

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082318\
 Data File : VF060074.D
 Acq On : 24 Aug 2018 2:48
 Operator : VA/AP
 Sample : VF0823SBS02
 Misc : 5.00µg/5mL/MSVOA F/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS02

Manual Integrations
 APPROVED

MMDadoda
 8/24/2018 4:13:22 PM

Quant Time: Aug 24 04:14:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	164106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	269437	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.92	117	289683	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	182935	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	124961	55.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.28%	
35) Dibromofluoromethane	4.30	113	116561	55.09	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	110.18%	
50) Toluene-d8	7.71	98	295377	49.16	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	98.32%	
62) 4-Bromofluorobenzene	11.51	95	166720	52.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	49816	23.06	ug/l	93
3) Chloromethane	1.07	50	35380	23.25	ug/l	98
4) Vinyl Chloride	1.12	62	25867	19.28	ug/l	97
5) Bromomethane	1.32	94	21159	20.76	ug/l	91
6) Chloroethane	1.39	64	12277	23.22	ug/l	97
7) Trichlorofluoromethane	1.48	101	68740	25.48	ug/l	95
8) Diethyl Ether	1.70	74	9240	19.16	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	1.86	101	31919	22.54	ug/l	94
10) Methyl Iodide	1.93	142	39203	20.94	ug/l #	84
11) Tert butyl alcohol	2.69	59	12168	101.84	ug/l #	90
12) 1,1-Dichloroethene	1.83	96	23225	22.26	ug/l	90
13) Acrolein	2.09	56	3646	71.01	ug/l	96
14) Allyl chloride	2.19	41	37905	20.46	ug/l	85
15) Acrylonitrile	3.08	53	22465	95.27	ug/l	95
16) Acetone	2.34	43	54514	92.35	ug/l #	92
17) Carbon Disulfide	1.84	76	67259	20.59	ug/l	97
18) Methyl Acetate	2.45	43	23537	20.95	ug/l	97
19) Methyl tert-butyl Ether	2.54	73	70744	21.17	ug/l	100
20) Methylene Chloride	2.28	84	28302	21.41	ug/l	92
21) trans-1,2-Dichloroethene	2.41	96	23202	19.88	ug/l	98
22) Diisopropyl ether	2.93	45	74893	18.05	ug/l	90
23) Vinyl Acetate	3.33	43	205816	93.65	ug/l #	94
24) 1,1-Dichloroethane	3.00	63	55559	21.68	ug/l	98
25) 2-Butanone	4.51	43	82242	107.26	ug/l	99
26) 2,2-Dichloropropane	3.76	77	47817	18.03	ug/l	91
27) cis-1,2-Dichloroethene	3.64	96	35617	21.53	ug/l	96
28) Bromochloromethane	3.89	49	27829	25.72	ug/l	85
29) Tetrahydrofuran	4.27	42	34332	118.59	ug/l	95
30) Chloroform	4.04	83	86464	24.03	ug/l	97
31) Cyclohexane	3.86	56	42012	21.51	ug/l	98
32) 1,1,1-Trichloroethane	4.28	97	75251	24.43	ug/l	96
36) 1,1-Dichloropropene	4.46	75	50402	19.91	ug/l	96
37) Ethyl Acetate	4.30	43	30087	19.87	ug/l #	74
38) Carbon Tetrachloride	4.17	117	62604	21.35	ug/l	96

