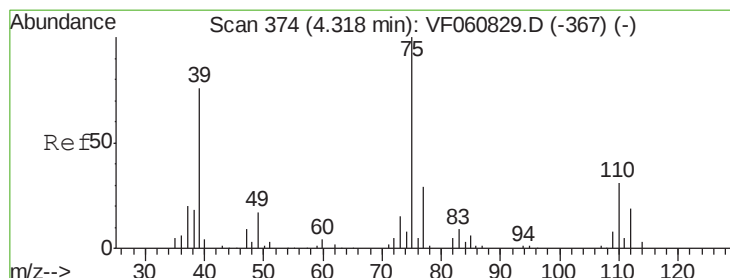
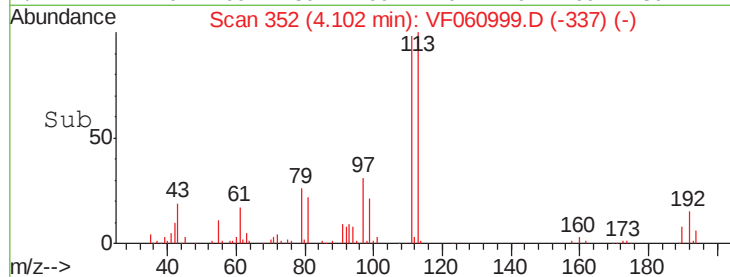
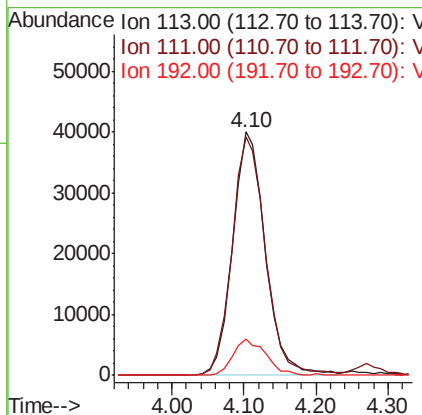
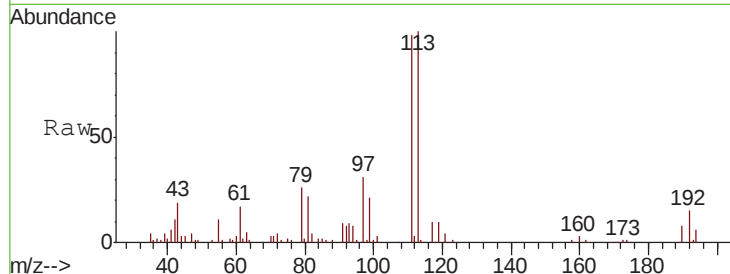
Dibromofluoromethane
 Concen: 54.864 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion	Ratio	Lower	Upper
113	100		
111	98.2	83.0	124.6
192	15.1	12.3	18.5

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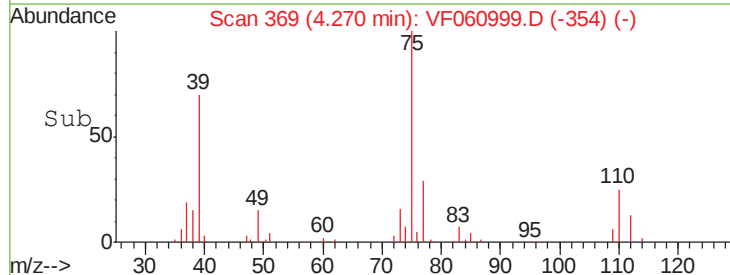
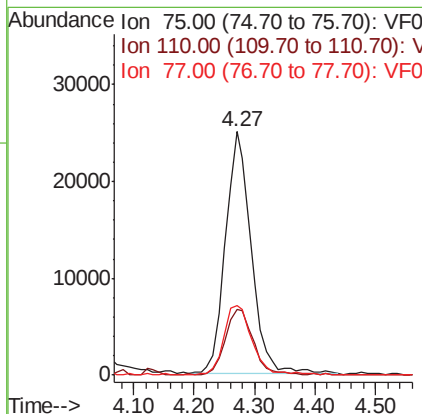
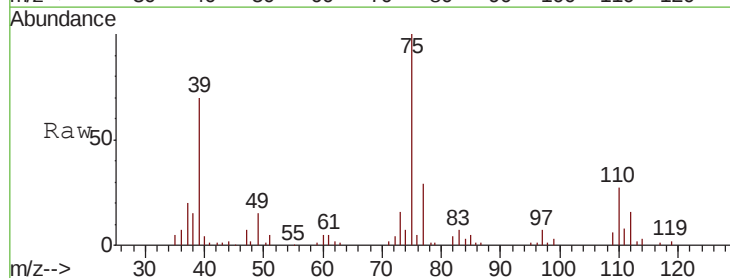
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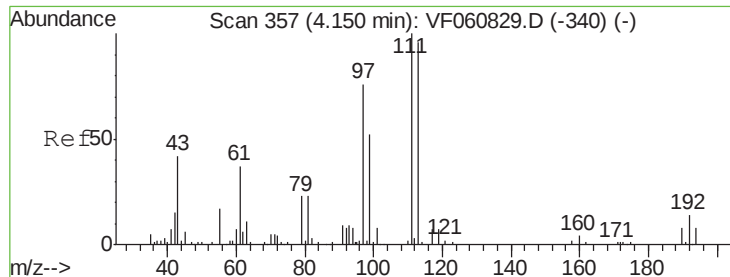


#36

1,1-Dichloropropene
 Concen: 23.091 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	27.0	15.6	46.8
77	28.7	23.4	35.0





#37

Ethyl Acetate

Concen: 23.420 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 43 Resp: 30704

Ion Ratio Lower Upper

43 100

61 89.3 68.6 103.0

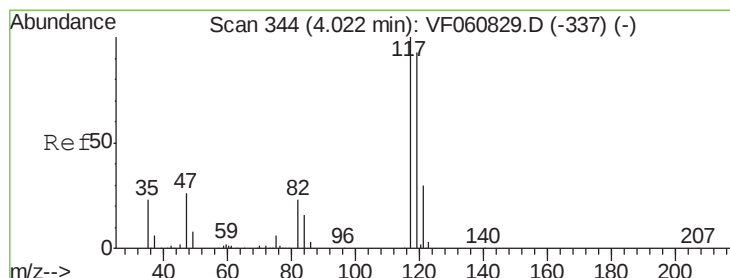
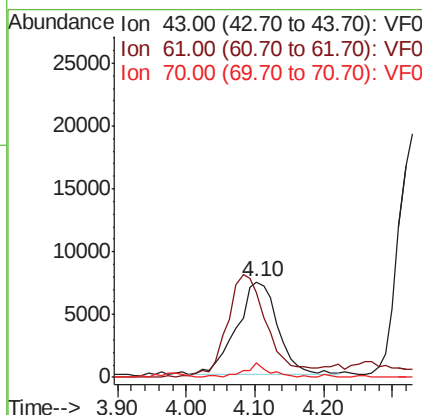
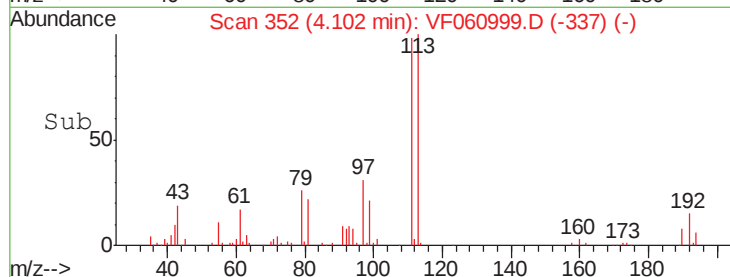
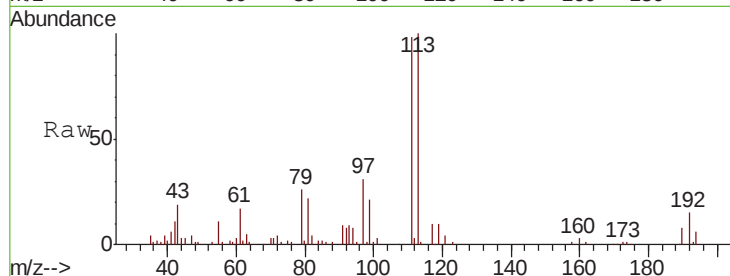
70 14.7 9.0 13.4#

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#38

Carbon Tetrachloride

Concen: 20.828 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

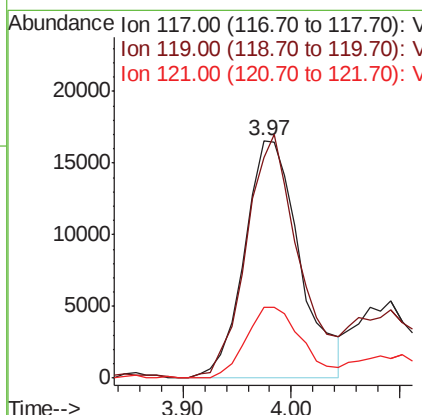
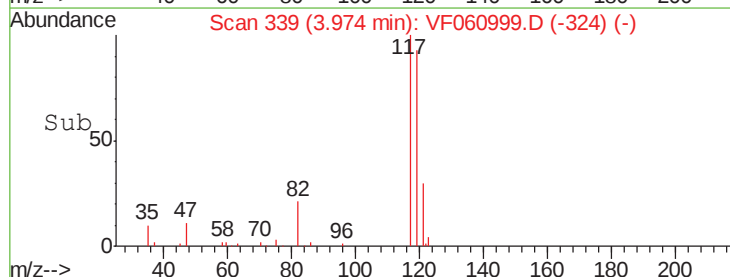
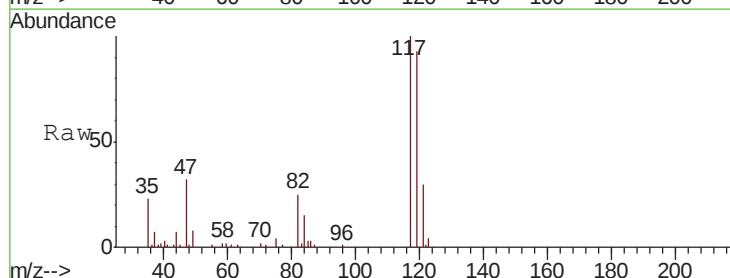
Tgt Ion: 117 Resp: 59348

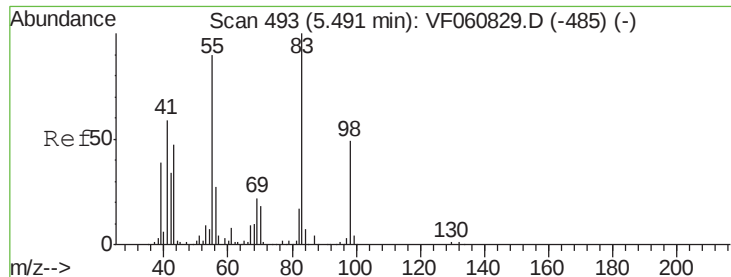
Ion Ratio Lower Upper

117 100

119 93.0 74.4 111.6

121 30.0 23.5 35.3





#39

Methylvlcvclohexane

Concen: 20.509 ug/l

RT: 5.44 min Scan# 488

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 83 Resp: 69340

Ion Ratio Lower Upper

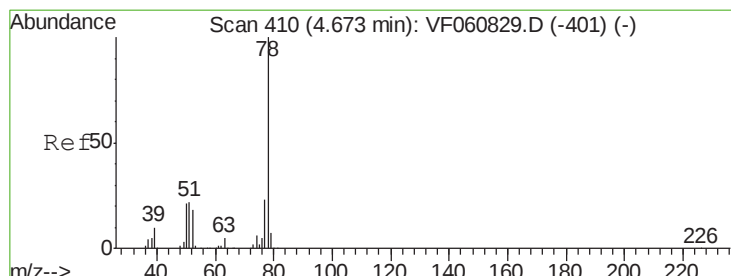
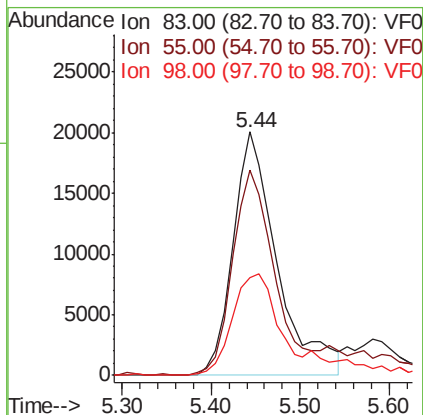
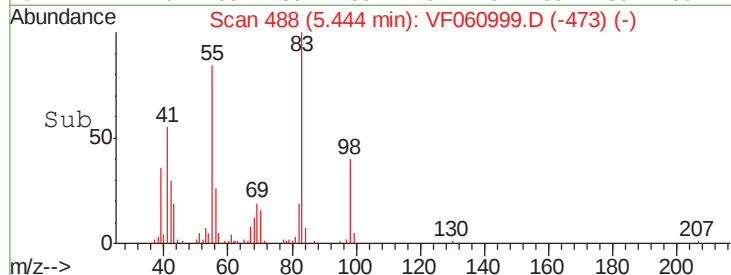
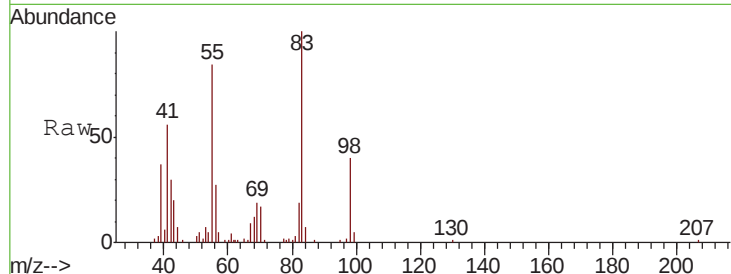
83 100

55 84.4 72.1 108.1

98 40.3 39.1 58.7

Manual Integrations
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#40

Benzene

Concen: 22.342 ug/l

RT: 4.63 min Scan# 405

Delta R.T. -0.05 min

Lab File: VF060999.D

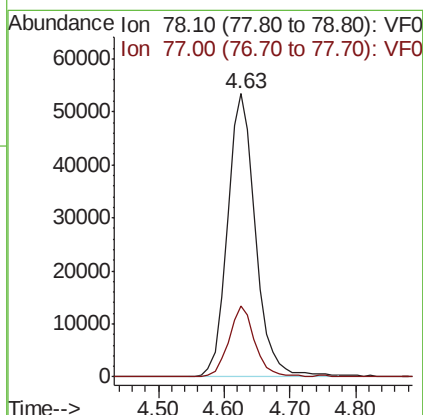
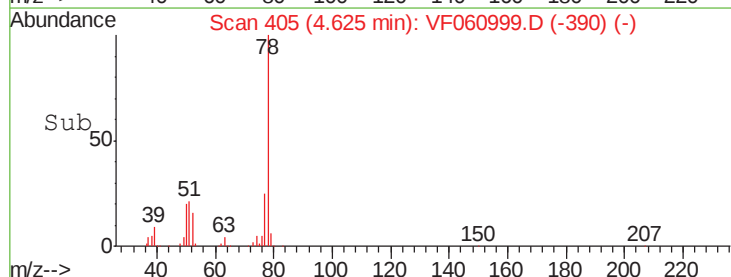
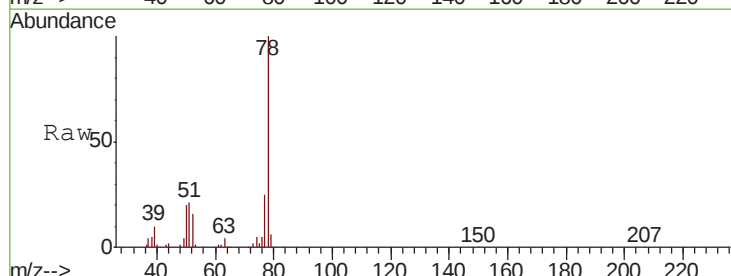
Acq: 12 Dec 2018 16:49

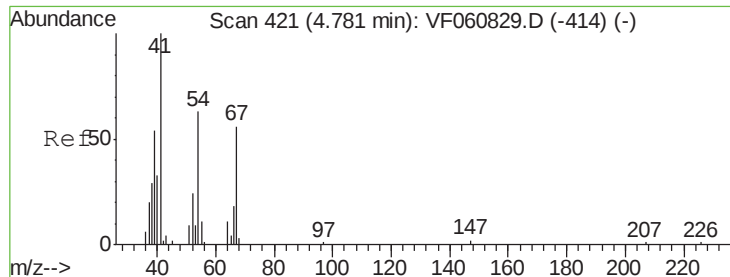
Tgt Ion: 78 Resp: 159232

Ion Ratio Lower Upper

78 100

77 25.0 18.7 28.1





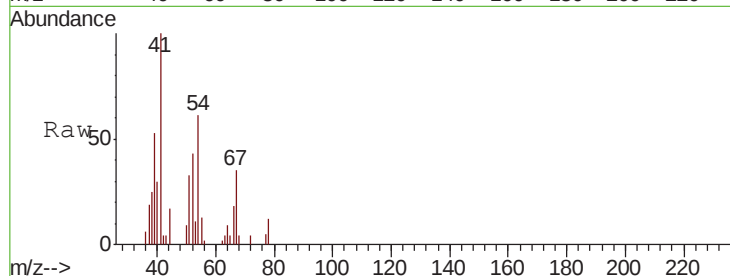
#41
Methacrylonitrile
Concen: 22.849 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

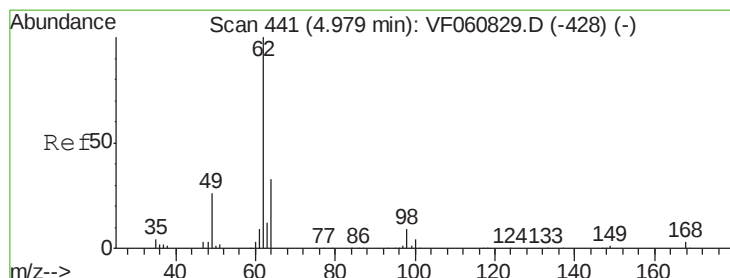
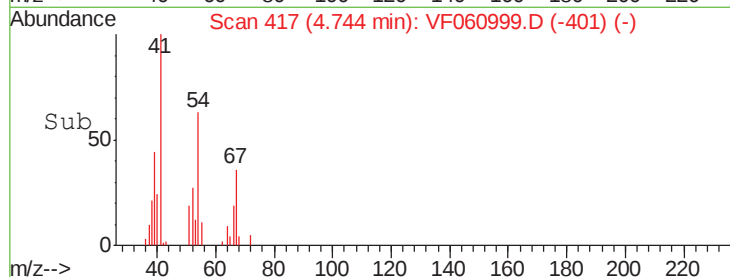
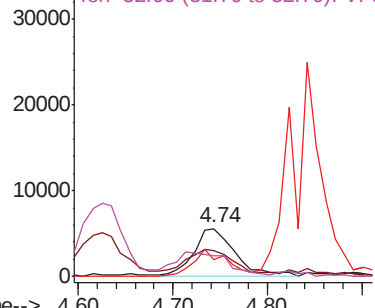
Tot Ion: 41 Resp: 16939
Ion Ratio Lower Upper
41 100
39 53.1 53.0 79.6
67 34.8 43.8 65.6#
52 42.6 37.8 56.8

Manual Integrations
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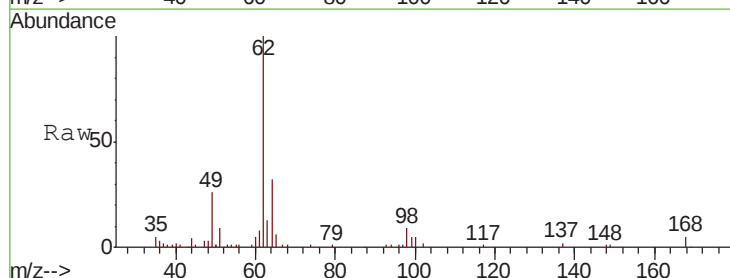


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

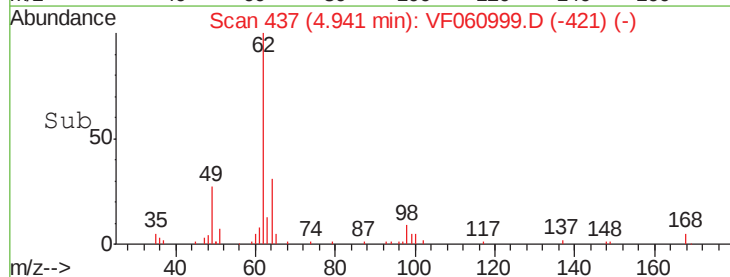
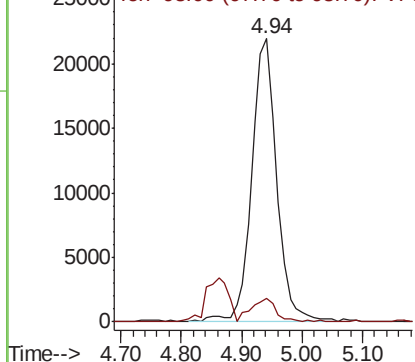