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.63	83	47563	20.03	ug/l #	86
40) Benzene	4.81	78	119533	21.61	ug/l	100
41) Methacrylonitrile	4.94	41	15764	20.58	ug/l #	90
42) 1,2-Dichloroethane	5.11	62	64573	21.77	ug/l	99
43) Isopropyl Acetate	7.12	43	35955	18.87	ug/l #	98
44) Trichloroethene	5.68	130	41130	22.49	ug/l	93
45) 1,2-Dichloropropane	6.41	63	33370	21.33	ug/l	94
46) Dibromomethane	6.25	93	30315	24.76	ug/l #	76
47) Bromodichloromethane	6.55	83	66943	22.64	ug/l	88
48) Methyl methacrylate	6.88	41	23377	18.54	ug/l	89
49) 1,4-Dioxane	6.88	88	4146	342.45	ug/l #	84
51) 4-Methyl-2-Pentanone	8.41	43	193023	117.28	ug/l	96
52) Toluene	7.79	92	85457	21.19	ug/l	94
53) t-1,3-Dichloropropene	8.43	75	54989	20.51	ug/l	99
54) cis-1,3-Dichloropropene	7.46	75	60341	20.16	ug/l	96
55) 1,1,2-Trichloroethane	8.64	97	35051	23.49	ug/l	95
56) Ethyl methacrylate	8.76	69	39054	21.62	ug/l	92
57) 1,3-Dichloropropane	9.01	76	58541	22.32	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.78	63	15614	108.89	ug/l	100
59) 2-Hexanone	9.63	43	151583	113.79	ug/l	97
60) Dibromochloromethane	8.86	129	49718	22.57	ug/l	97
61) 1,2-Dibromoethane	9.14	107	39427	22.49	ug/l	88
64) Tetrachloroethene	8.31	164	44224	22.66	ug/l	94
65) Chlorobenzene	9.94	112	119519	21.85	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.07	131	43573	21.00	ug/l	96
67) Ethyl Benzene	10.04	91	204783	21.70	ug/l	99
68) m/p-Xylenes	10.27	106	157087	45.75	ug/l	96
69) o-Xylene	10.83	106	77299	20.90	ug/l	98
70) Styrene	10.90	104	125990	22.21	ug/l	98
71) Bromoform	10.89	173	29379	20.30	ug/l	99
73) Isopropylbenzene	11.23	105	232078	21.08	ug/l	100
74) N-amyl acetate	11.46	43	68408	19.99	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.79	83	56194	23.37	ug/l	98
76) 1,2,3-Trichloropropane	11.89	75	43132	23.13	ug/l	94
77) Bromobenzene	11.60	156	63078	21.06	ug/l	98
78) n-propylbenzene	11.69	91	299861	22.06	ug/l	100
79) 2-Chlorotoluene	11.82	91	170405	21.32	ug/l	98
80) 1,3,5-Trimethylbenzene	11.92	105	206937	21.57	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.96	75	15114m	17.71	ug/l	
82) 4-Chlorotoluene	11.99	91	189312	21.82	ug/l	99
83) tert-Butylbenzene	12.22	119	194042	20.74	ug/l	97
84) 1,2,4-Trimethylbenzene	12.29	105	220249	21.60	ug/l	95
85) sec-Butylbenzene	12.39	105	276103	21.20	ug/l	100
86) p-Isopropyltoluene	12.54	119	235526	21.79	ug/l	96
87) 1,3-Dichlorobenzene	12.56	146	123329	22.27	ug/l	96
88) 1,4-Dichlorobenzene	12.65	146	117150	21.29	ug/l	96
89) n-Butylbenzene	12.92	91	236797	22.55	ug/l	99
90) Hexachloroethane	13.00	117	51387	21.16	ug/l	96
91) 1,2-Dichlorobenzene	13.02	146	116241	21.83	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	10611	21.59	ug/l	60

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	82081	20.93	ug/l	95
94) Hexachlorobutadiene	14.26	225	47005	19.26	ug/l	97
95) Naphthalene	14.53	128	129948	20.51	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	80597	21.54	ug/l	97

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

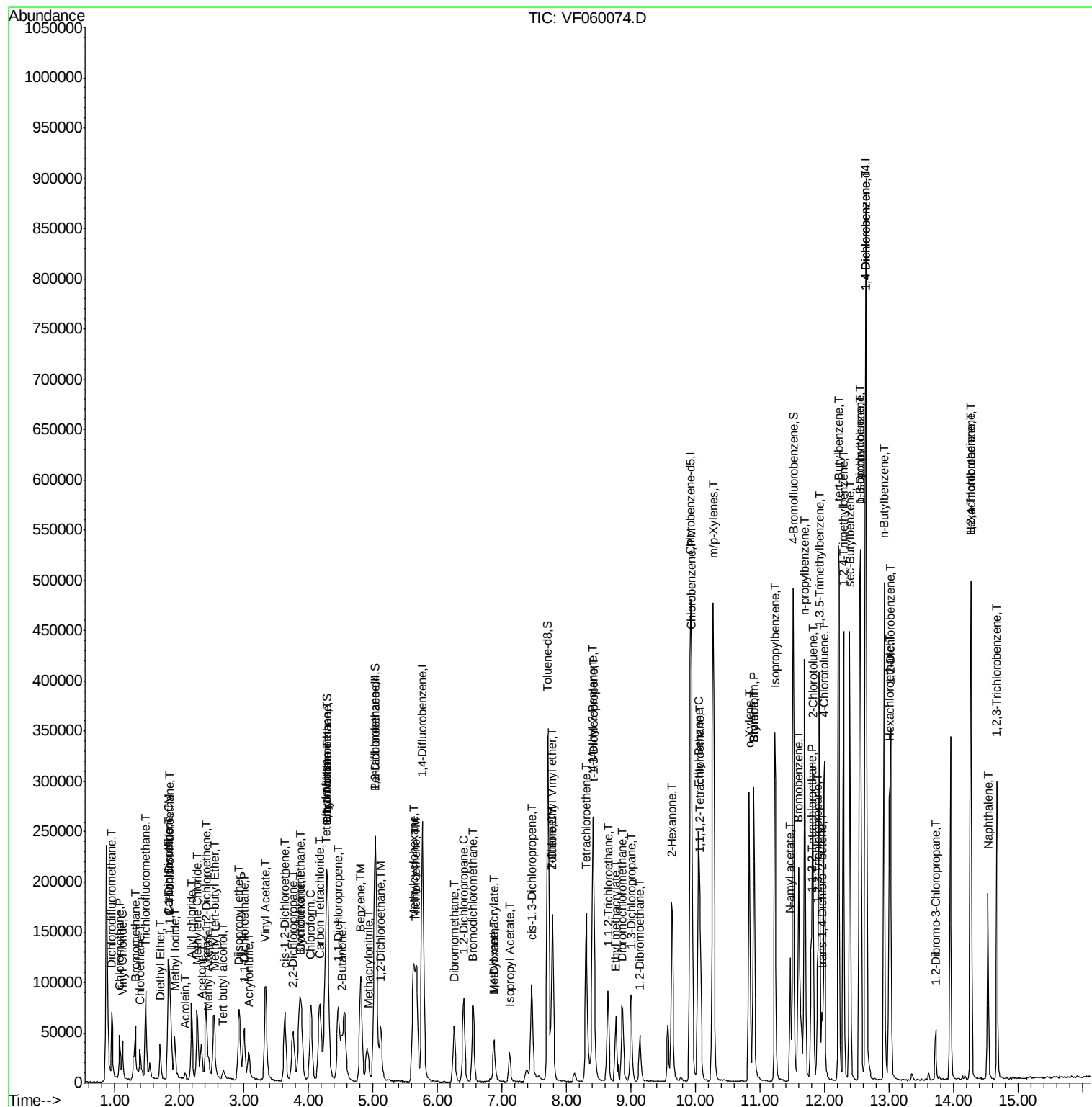
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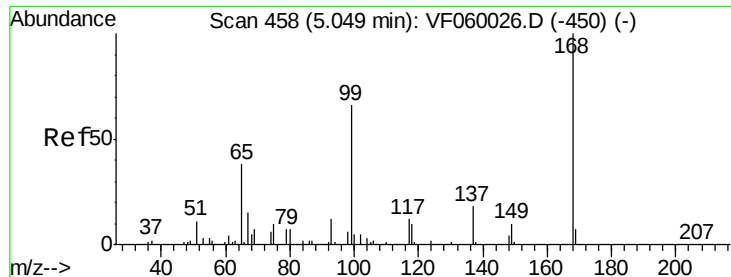
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS02