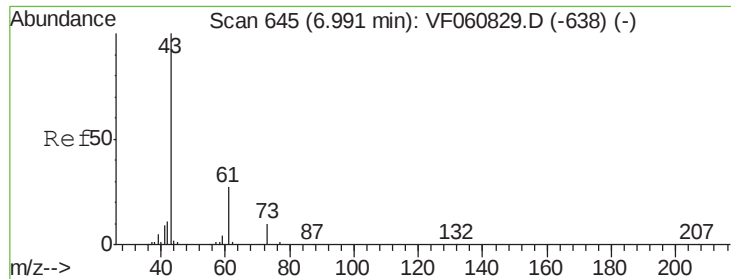
#42
1,2-Dichloroethane
Concen: 24.243 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 62 Resp: 63081
Ion Ratio Lower Upper
62 100
98 8.5 0.0 17.2



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0





#43

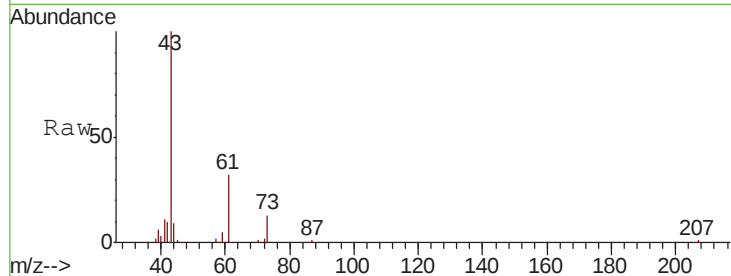
Isopropyl Acetate
 Concen: 20.861 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

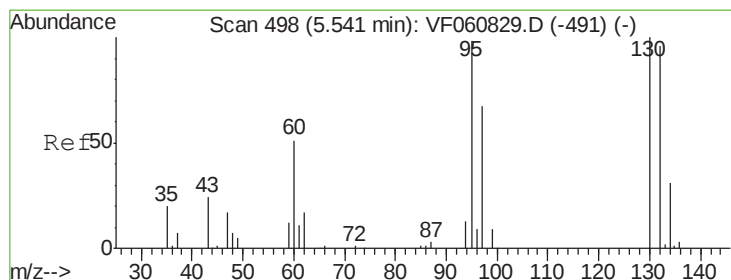
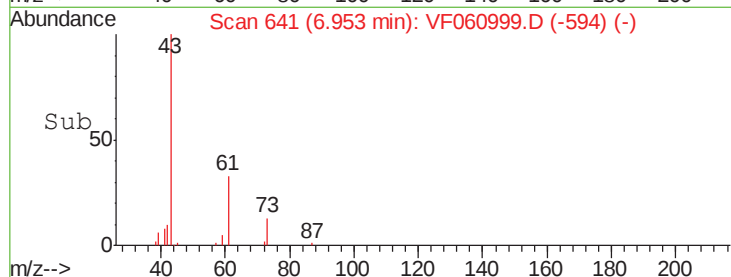
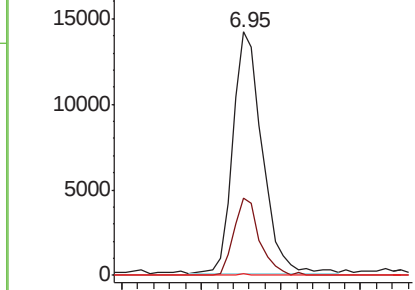
Tot Ion	Ratio	Lower	Upper
43	100		
61	31.5	21.4	32.0
87	0.8	0.2	0.4

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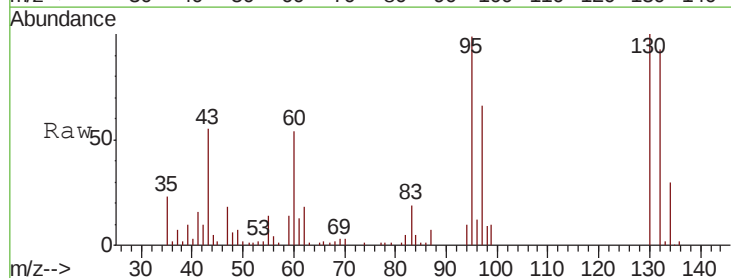
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



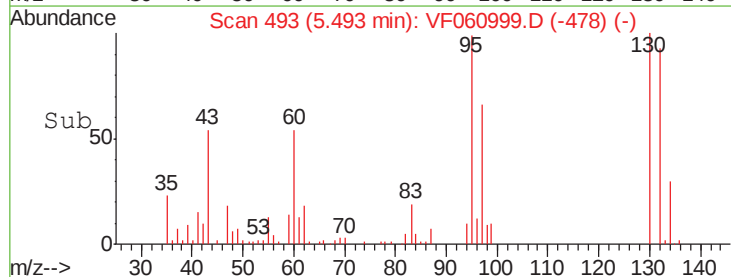
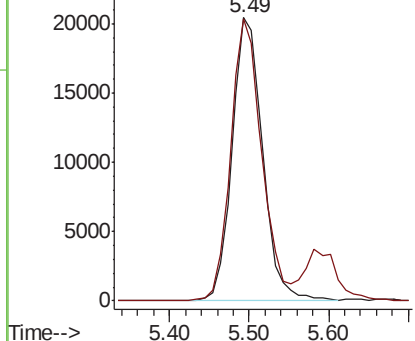
#44

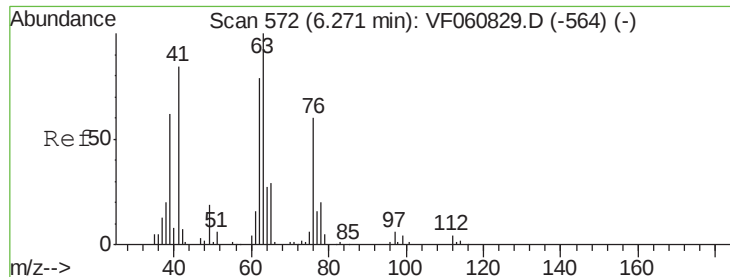
Trichloroethene
 Concen: 23.398 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	195.6



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 22.538 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 63 Resp: 41718

Ion Ratio Lower Upper

63 100

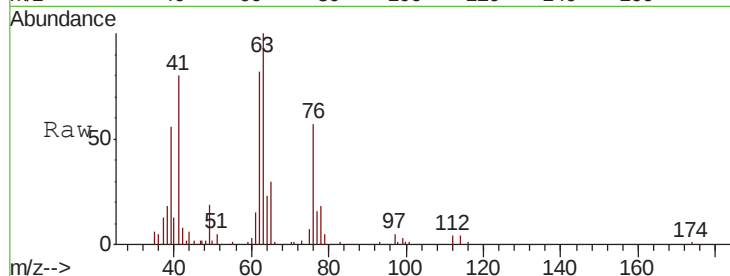
65 29.7 23.2 34.8

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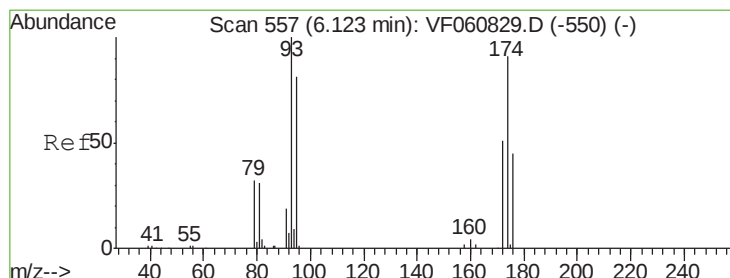
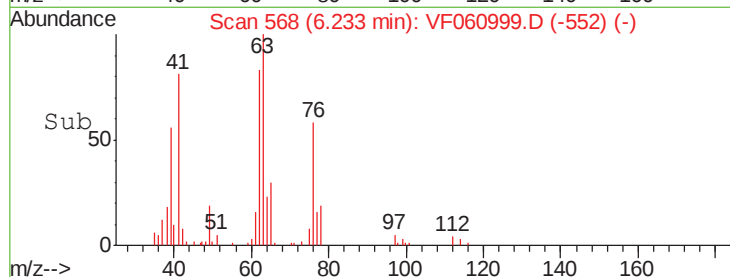
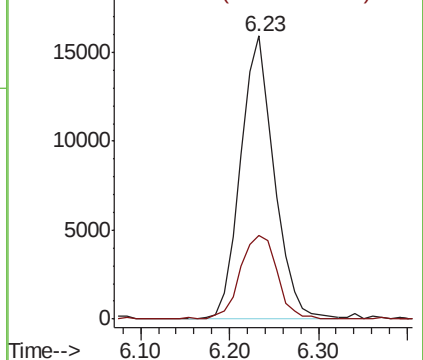
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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 21.838 ug/l

RT: 6.09 min Scan# 553

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

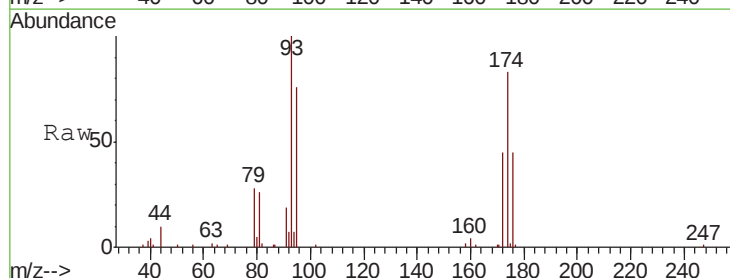
Tgt Ion: 93 Resp: 27421

Ion Ratio Lower Upper

93 100

95 75.7 64.7 97.1

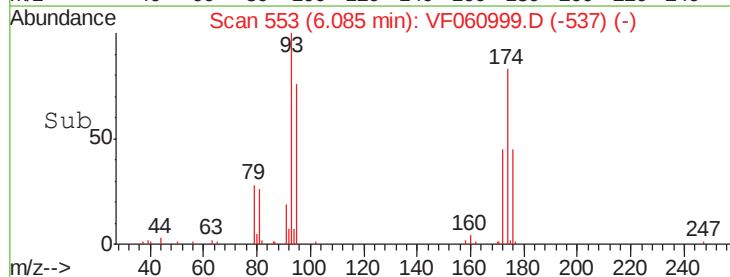
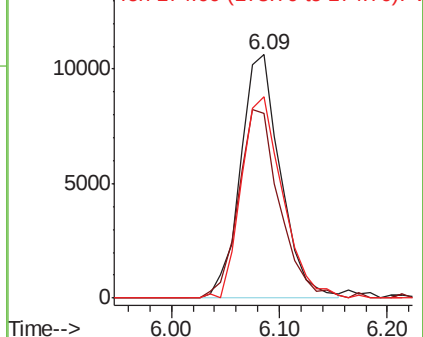
174 82.7 73.0 109.6

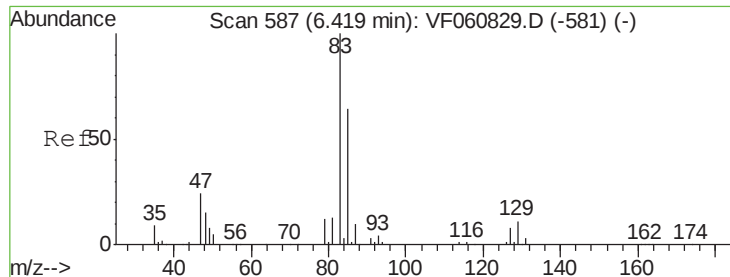


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

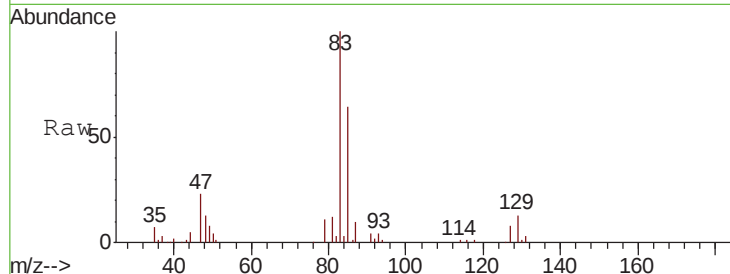
Bromodichloromethane
 Concen: 22.866 ug/l
 RT: 6.38 min Scan# 583
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion	83	Resp	76261
Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.1	76.7
127	8.0	6.8	10.2

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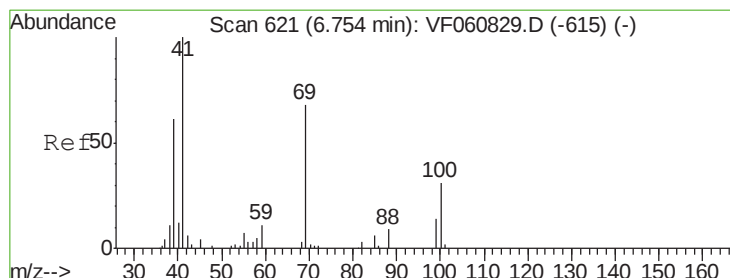
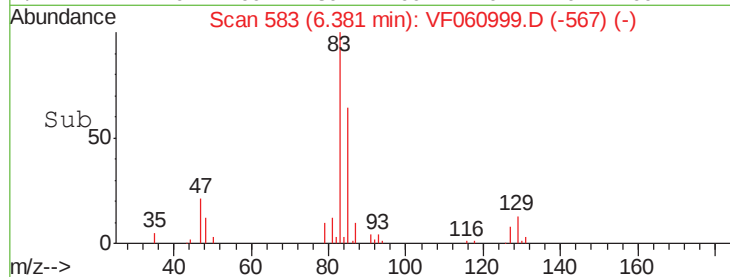
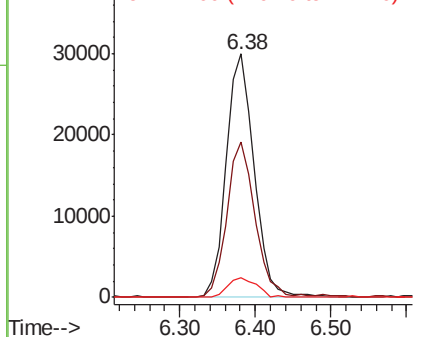


Abundance

Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate
 Concen: 21.186 ug/l
 RT: 6.71 min Scan# 616
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

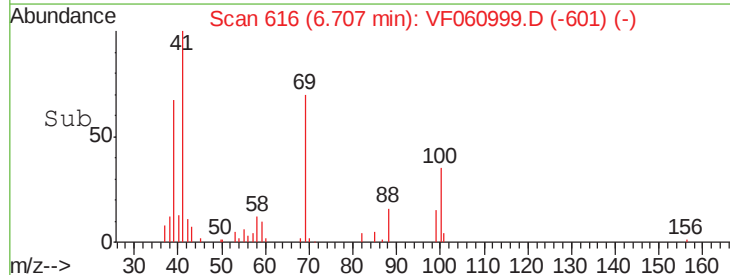
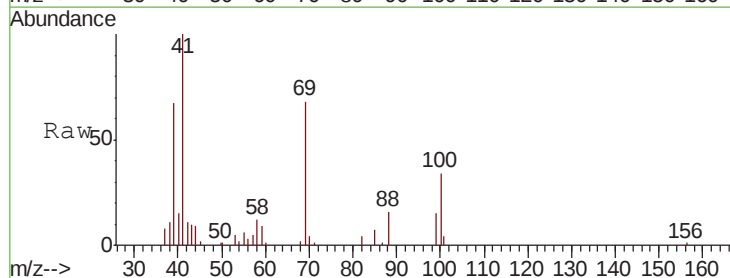
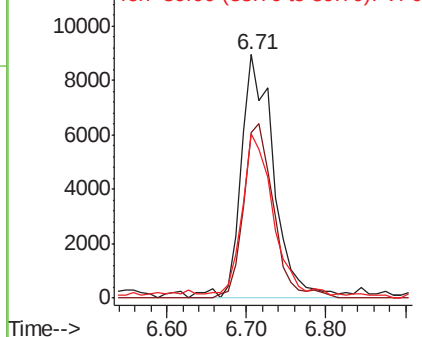
Tgt Ion	41	Resp	25141
Ion	Ratio	Lower	Upper
41	100		
69	68.1	53.9	80.9
39	67.5	49.0	73.6

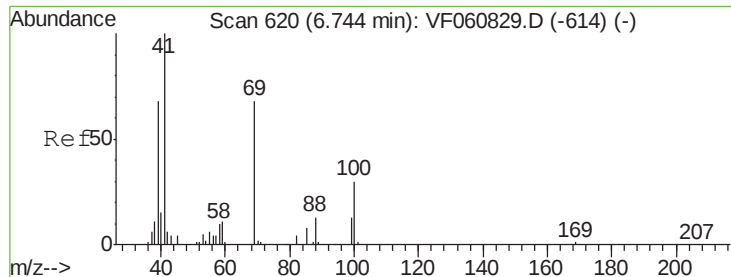
Abundance

Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





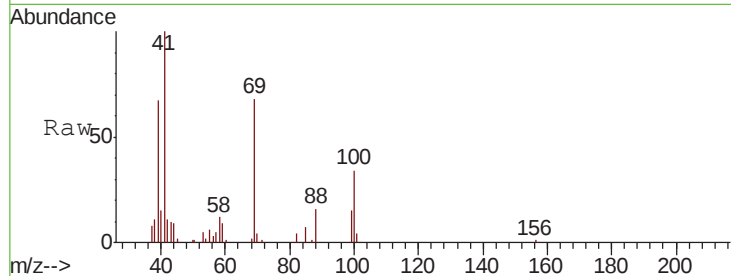
#49
1,4-Dioxane
Concen: 460.675 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

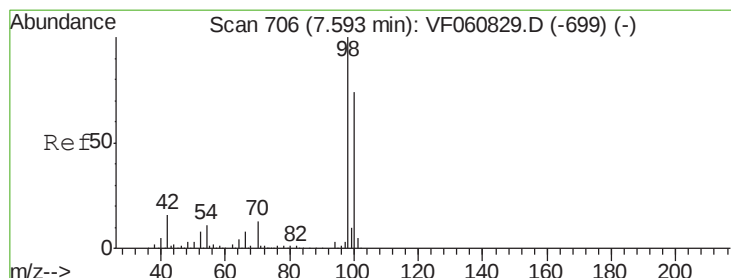
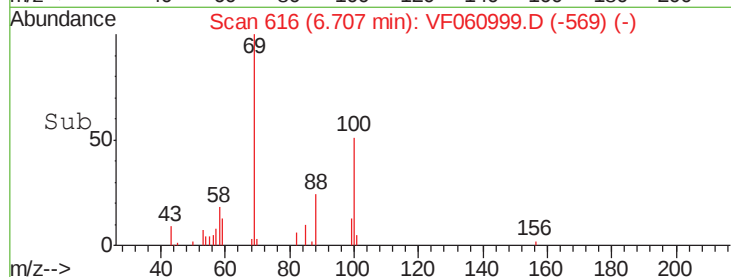
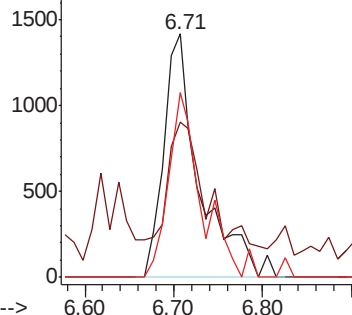
Tot Ion: 88 Resp: 4001
Ion Ratio Lower Upper
88 100
43 63.7 42.0 63.0#
58 75.8 61.8 92.8

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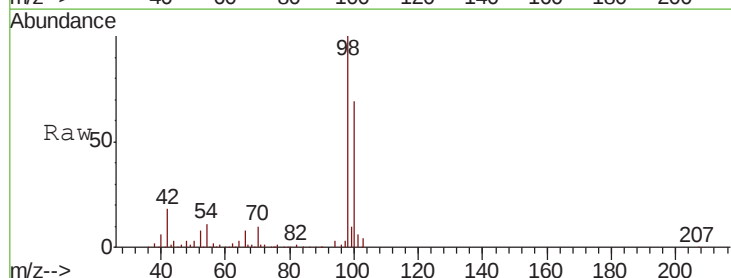


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

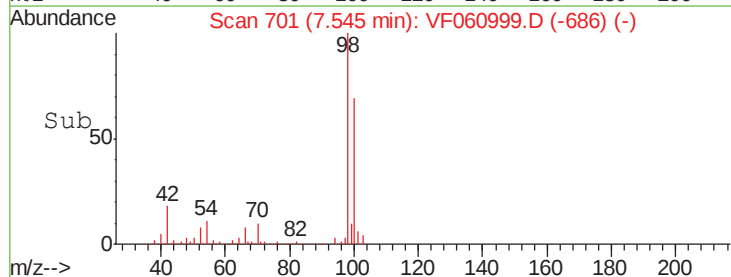
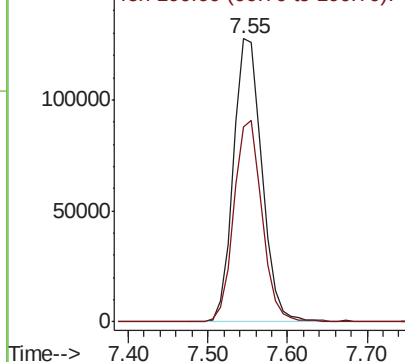