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion:168 Resp: 164106

Ion Ratio Lower Upper

168 100

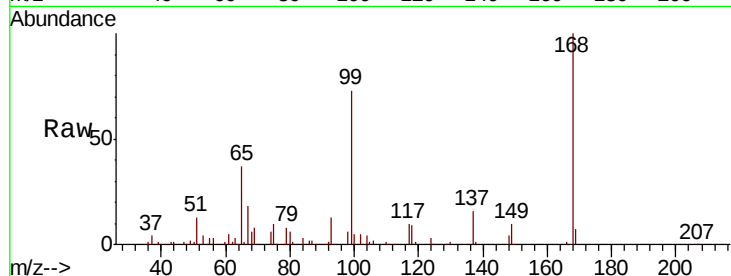
99 72.6 52.6 79.0

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

60000

50000

40000

30000

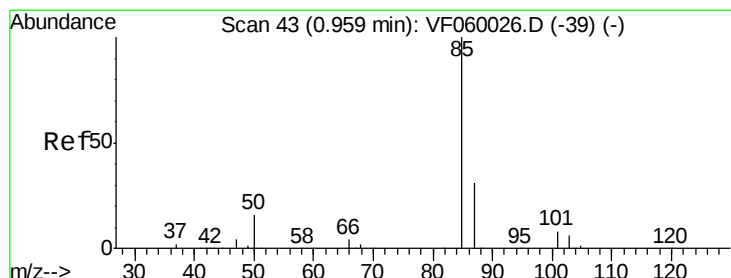
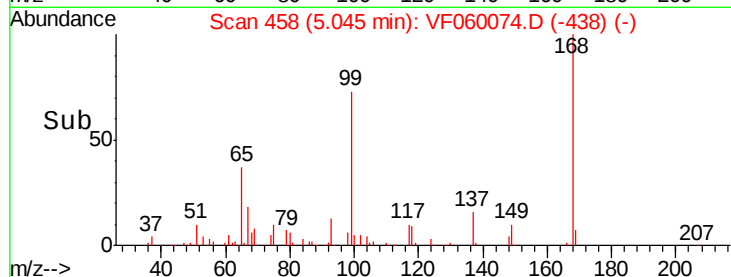
20000

10000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 23.06 ug/l

RT: 0.95 min Scan# 43

Delta R.T. -0.00 min

Lab File: VF060074.D

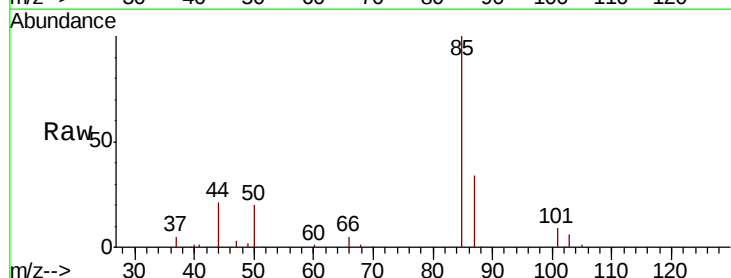
Acq: 24 Aug 2018 2:48

Tgt Ion: 85 Resp: 49816

Ion Ratio Lower Upper

85 100

87 34.4 15.3 45.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

30000

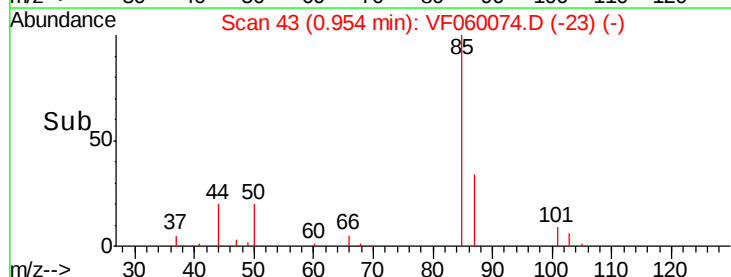
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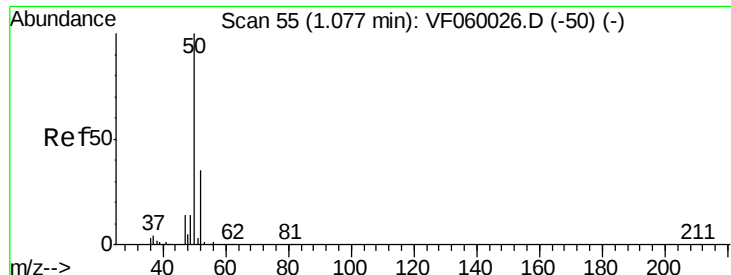
10000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 23.25 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion: 50 Resp: 35380