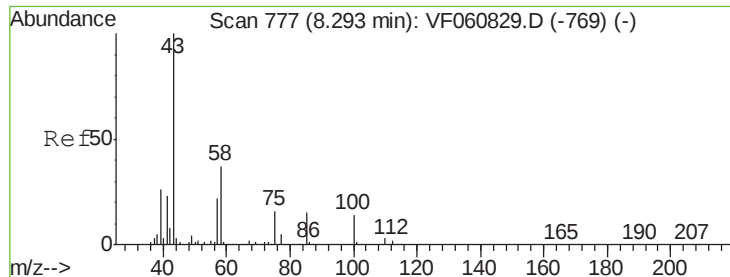
#50
Toluene-d8
Concen: 46.955 ug/l
RT: 7.55 min Scan# 701
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 98 Resp: 319160
Ion Ratio Lower Upper
98 100
100 68.7 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

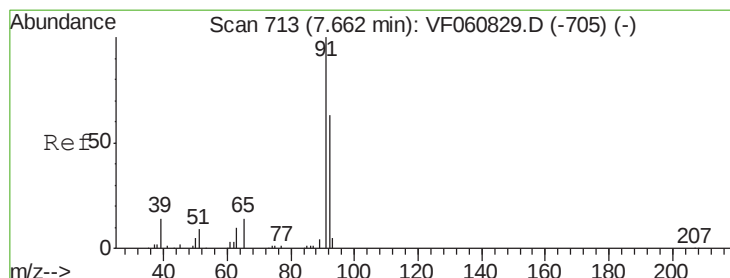
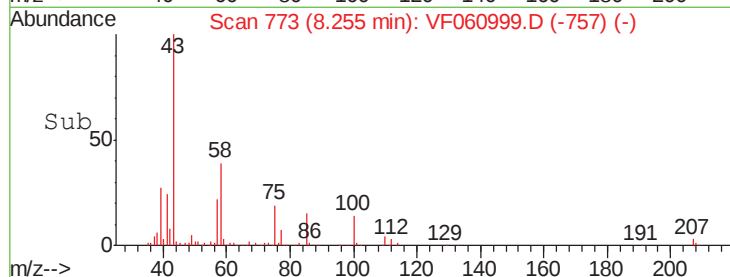
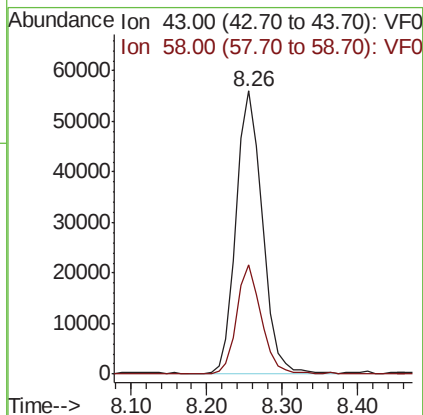
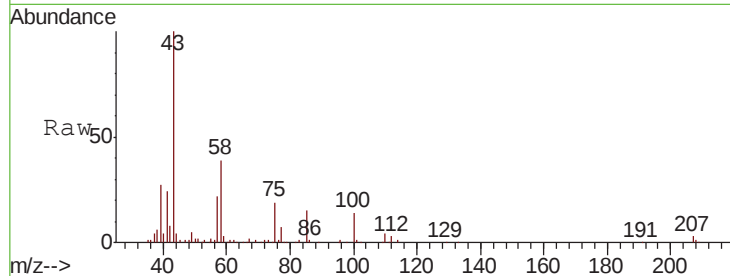
4-Methyl-2-Pentanone
 Concen: 111.733 ug/l
 RT: 8.26 min Scan# 773
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion	43	Resp	135081
Ion Ratio	43	100	
	58	38.7	29.7 44.5

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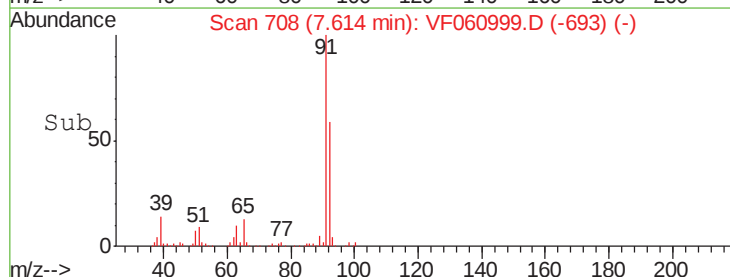
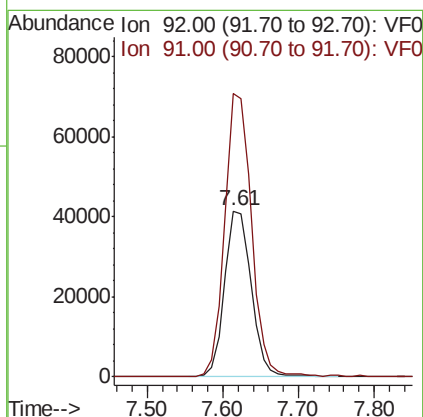
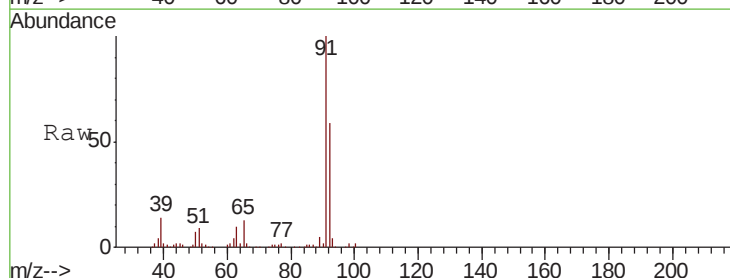
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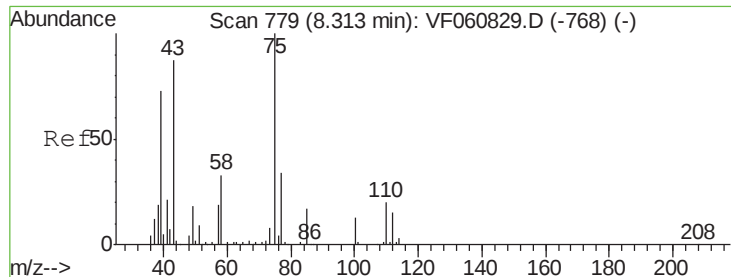


#52

Toluene
 Concen: 20.305 ug/l
 RT: 7.61 min Scan# 708
 Delta R.T. -0.05 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion	92	Resp	101652
Ion Ratio	92	100	
	91	170.8	126.2 189.2





#53

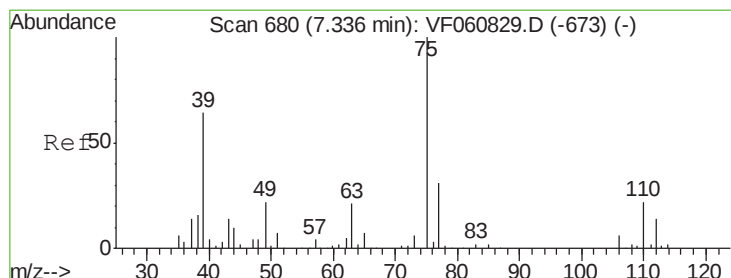
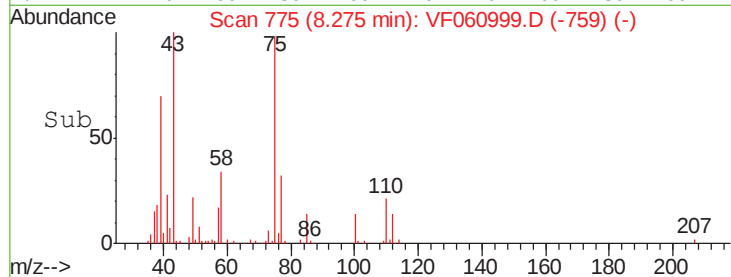
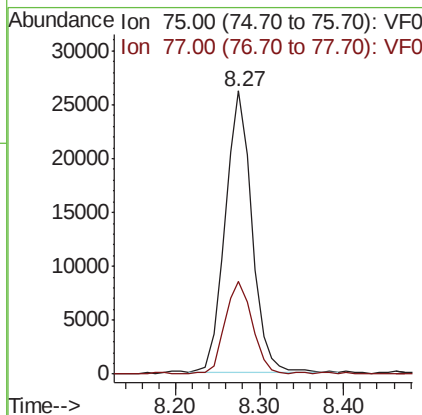
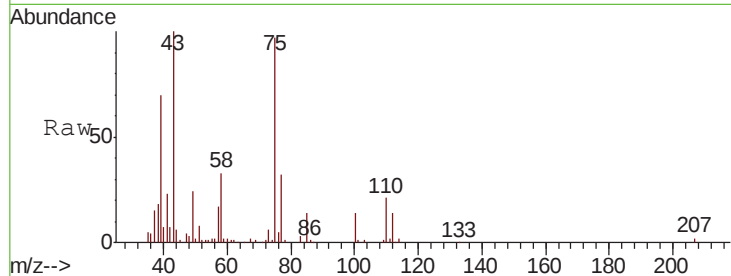
t-1,3-Dichloropropene
 Concen: 21.294 ug/l
 RT: 8.27 min Scan# 775
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion: 75 Resp: 57765
 Ion Ratio Lower Upper
 75 100
 77 32.8 27.4 41.2

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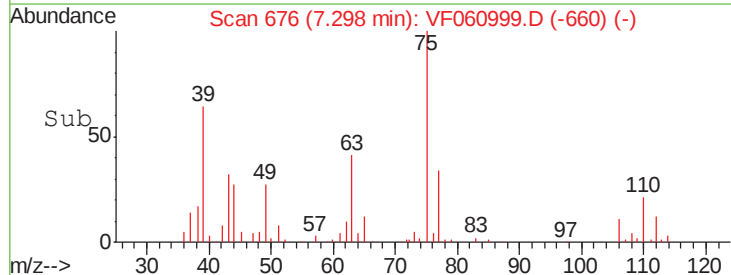
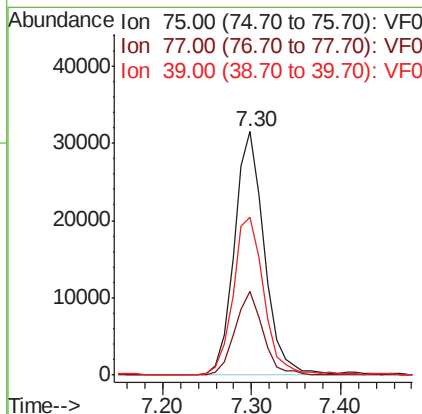
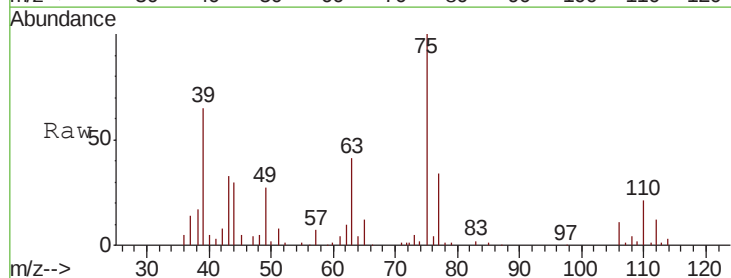
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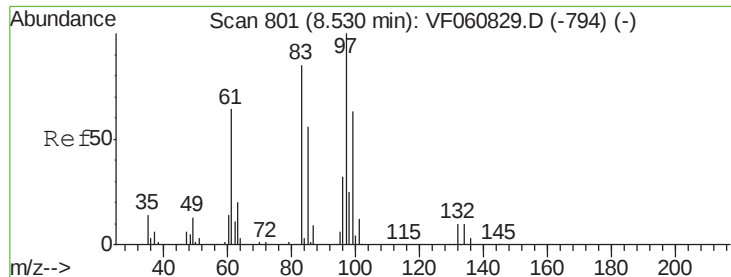


#54

cis-1,3-Dichloropropene
 Concen: 22.101 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion: 75 Resp: 74223
 Ion Ratio Lower Upper
 75 100
 77 34.3 25.0 37.6
 39 65.1 51.1 76.7





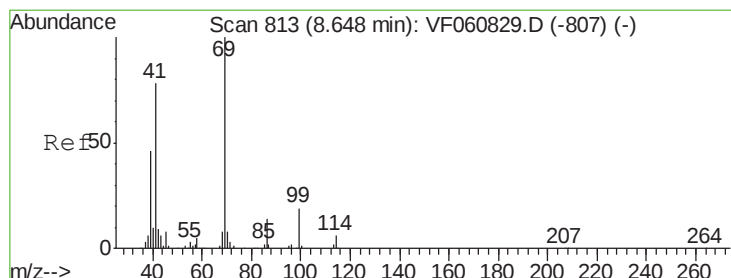
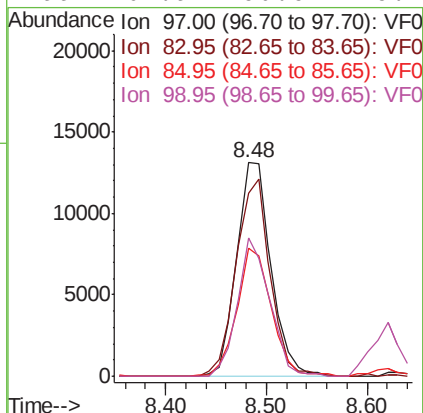
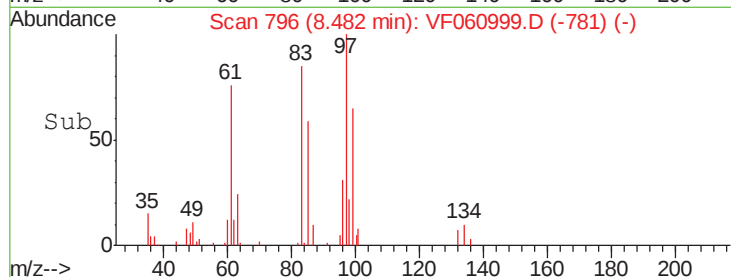
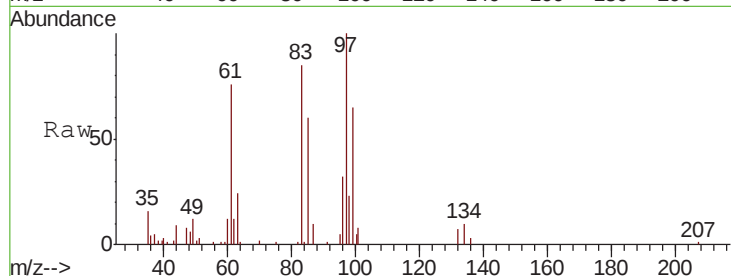
#55
1,1,2-Trichloroethane
Concen: 21.379 ug/l
RT: 8.48 min Scan# 796
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.4	67.8	101.6
85	59.9	45.0	67.6
99	64.9	50.5	75.7

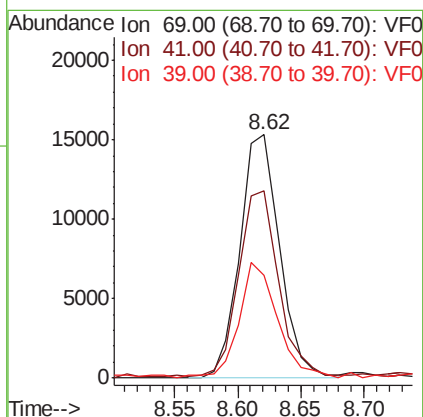
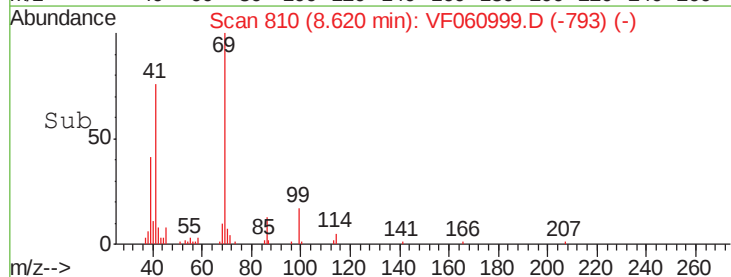
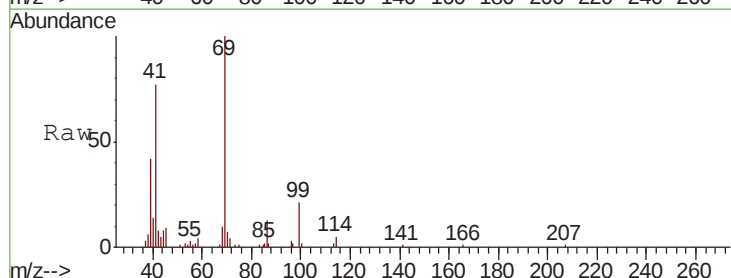
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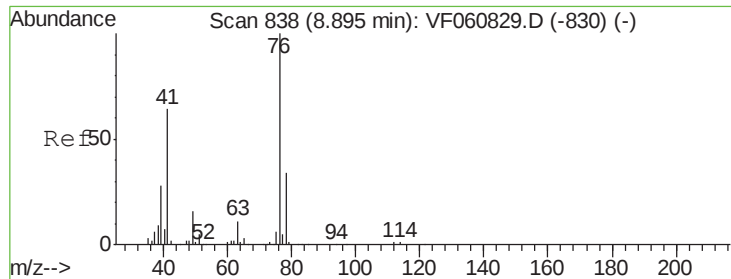
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#56
Ethyl methacrylate
Concen: 20.741 ug/l
RT: 8.62 min Scan# 810
Delta R.T. -0.03 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion	Ratio	Lower	Upper
69	100		
41	77.1	62.6	94.0
39	42.2	37.8	56.6





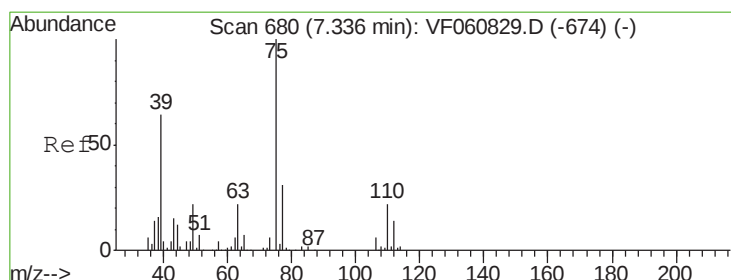
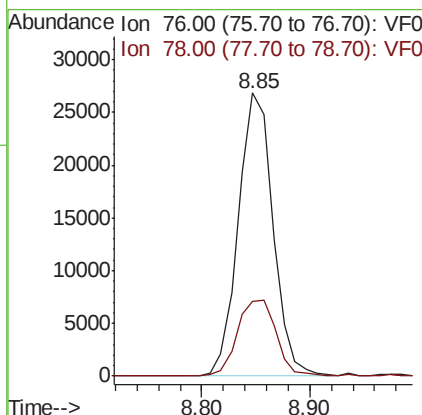
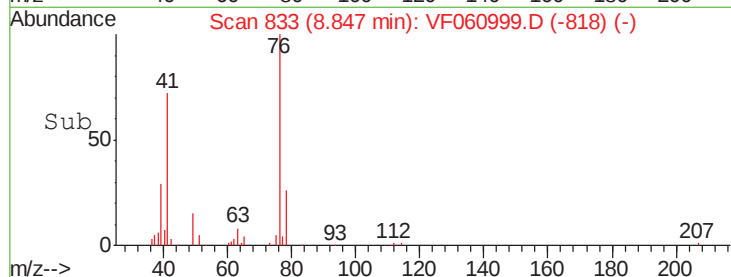
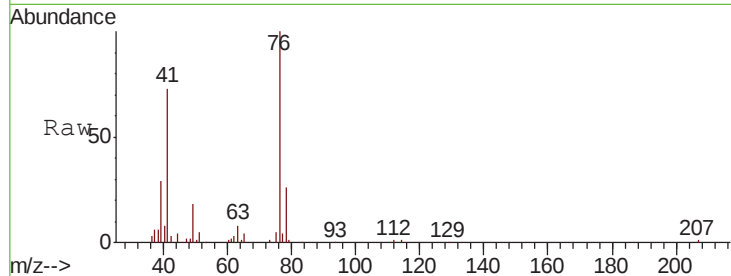
#57
1,3-Dichloropropane
Concen: 23.549 ug/l
RT: 8.85 min Scan# 833
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion: 76 Resp: 60100
Ion Ratio Lower Upper
76 100
78 26.2 27.0 40.4#

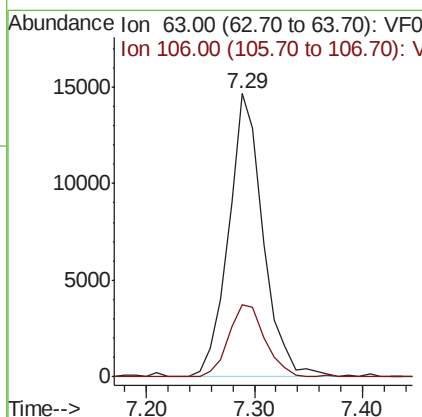
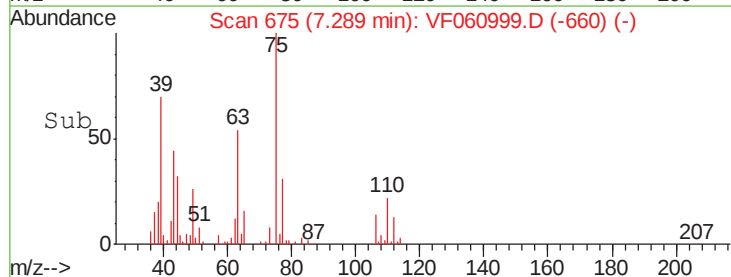
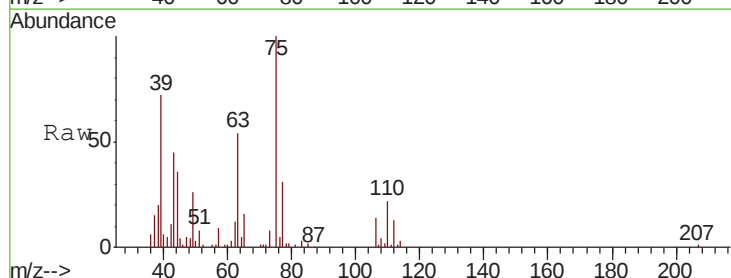
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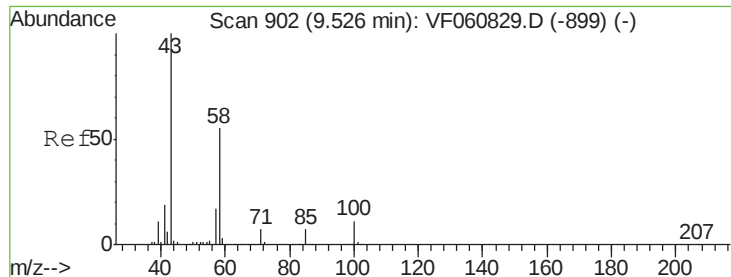
MMDadoda
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#58
2-Chloroethyl Vinyl ether
Concen: 196.347 ug/l
RT: 7.29 min Scan# 675
Delta R.T. -0.05 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 63 Resp: 32545
Ion Ratio Lower Upper
63 100
106 25.4 23.0 34.6





#59

2-Hexanone

Concen: 112.542 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 43 Resp: 95454

Ion Ratio Lower Upper

43 100

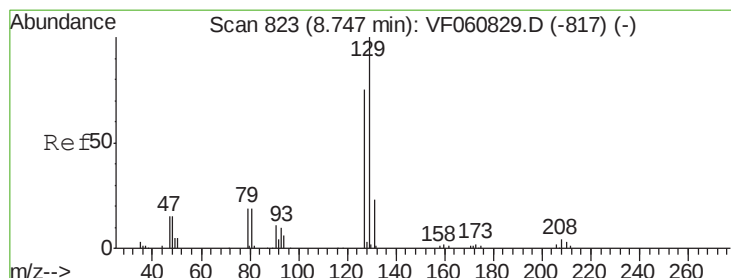
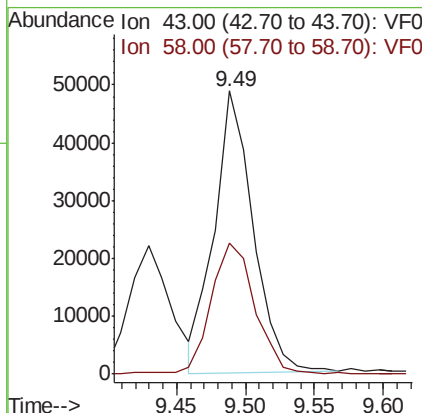
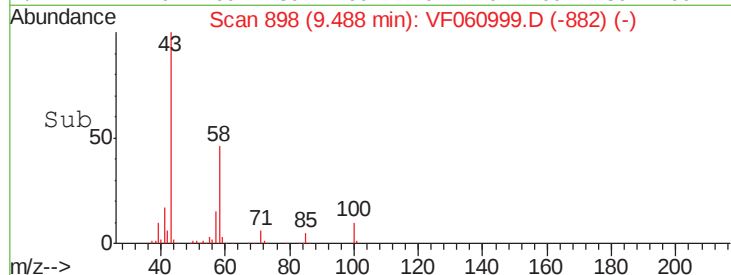
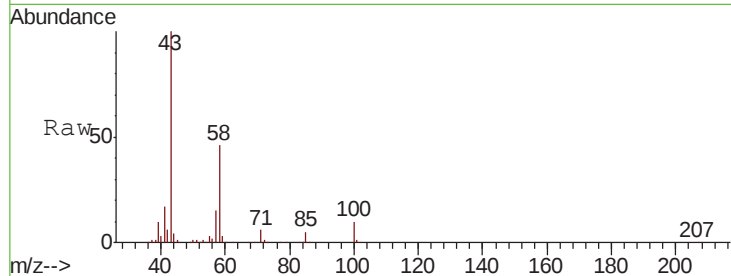
58 46.3 25.6 76.6

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#60

Dibromochloromethane

Concen: 21.145 ug/l

RT: 8.71 min Scan# 819

Delta R.T. -0.04 min

Lab File: VF060999.D

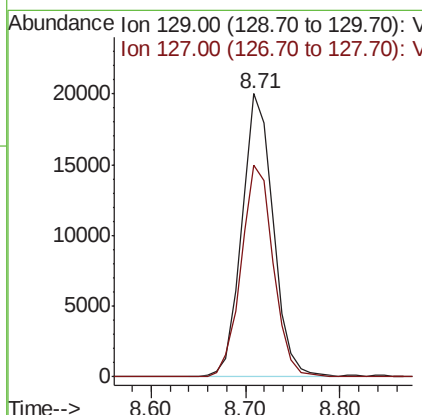
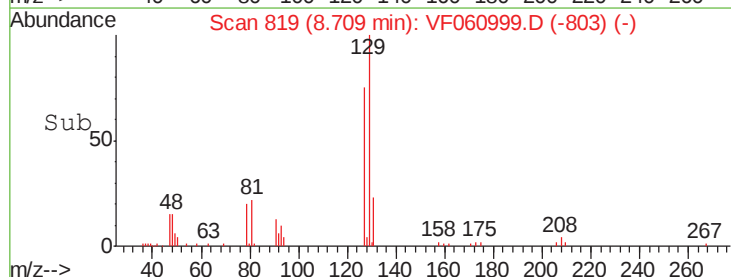
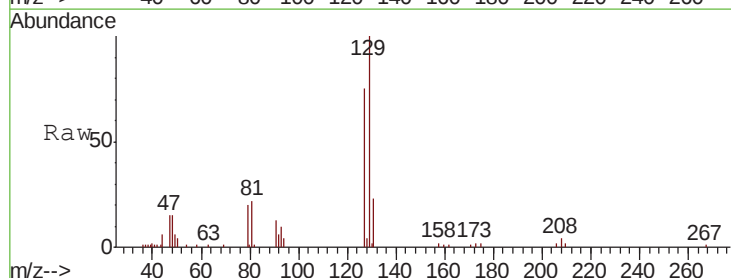
Acq: 12 Dec 2018 16:49

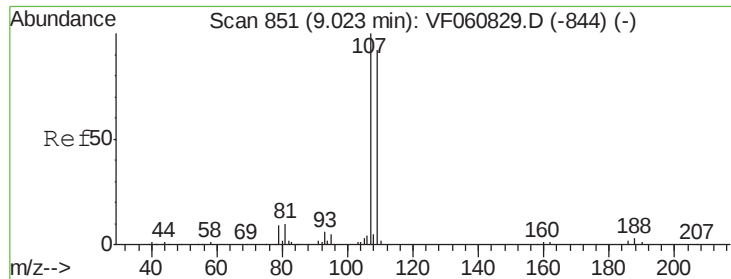
Tgt Ion: 129 Resp: 45959

Ion Ratio Lower Upper

129 100

127 74.7 37.3 111.9





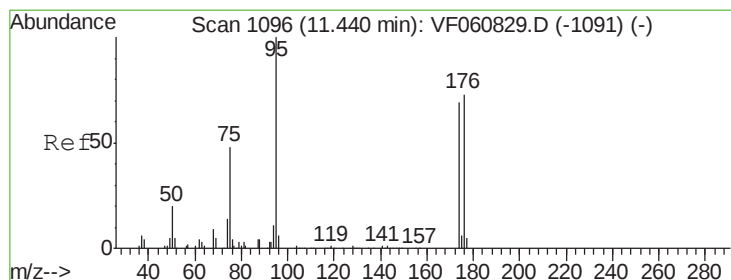
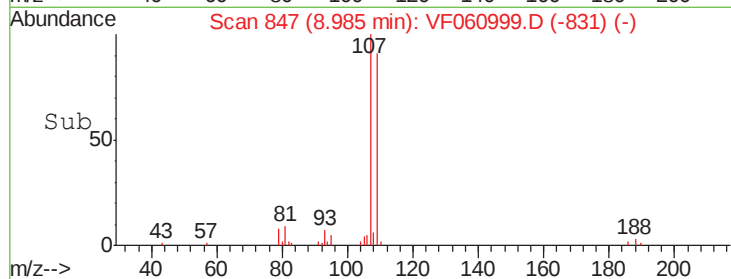
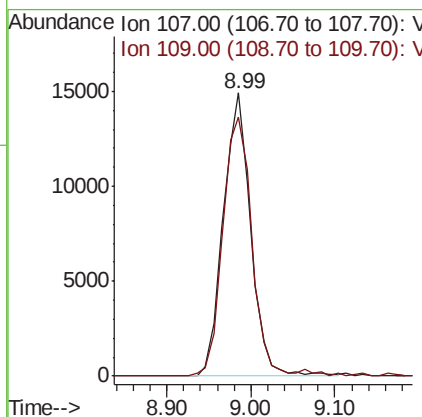
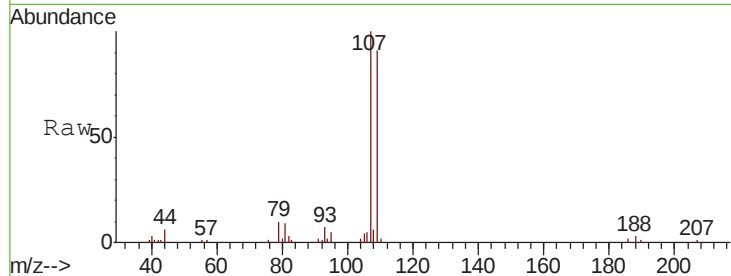
#61
1,2-Dibromoethane
Concen: 21.422 ug/l
RT: 8.99 min Scan# 847
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

Tot Ion:107 Resp: 33758
Ion Ratio Lower Upper
107 100
109 91.5 73.6 110.4

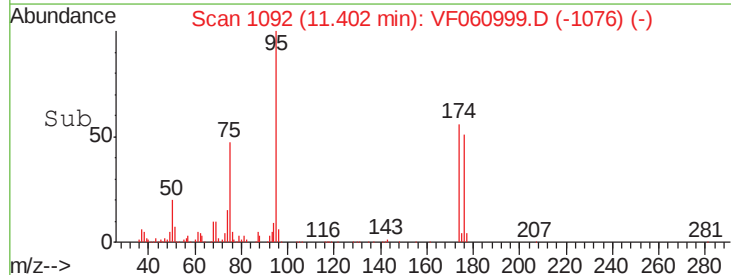
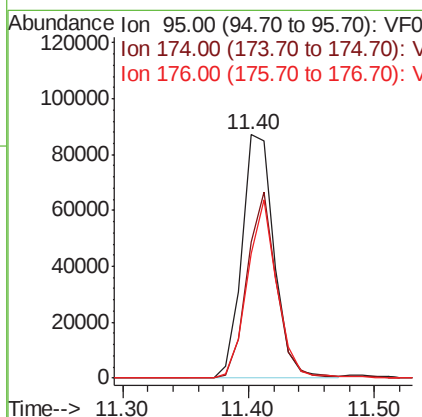
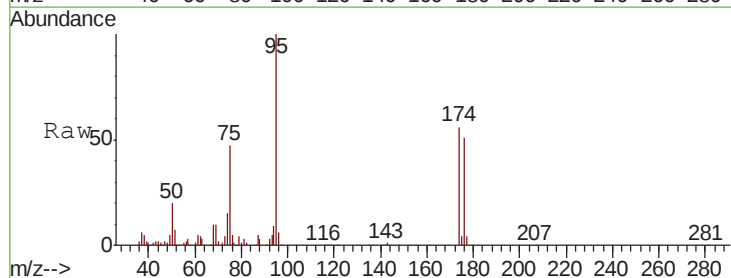
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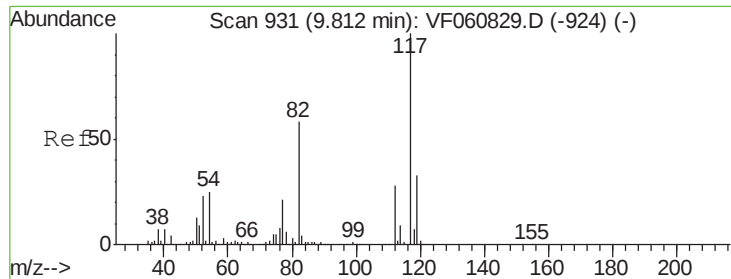
MMDadoda
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#62
4-Bromofluorobenzene
Concen: 50.149 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.04 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion: 95 Resp: 154921
Ion Ratio Lower Upper
95 100
174 56.0 0.0 138.2
176 50.9 0.0 146.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:117 Resp: 273929

Ion Ratio Lower Upper

117 100

82 59.2 46.6 69.8

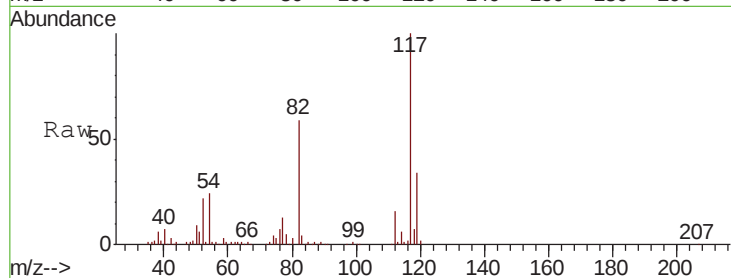
119 33.8 26.4 39.6

Manual Integrations

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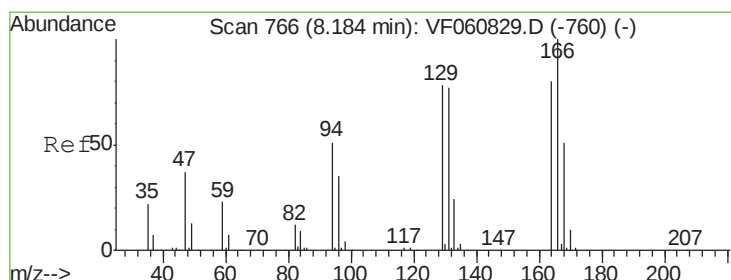
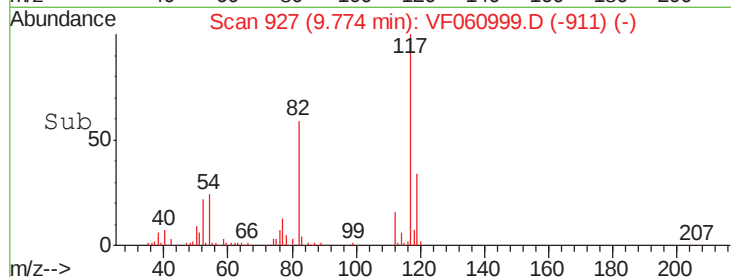
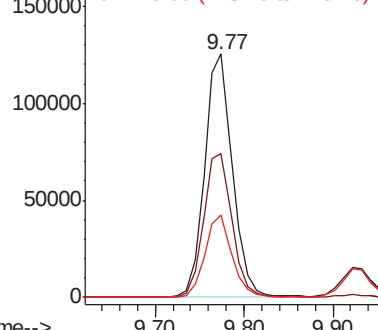
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 21.113 ug/l

RT: 8.15 min Scan# 762

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Tgt Ion:164 Resp: 44174

Ion Ratio Lower Upper

164 100

166 128.3 100.3 150.5

129 97.6 77.9 116.9

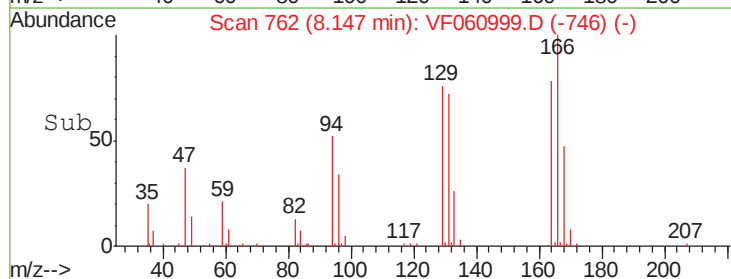
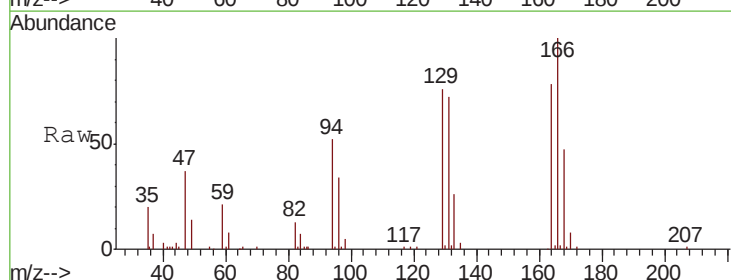
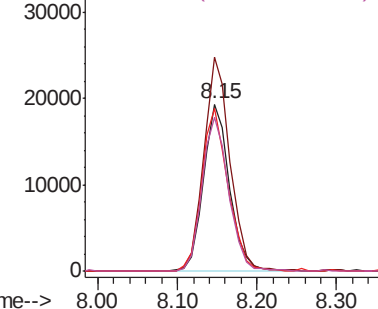
131 92.5 77.5 116.3

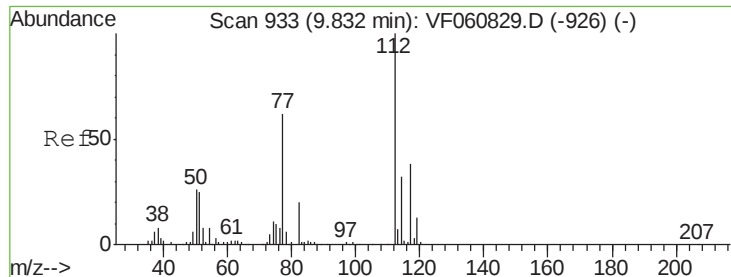
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 22.404 ug/l

RT: 9.79 min Scan# 929

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:112 Resp: 119393

Ion Ratio Lower Upper

112 100

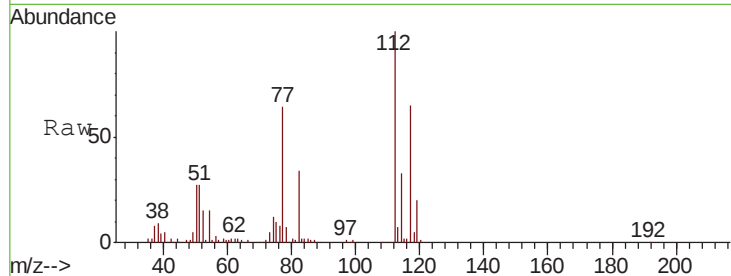
114 33.3 26.0 39.0

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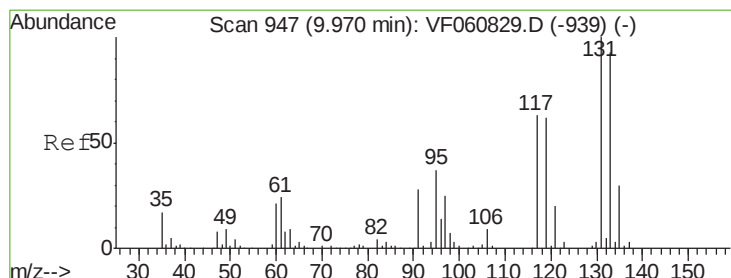
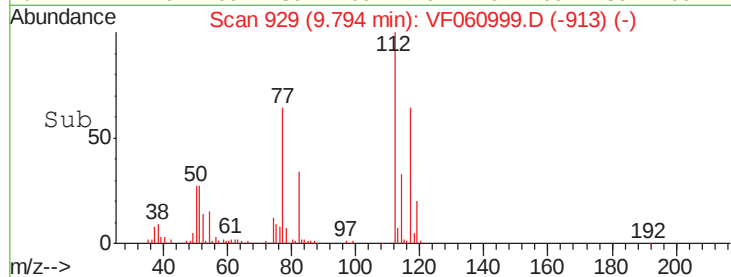
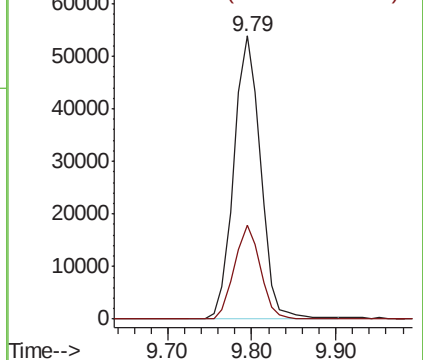
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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.423 ug/l