Ion Ratio Lower Upper

50 100

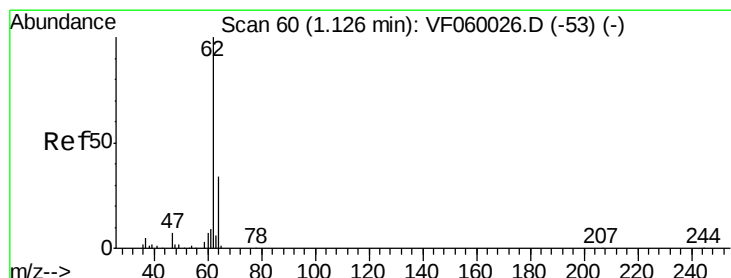
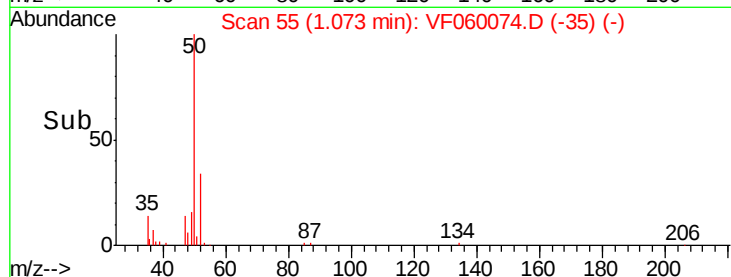
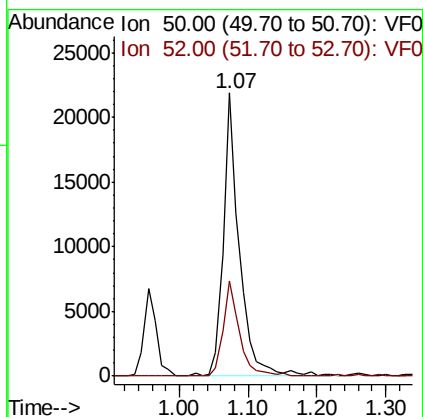
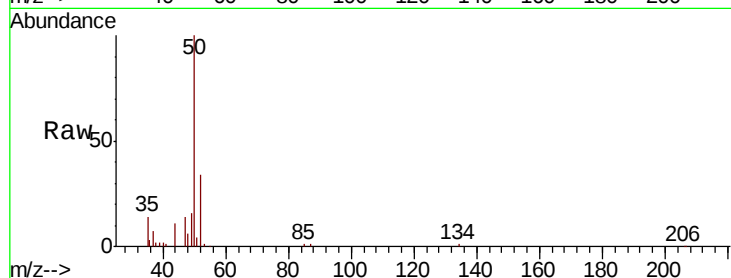
52 33.6 27.6 41.4

Manual Integrations

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8/24/2018 4:13:22 PM



#4

Vinyl Chloride

Concen: 19.28 ug/l

RT: 1.12 min Scan# 60

Delta R.T. -0.00 min

Lab File: VF060074.D

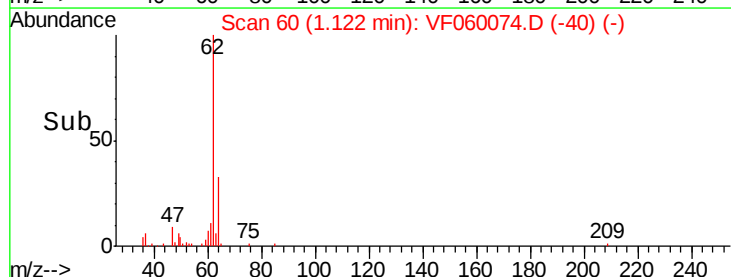
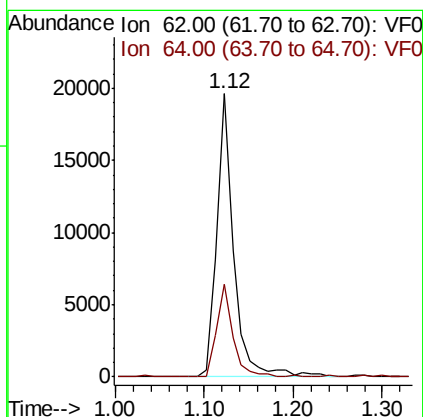
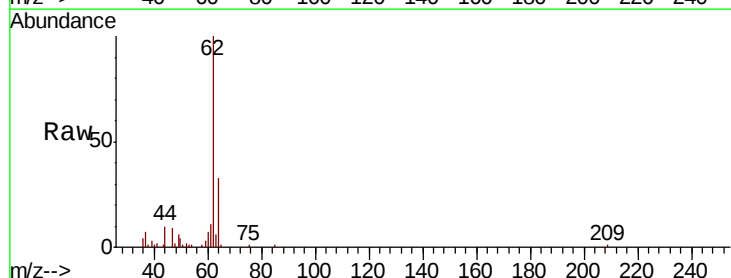
Acq: 24 Aug 2018 2:48