RT: 9.92 min Scan# 942

Delta R.T. -0.05 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

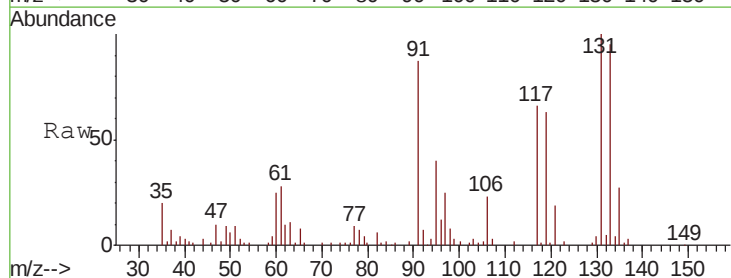
Tgt Ion:131 Resp: 51370

Ion Ratio Lower Upper

131 100

133 95.5 46.5 139.3

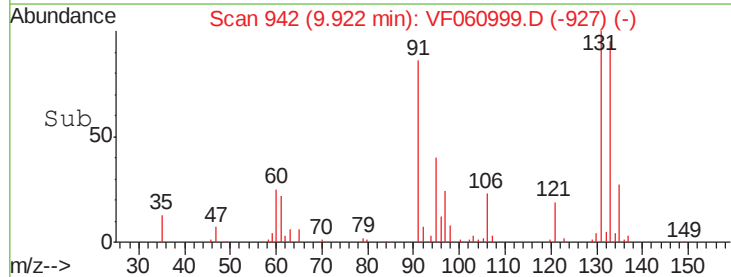
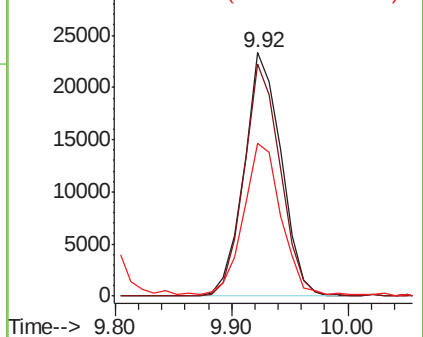
119 62.5 31.1 93.3

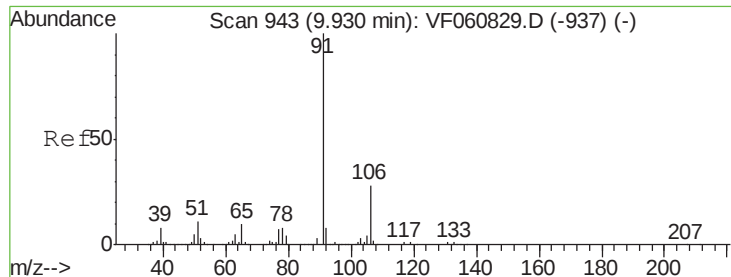


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 22.947 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 91 Resp: 227651

Ion Ratio Lower Upper

91 100

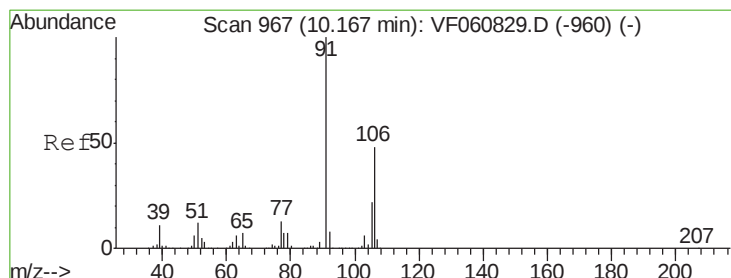
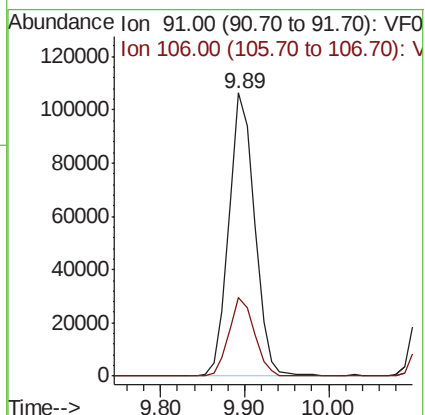
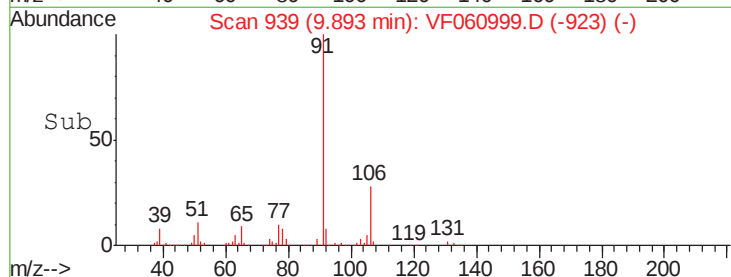
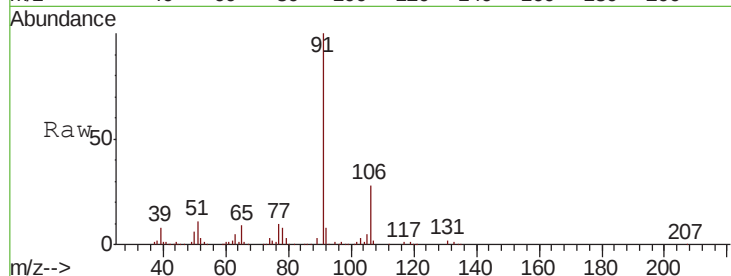
106 27.6 22.2 33.2

Manual Integrations

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#68

m/p-Xylenes

Concen: 43.915 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.04 min

Lab File: VF060999.D

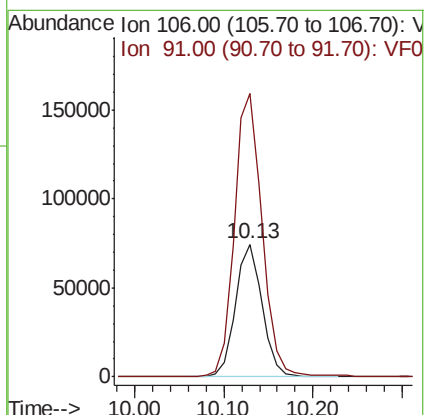
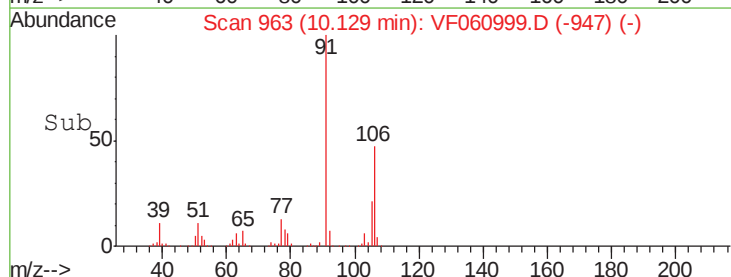
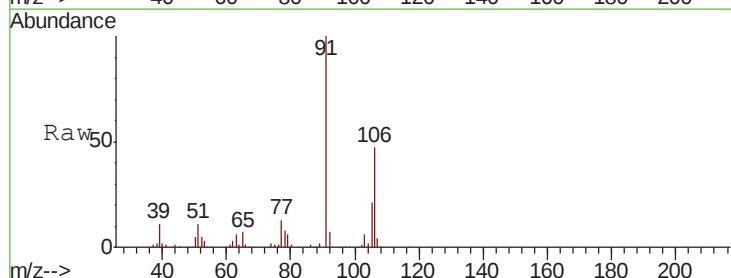
Acq: 12 Dec 2018 16:49

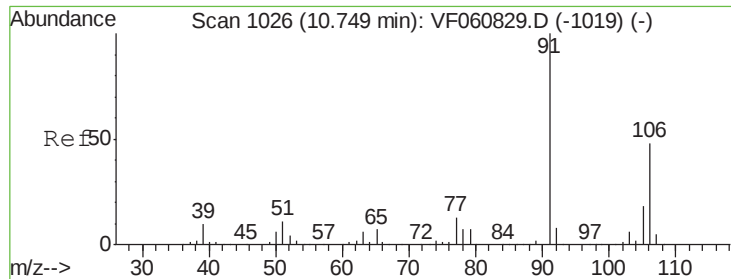
Tgt Ion: 106 Resp: 156697

Ion Ratio Lower Upper

106 100

91 213.6 166.7 250.1





#69

o-Xylene

Concen: 22.275 ug/l

RT: 10.71 min Scan# 1022

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:106 Resp: 87644

Ion Ratio Lower Upper

106 100

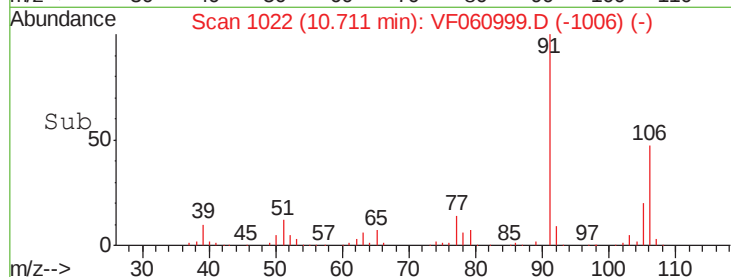
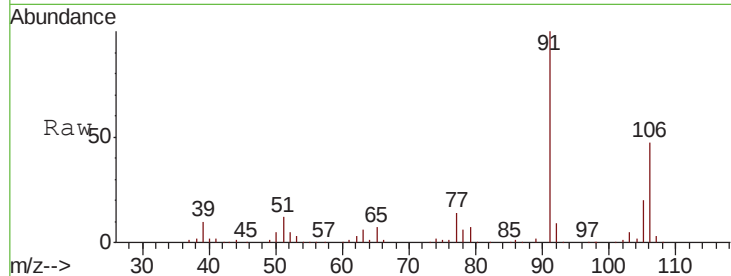
91 212.9 104.8 314.6

Manual Integrations

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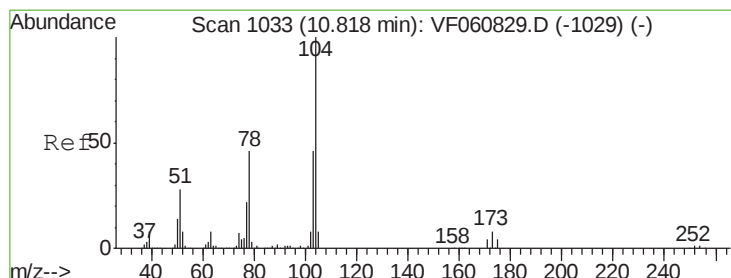
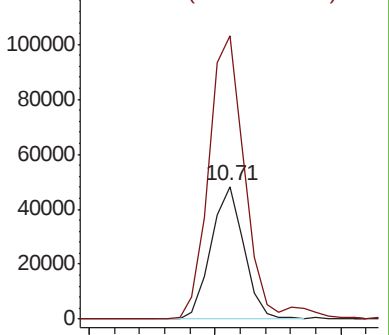
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#70

Styrene

Concen: 21.956 ug/l

RT: 10.79 min Scan# 1030

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

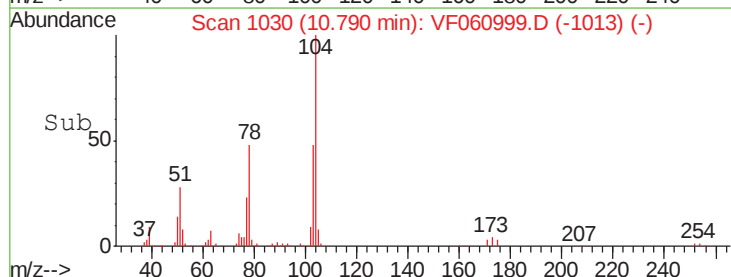
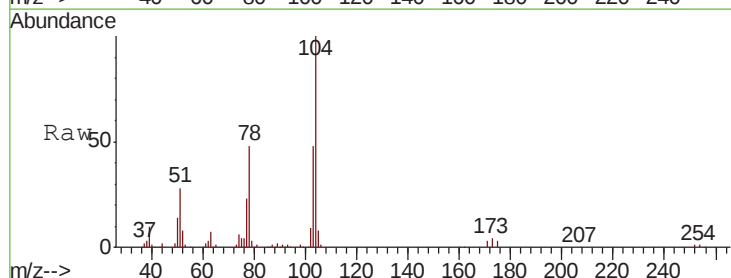
Tgt Ion:104 Resp: 119755

Ion Ratio Lower Upper

104 100

78 47.6 37.3 55.9

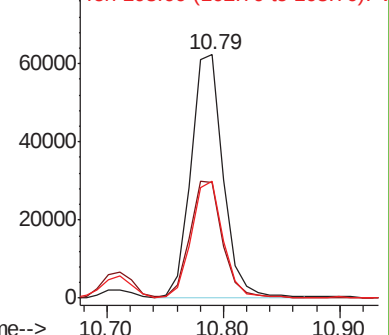
103 48.1 36.8 55.2

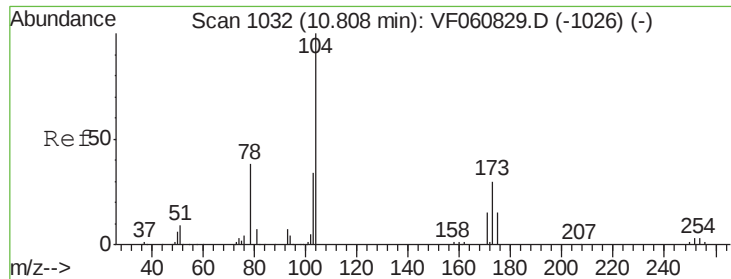


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 20.490 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:173 Resp: 22674

Ion Ratio Lower Upper

173 100

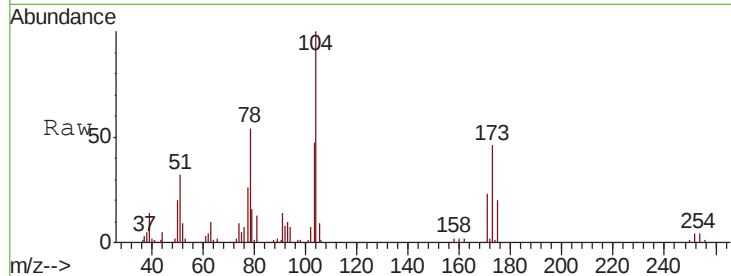
175 45.6 25.5 76.5

254 8.2 7.5 11.3

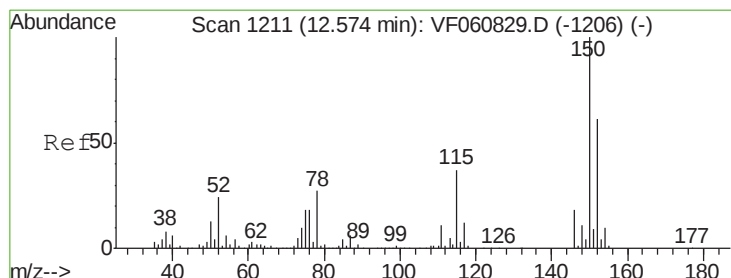
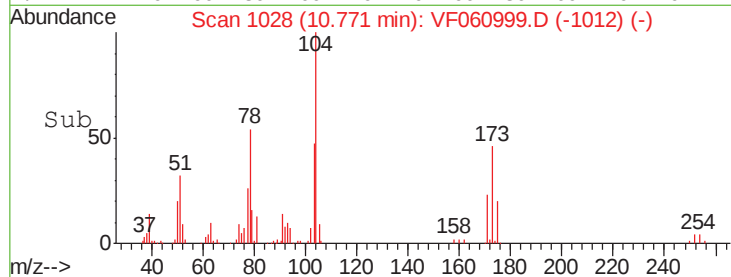
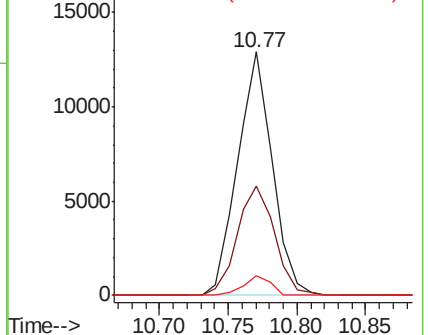
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Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

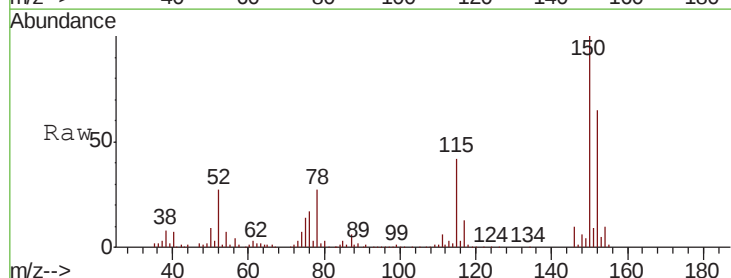
Tgt Ion:152 Resp: 145261

Ion Ratio Lower Upper

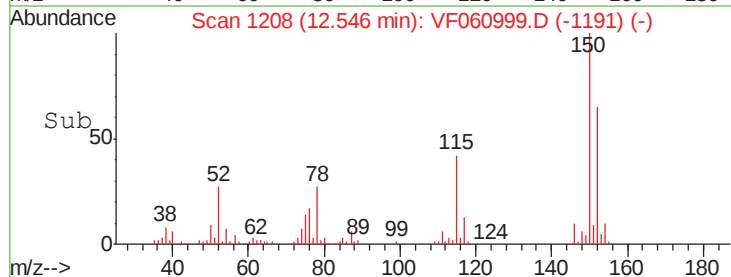
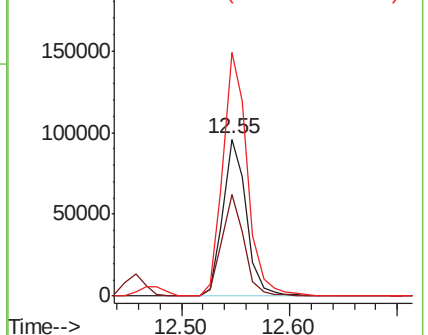
152 100

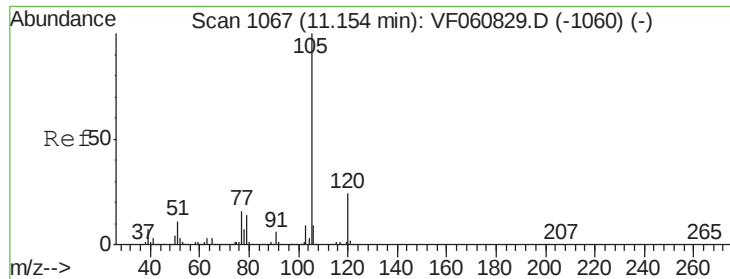
115 64.7 30.1 90.5

150 155.0 0.0 327.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.841 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:105 Resp: 262205

Ion Ratio Lower Upper

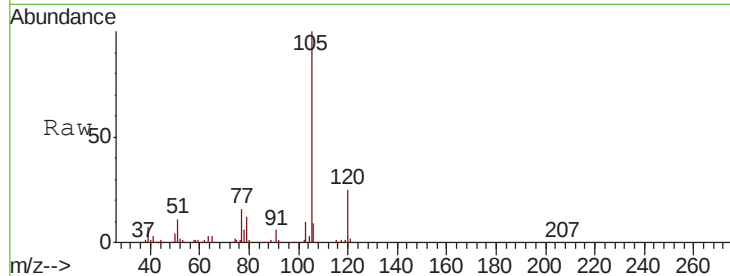
105 100

120 24.7 12.2 36.4

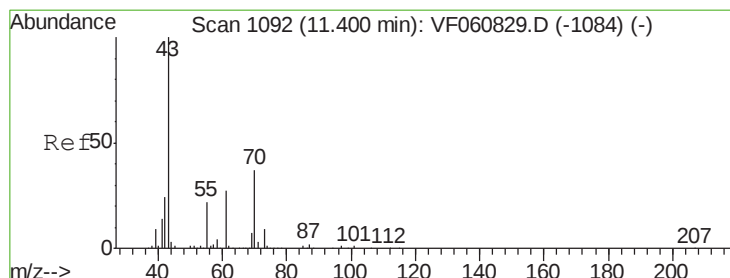
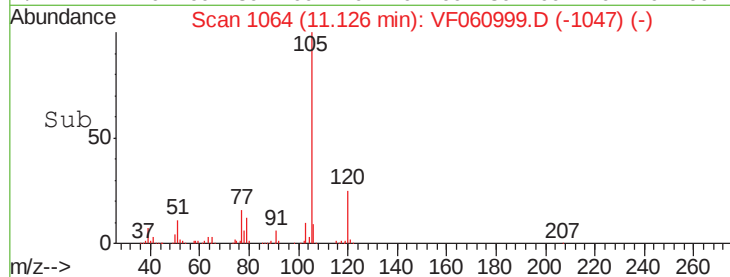
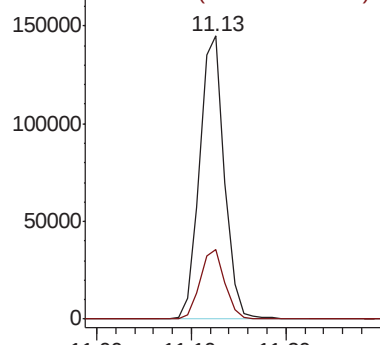
Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V



#74

N-ethyl acetate

Concen: 22.264 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Tgt Ion: 43 Resp: 59016

Ion Ratio Lower Upper

43 100

70 36.8 29.6 44.4

55 17.6 17.2 25.8

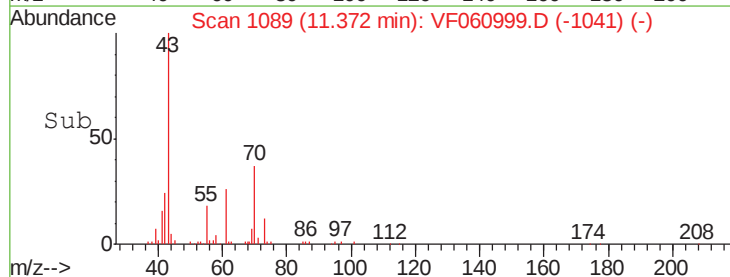
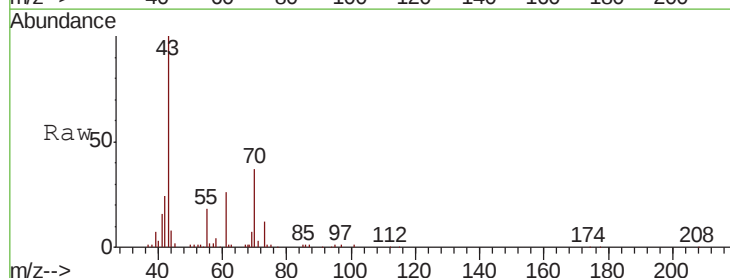
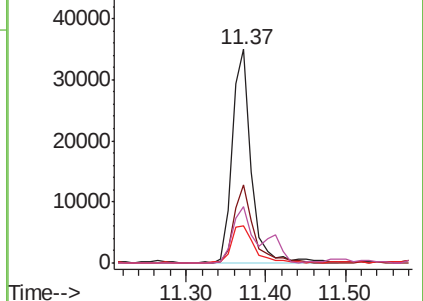
61 26.3 21.8 32.6

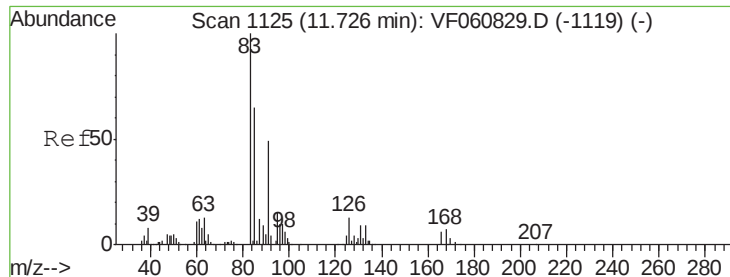
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





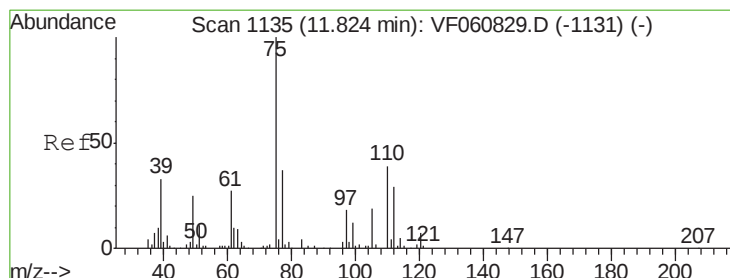
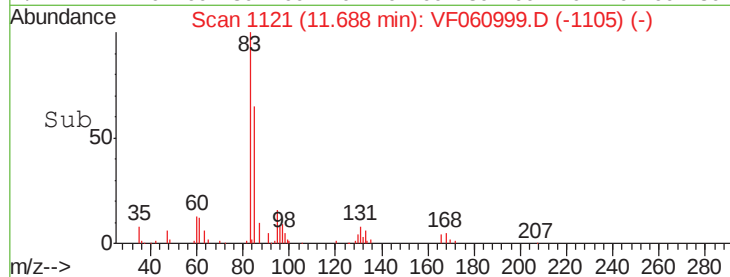
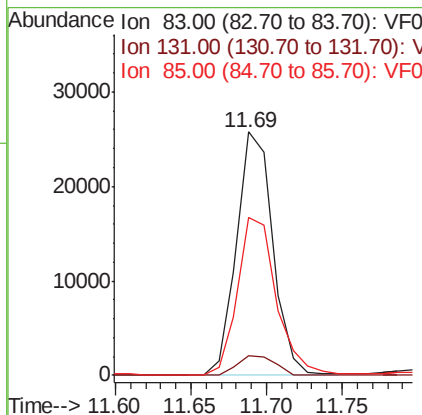
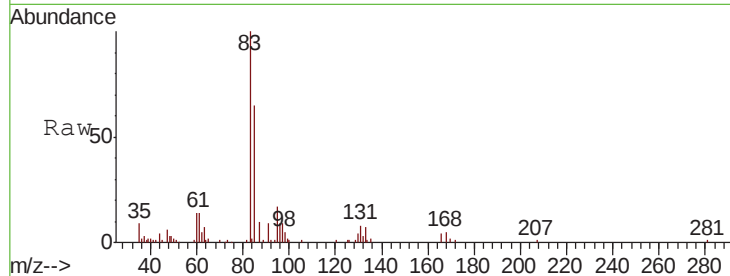
#75
 1,1,2,2-Tetrachloroethane
 Concen: 22.769 ug/l
 RT: 11.69 min Scan# 1121
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion	83	Resp	43016
Ion Ratio	Lower	Upper	
83	100		
131	8.1	4.7	14.1
85	65.0	32.6	97.8

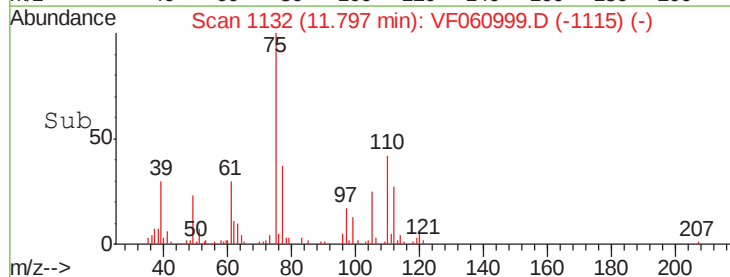
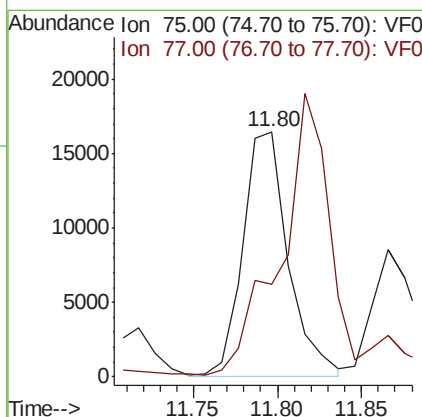
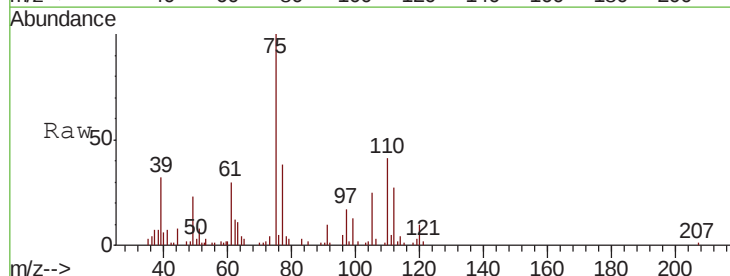
Manual Integrations
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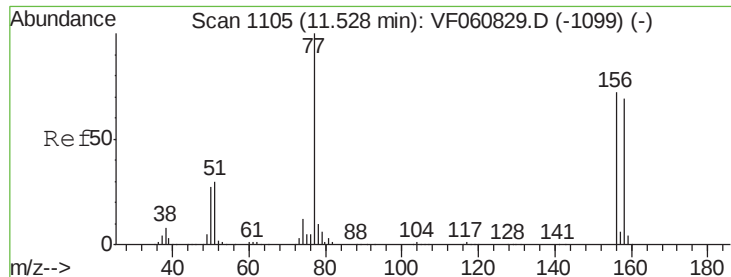
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#76
 1,2,3-Trichloropropane
 Concen: 22.542 ug/l
 RT: 11.80 min Scan# 1132
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion	75	Resp	30955
Ion Ratio	Lower	Upper	
75	100		
77	38.0	18.4	55.4





#77

Bromobenzene

Concen: 21.892 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.04 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:156 Resp: 55095

Ion Ratio Lower Upper

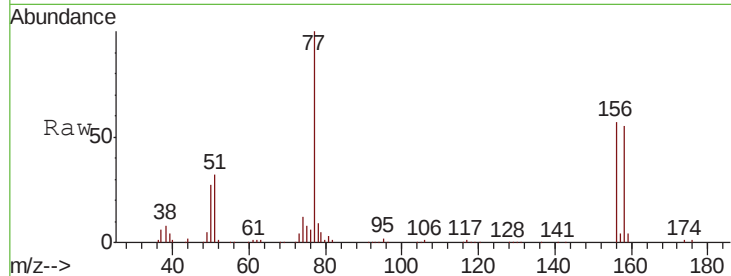
156 100

77 175.0 69.7 209.0

158 95.5 47.8 143.4

Manual Integrations
APPROVED

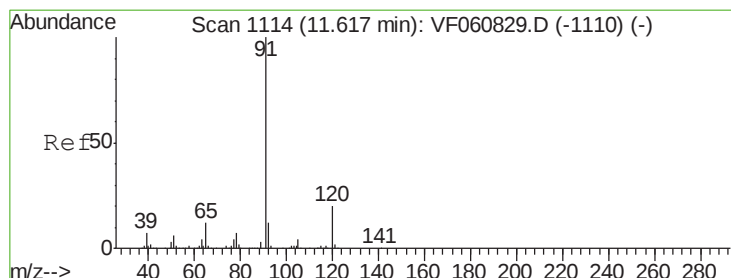
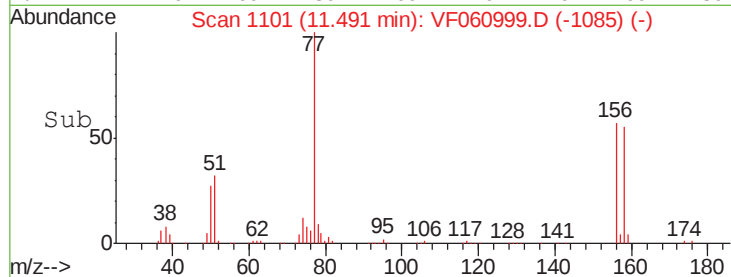
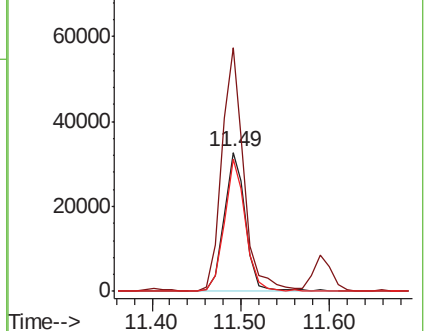
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 23.011 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.03 min

Lab File: VF060999.D

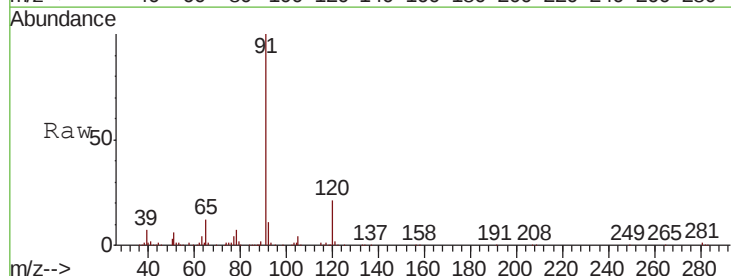
Acq: 12 Dec 2018 16:49

Tgt Ion: 91 Resp: 309334

Ion Ratio Lower Upper

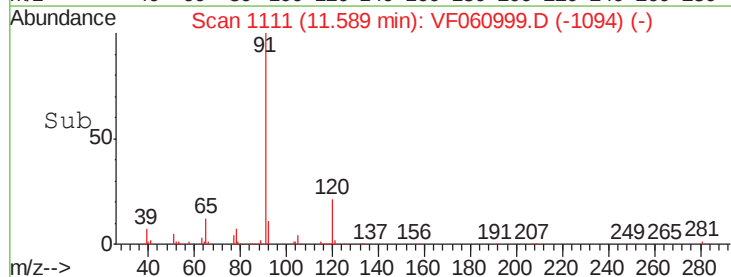
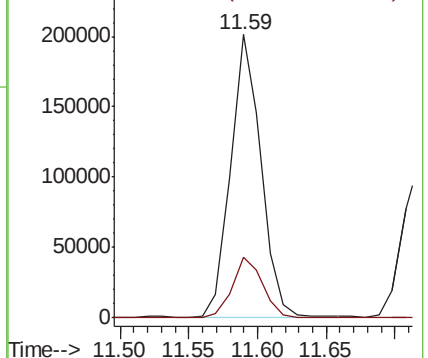
91 100

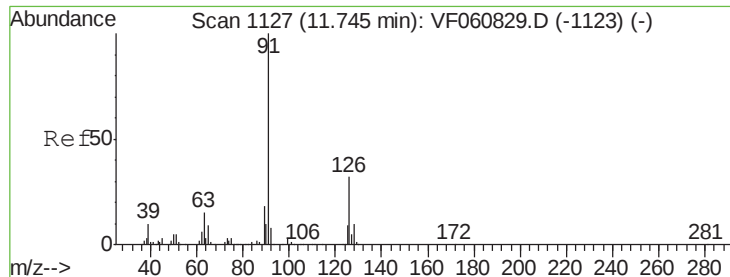
120 21.4 10.3 30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.320 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 91 Resp: 172046

Ion Ratio Lower Upper

91 100

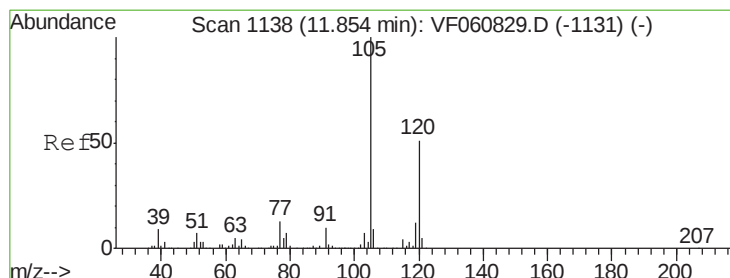
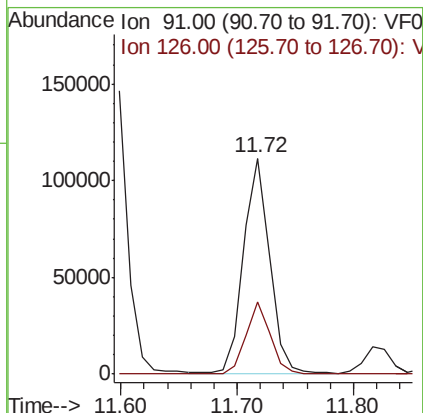
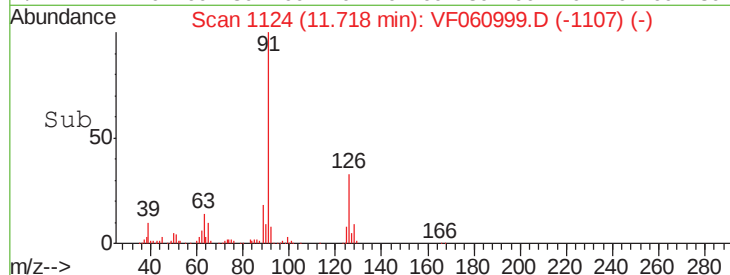
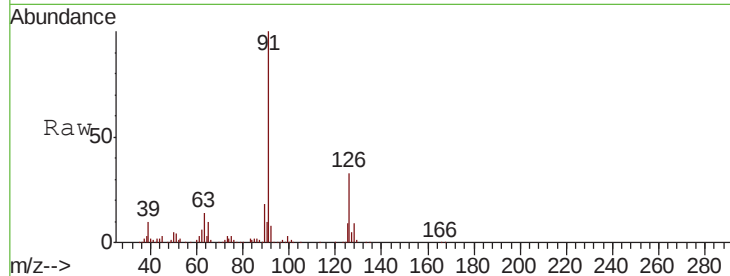
126 33.3 15.9 47.6

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 22.385 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF060999.D

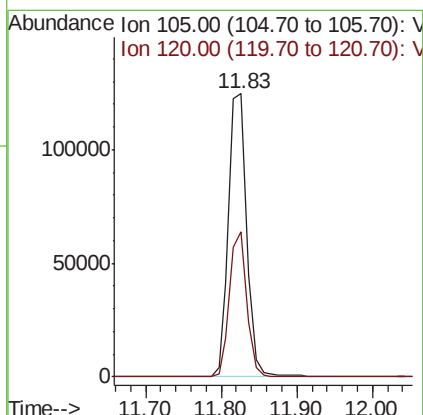
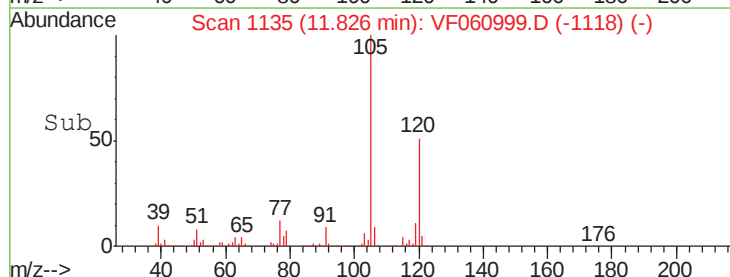
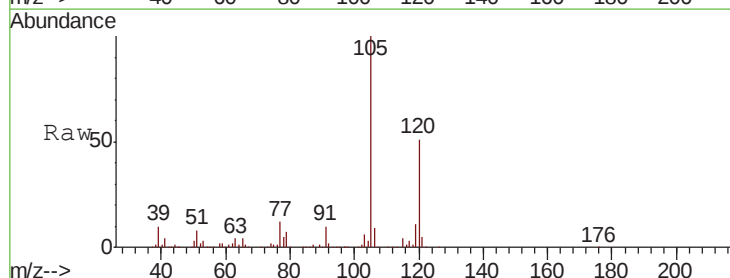
Acq: 12 Dec 2018 16:49