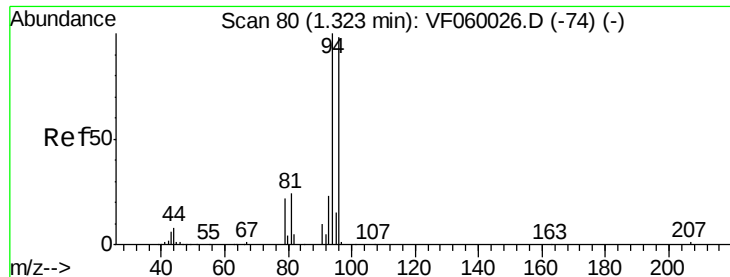
Tgt Ion: 62 Resp: 25867

Ion Ratio Lower Upper

62 100

64 32.7 27.4 41.2





#5

Bromomethane

Concen: 20.76 ug/l

RT: 1.32 min Scan# 80

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

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Tot Ion: 94 Resp: 21159

Ion Ratio Lower Upper

94 100

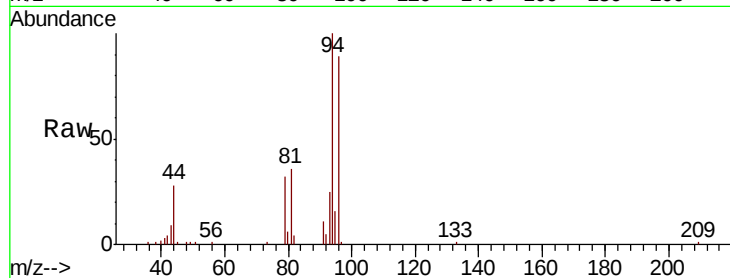
96 89.2 78.6 118.0

Manual Integrations

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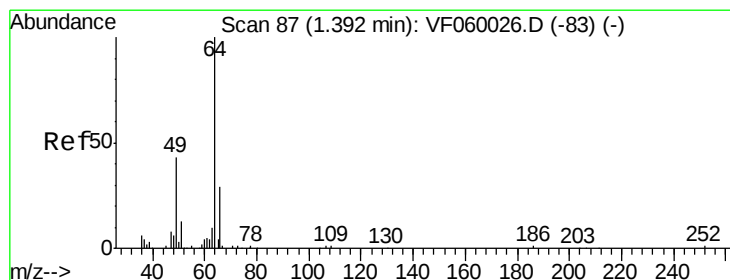
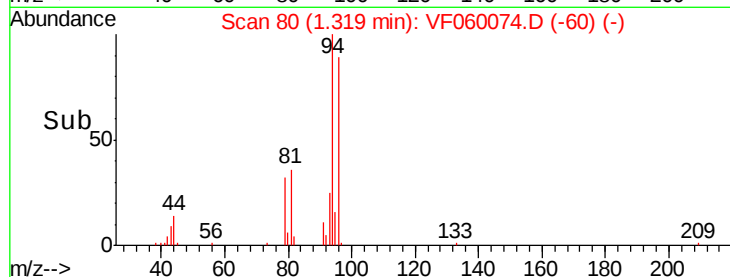
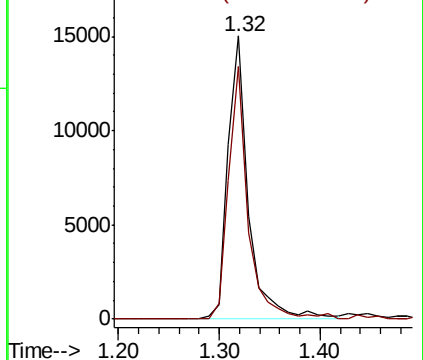
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 23.22 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.00 min