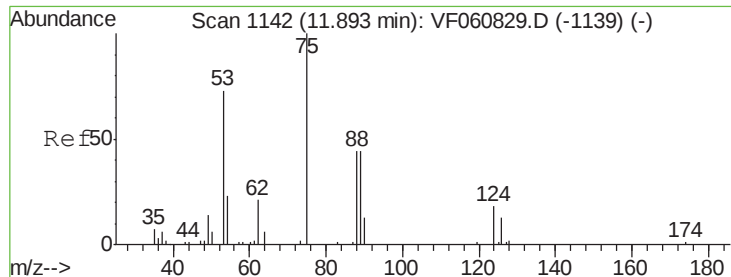
Tgt Ion: 105 Resp: 208606

Ion Ratio Lower Upper

105 100

120 51.5 25.8 77.3





#81

trans-1,4-Dichloro-2-butene

Concen: 21.248 ug/l m

RT: 11.87 min Scan# 1139

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 75 Resp: 14296

Ion Ratio Lower Upper

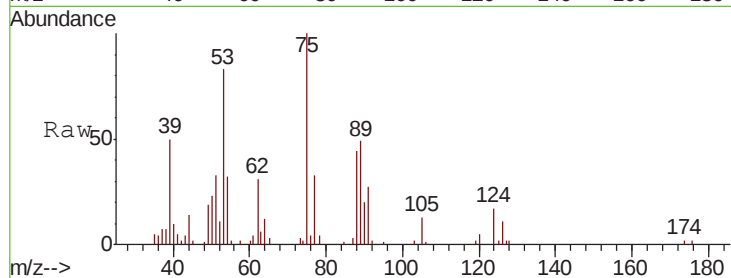
75 100

53 82.8 65.9 98.9

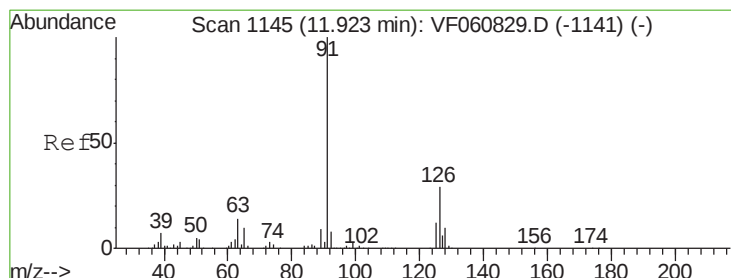
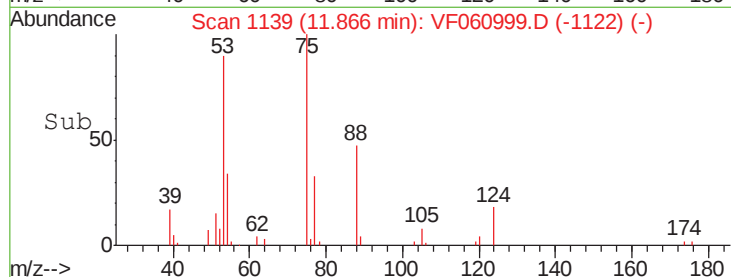
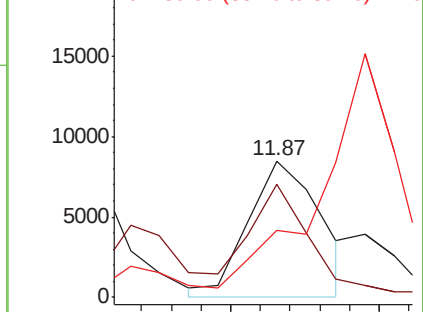
89 48.6 38.8 58.2

Manual Integrations
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Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 22.135 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. -0.03 min

Lab File: VF060999.D

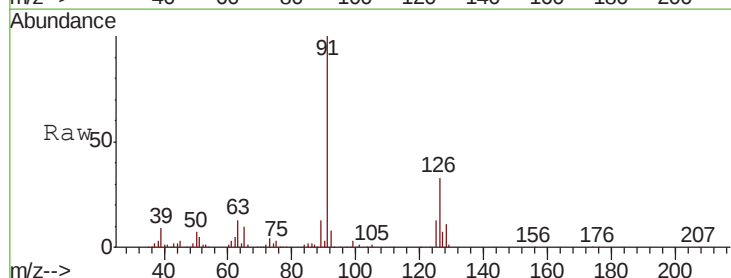
Acq: 12 Dec 2018 16:49

Tgt Ion: 91 Resp: 179556

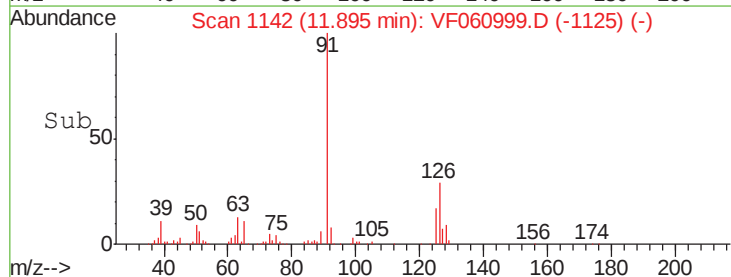
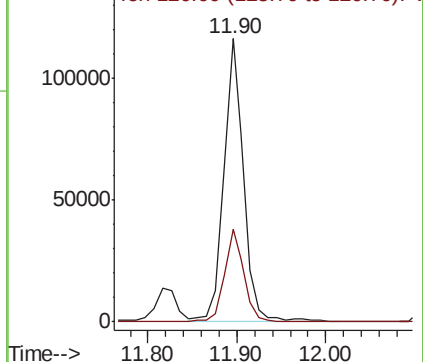
Ion Ratio Lower Upper

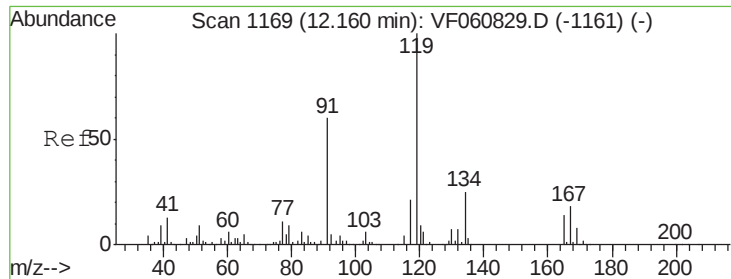
91 100

126 32.6 14.8 44.4



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 23.006 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:119 Resp: 218390

Ion Ratio Lower Upper

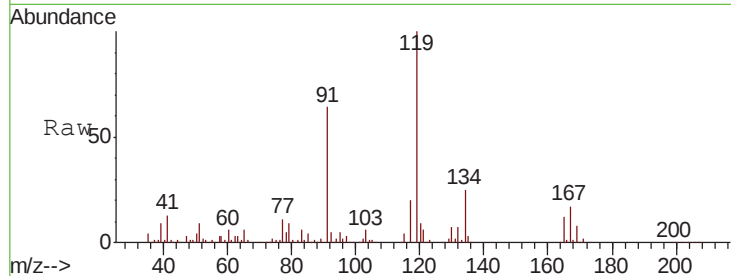
119 100

91 63.8 30.1 90.3

134 25.0 12.6 37.8

Manual Integrations
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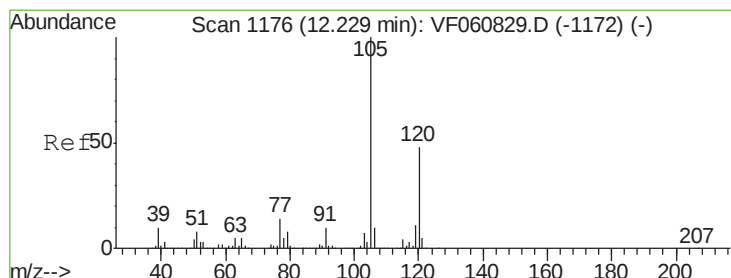
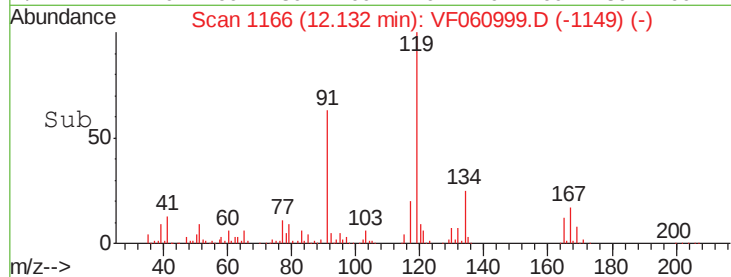
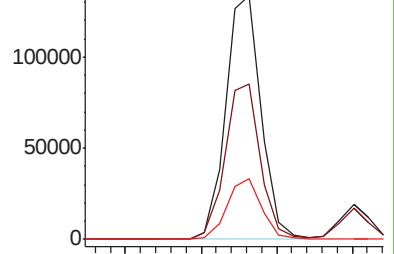
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 22.850 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.03 min

Lab File: VF060999.D

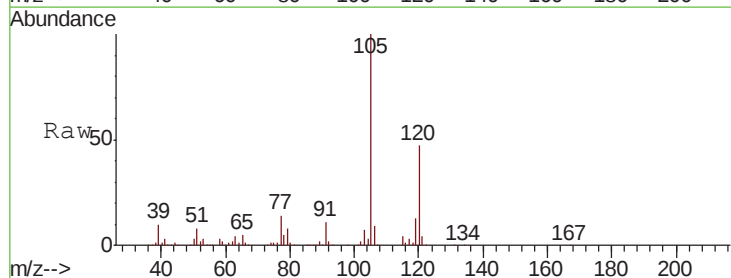
Acq: 12 Dec 2018 16:49

Tgt Ion:105 Resp: 212518

Ion Ratio Lower Upper

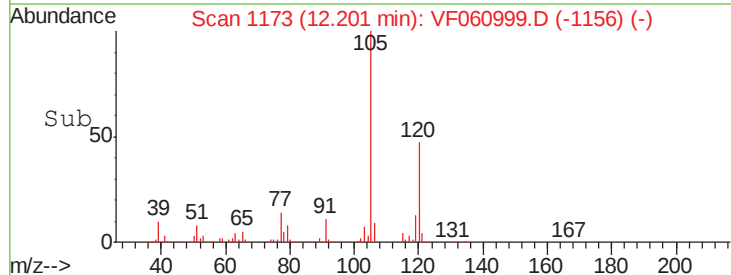
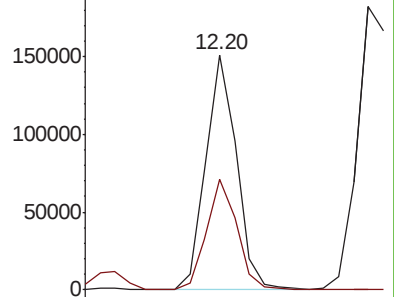
105 100

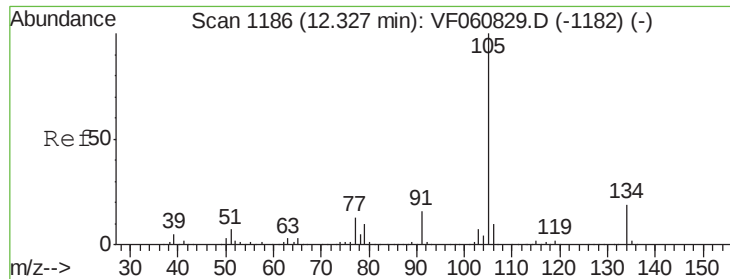
120 47.1 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 22.274 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:105 Resp: 289454

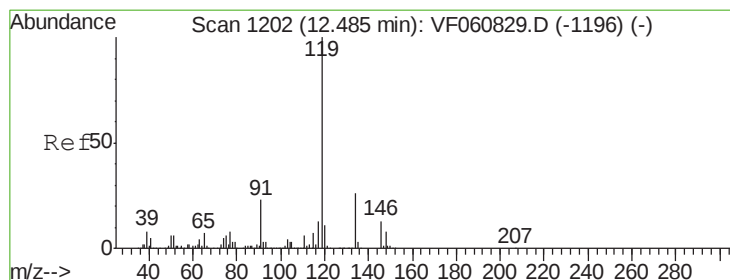
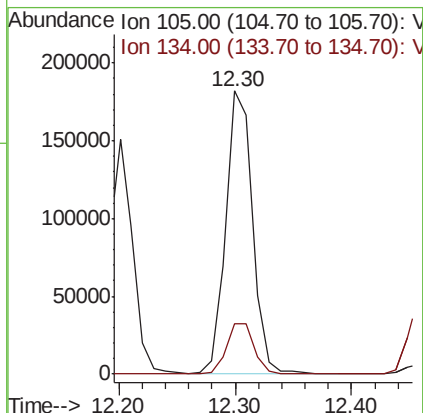
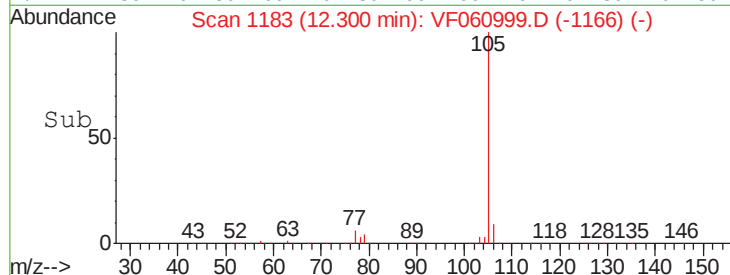
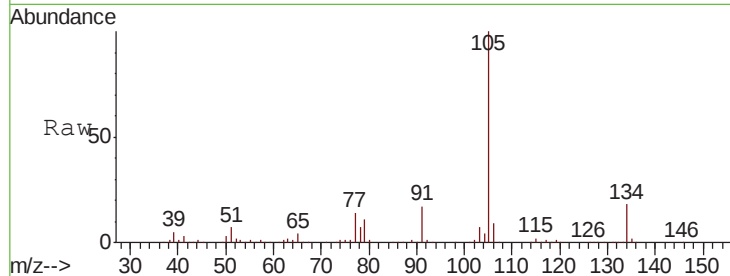
Ion Ratio Lower Upper

105 100

134 17.6 9.5 28.5

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#86

p-Isopropyltoluene

Concen: 23.212 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

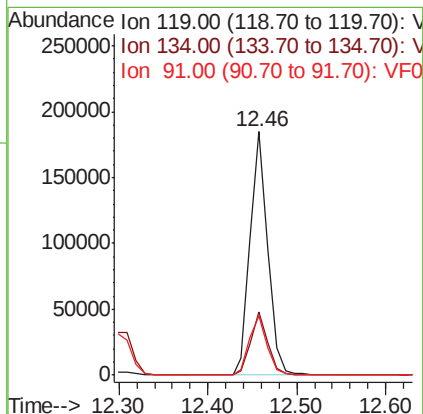
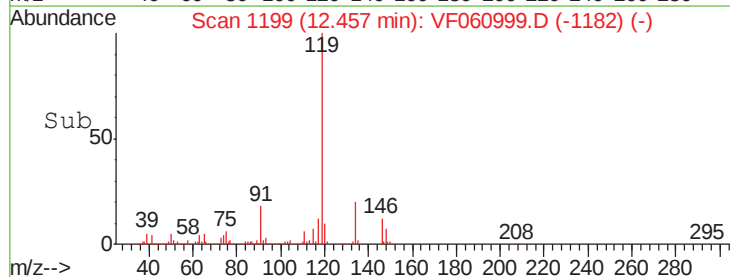
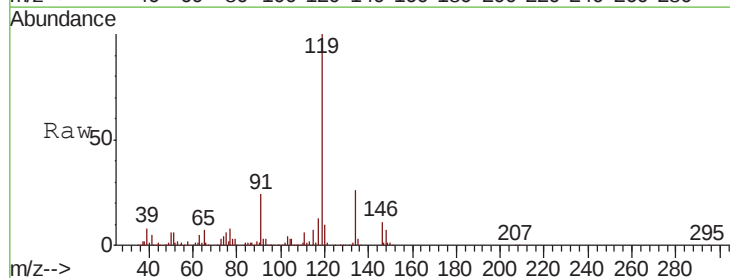
Tgt Ion:119 Resp: 252891

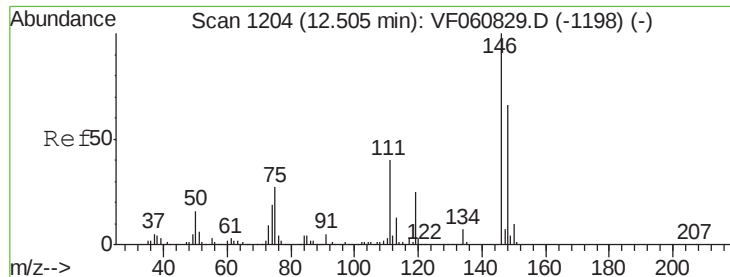
Ion Ratio Lower Upper

119 100

134 26.0 12.9 38.6

91 24.2 11.8 35.3





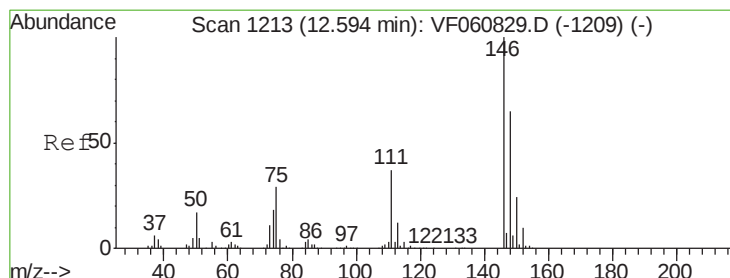
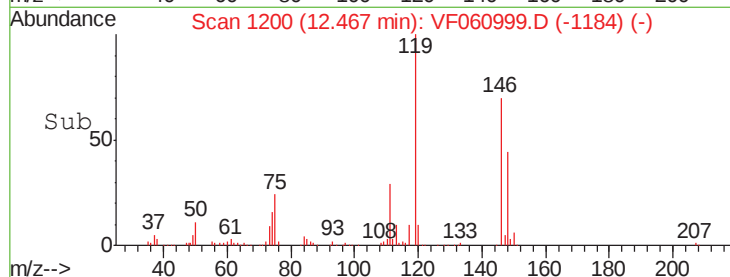
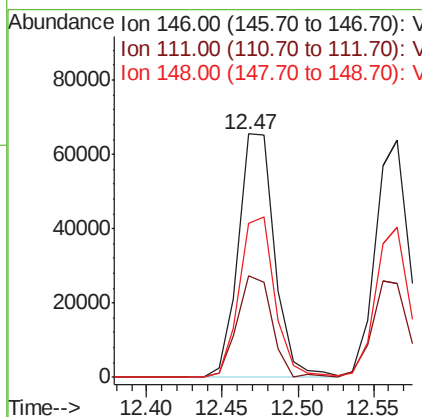
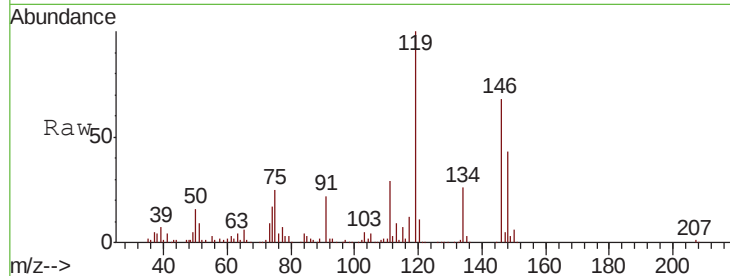
#87
 1,3-Dichlorobenzene
 Concen: 23.002 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.04 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.0	59.9
148	63.2	32.9	98.6

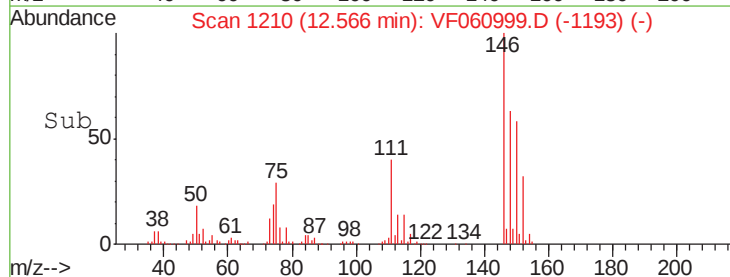
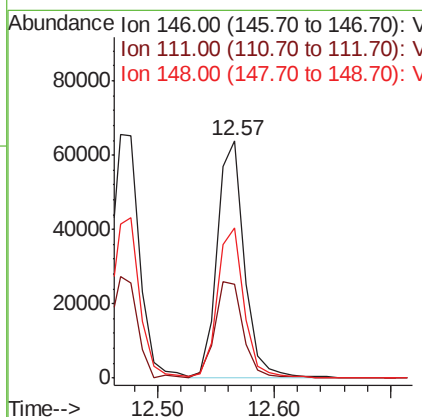
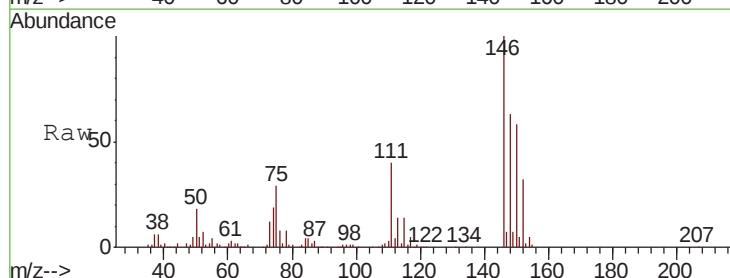
Manual Integrations
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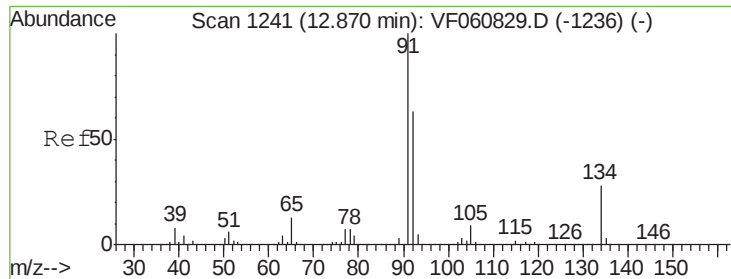
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#88
 1,4-Dichlorobenzene
 Concen: 21.978 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	18.9	56.7
148	62.9	32.3	96.9





#89

n-Butylbenzene

Concen: 23.179 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion: 91 Resp: 255346

Ion Ratio Lower Upper

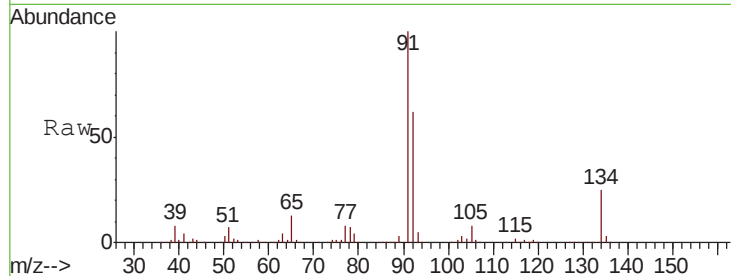
91 100

92 61.9 31.6 94.7

134 24.9 13.8 41.4

Manual Integrations
APPROVED

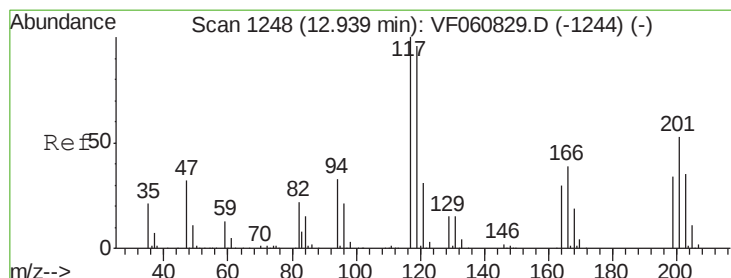
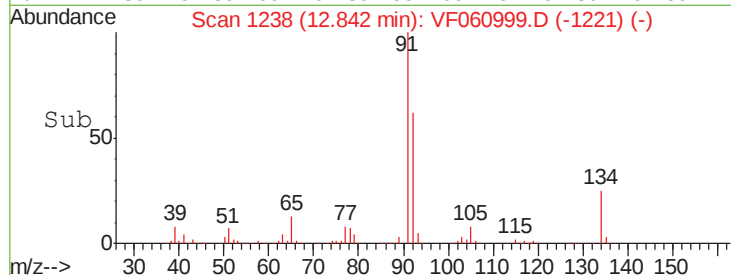
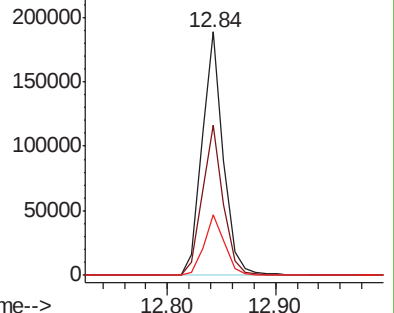
MMDadoda
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Abundance Ion 91.00 (90.70 to 91.70): VF060829.D (-1236) (-)

Ion 92.00 (91.70 to 92.70): VF060829.D (-1236) (-)

Ion 134.00 (133.70 to 134.70): VF060829.D (-1236) (-)



#90

Hexachloroethane

Concen: 22.238 ug/l

RT: 12.91 min Scan# 1245

Delta R.T. -0.03 min

Lab File: VF060999.D

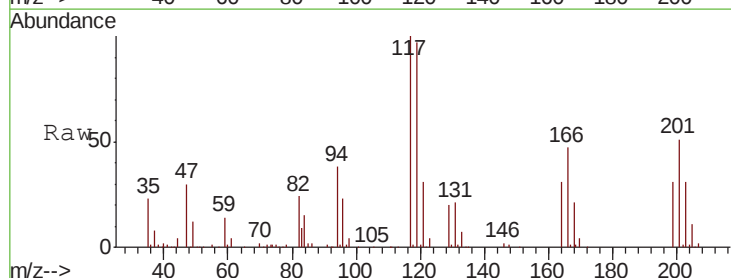
Acq: 12 Dec 2018 16:49

Tgt Ion: 117 Resp: 58341

Ion Ratio Lower Upper

117 100

201 51.4 26.7 80.1



Abundance Ion 117.00 (116.70 to 117.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

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Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

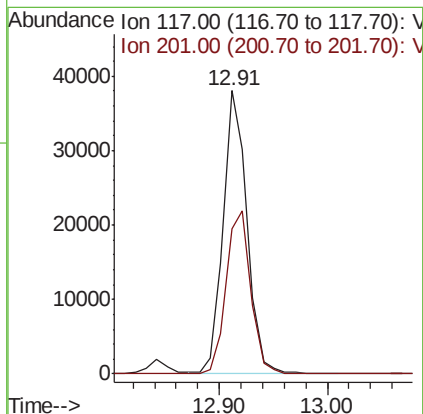
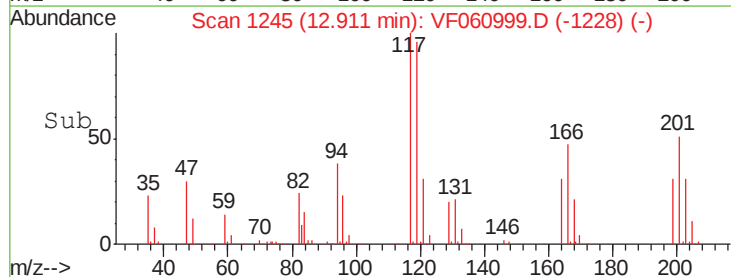
Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

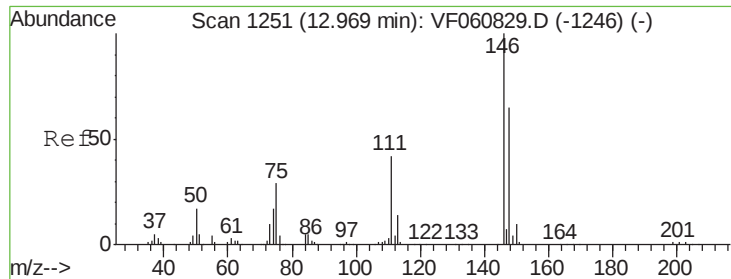
Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)

Ion 201.00 (200.70 to 201.70): VF060829.D (-1244) (-)





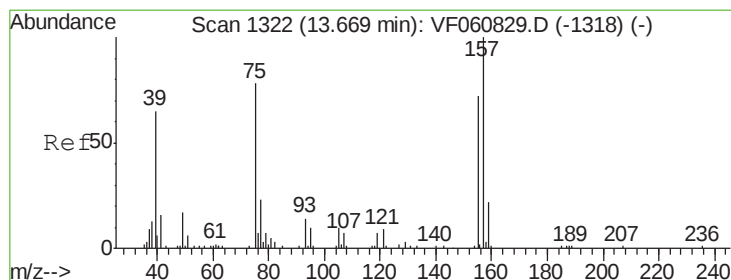
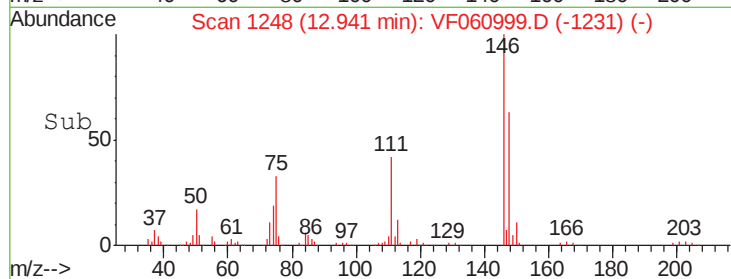
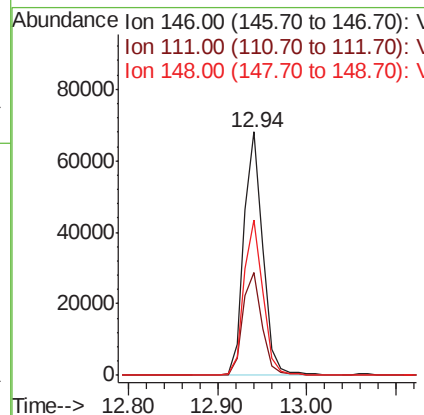
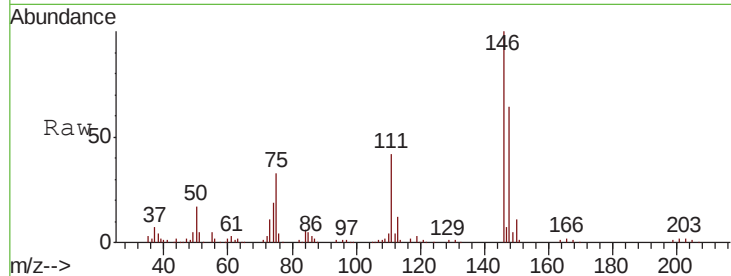
#91
 1,2-Dichlorobenzene
 Concen: 22.443 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Tot Ion:146 Resp: 101743
 Ion Ratio Lower Upper
 146 100
 111 42.1 21.2 63.6
 148 63.5 32.5 97.5

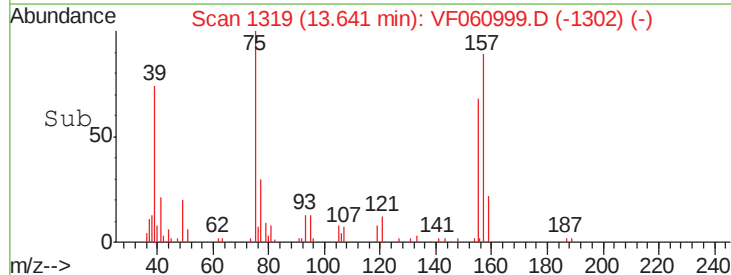
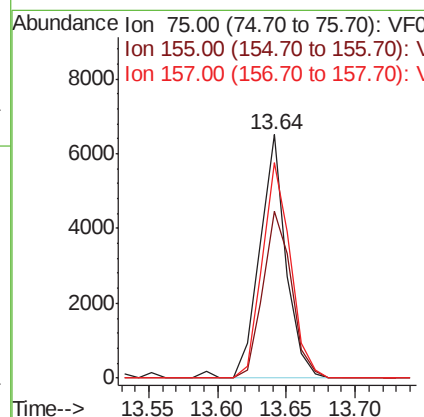
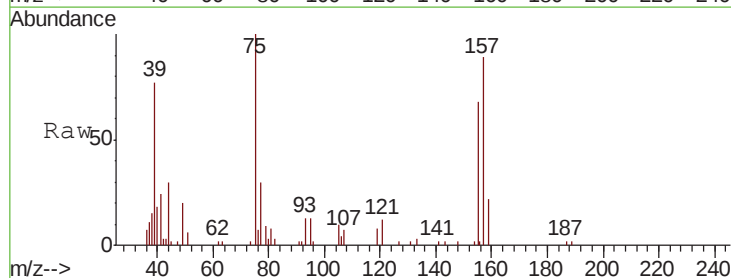
Manual Integrations
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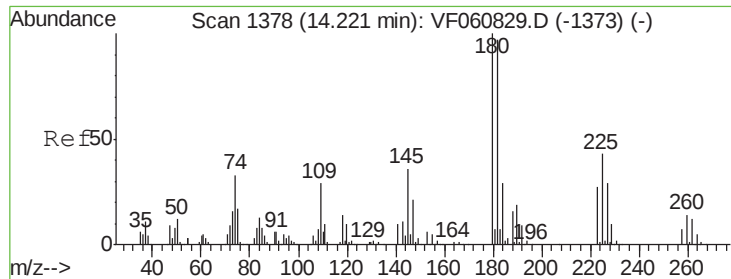
MMDadoda
 12/20/2018 3:25:18 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.805 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.03 min
 Lab File: VF060999.D
 Acq: 12 Dec 2018 16:49

Tgt Ion: 75 Resp: 8695
 Ion Ratio Lower Upper
 75 100
 155 68.4 45.6 136.9
 157 88.7 63.8 191.5





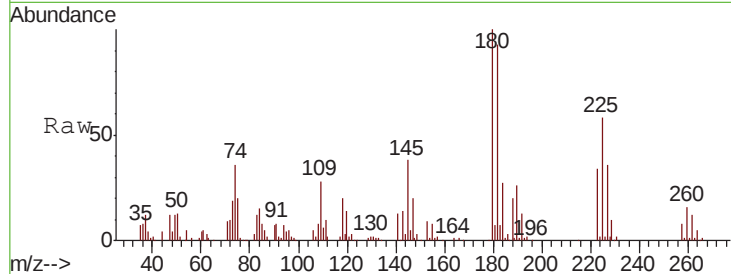
#93
1,2,4-Trichlorobenzene
Concen: 23.522 ug/l
RT: 14.19 min Scan# 1375
Delta R.T. -0.03 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Instrument :
MSVOA_F
ClientSampleId :
VF1212SBS02

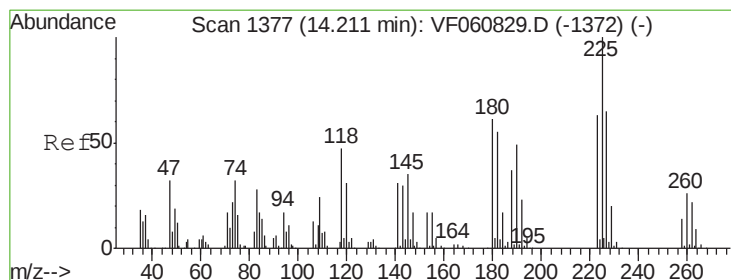
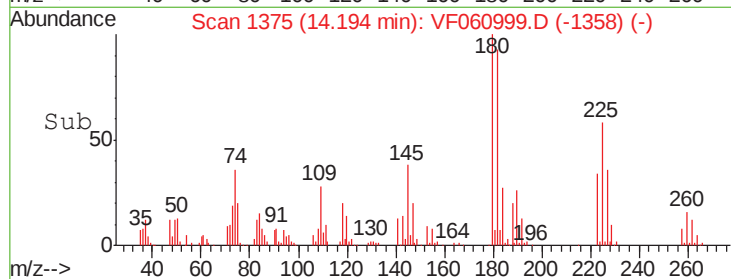
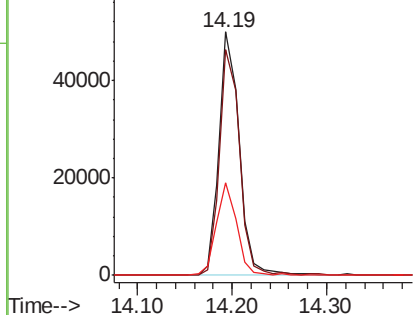
Tot Ion:180 Resp: 74508
Ion Ratio Lower Upper
180 100
182 92.6 48.5 145.5
145 37.8 18.1 54.3

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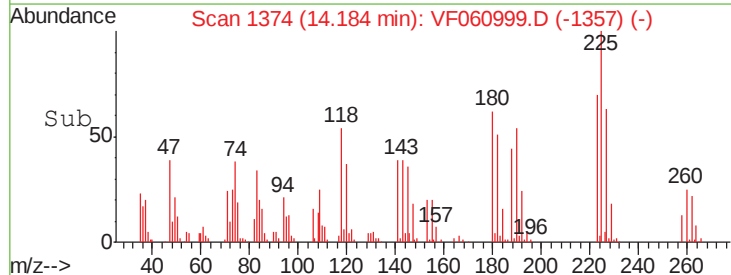
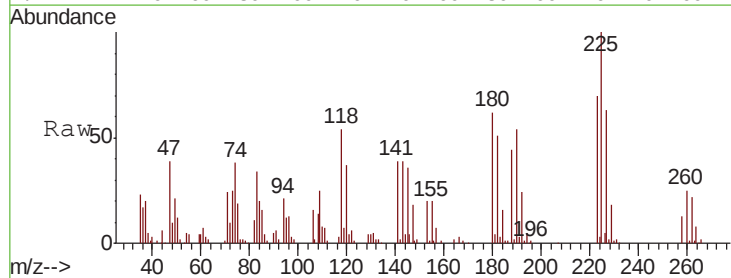
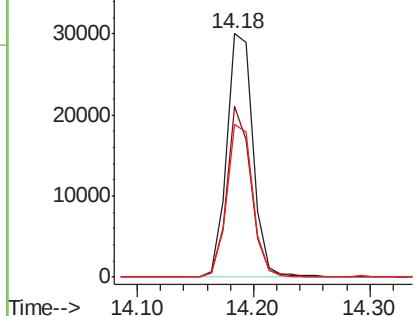
Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

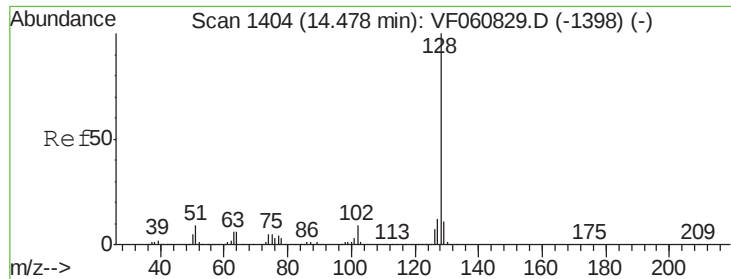


#94
Hexachlorobutadiene
Concen: 22.268 ug/l
RT: 14.18 min Scan# 1374
Delta R.T. -0.03 min
Lab File: VF060999.D
Acq: 12 Dec 2018 16:49

Tgt Ion:225 Resp: 47020
Ion Ratio Lower Upper
225 100
223 69.9 31.4 94.3
227 62.5 32.5 97.5

Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 18.975 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

Instrument :

MSVOA_F

ClientSampleId :

VF1212SBS02

Tot Ion:128 Resp: 130008

Ion Ratio Lower Upper

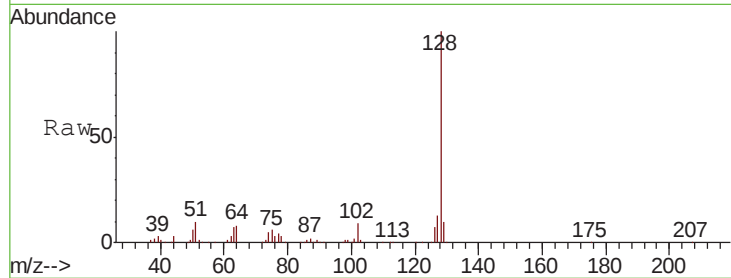
128 100

127 12.6 9.9 14.9

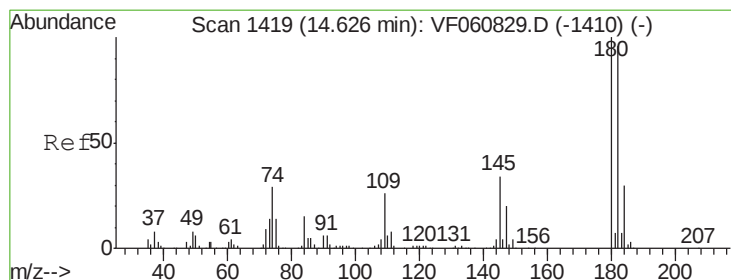
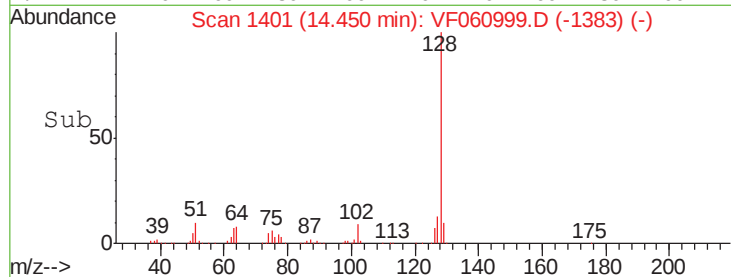
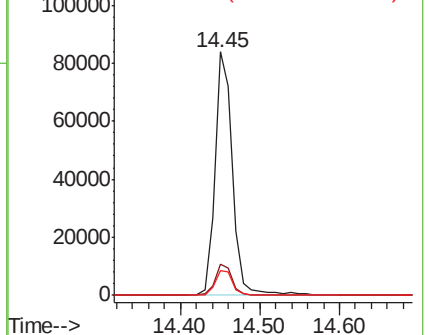
129 10.4 9.1 13.7

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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 22.650 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.03 min

Lab File: VF060999.D

Acq: 12 Dec 2018 16:49

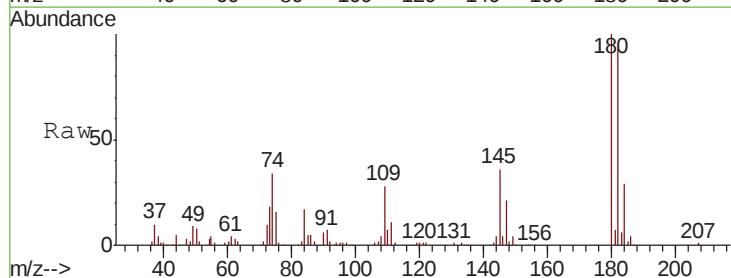
Tgt Ion:180 Resp: 66618

Ion Ratio Lower Upper

180 100

182 92.6 47.9 143.8

145 36.2 17.2 51.5



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