Lab File: VF060074.D

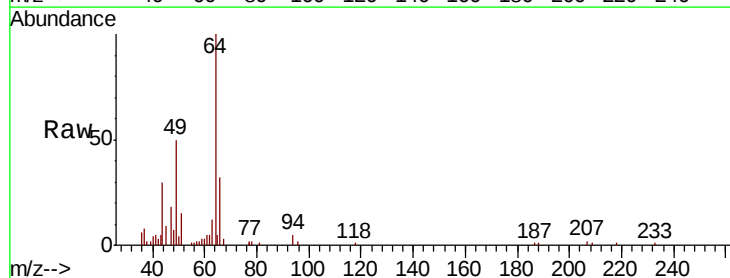
Acq: 24 Aug 2018 2:48

Tgt Ion: 64 Resp: 12277

Ion Ratio Lower Upper

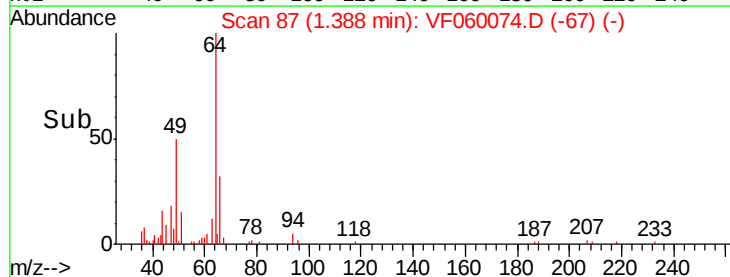
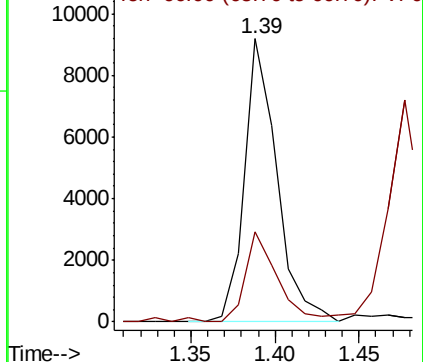
64 100

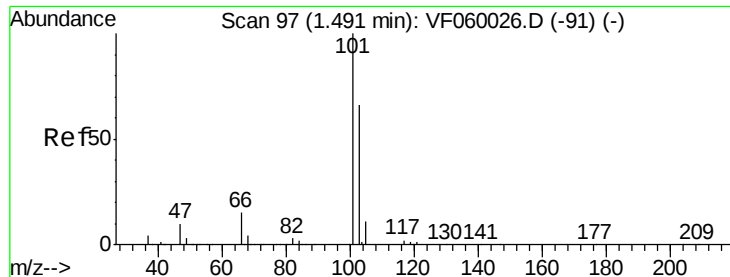
66 31.8 24.1 36.1



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 25.48 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.01 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion:101 Resp: 68740

Ion Ratio Lower Upper

101 100

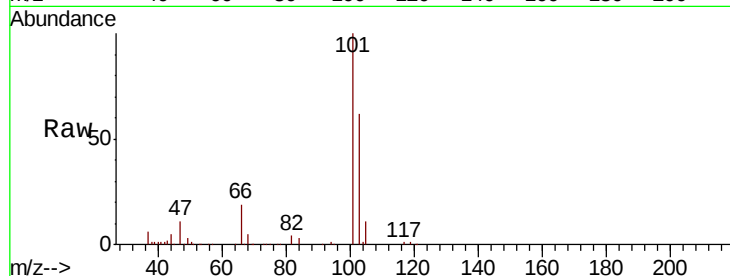
103 61.9 52.5 78.7

Manual Integrations

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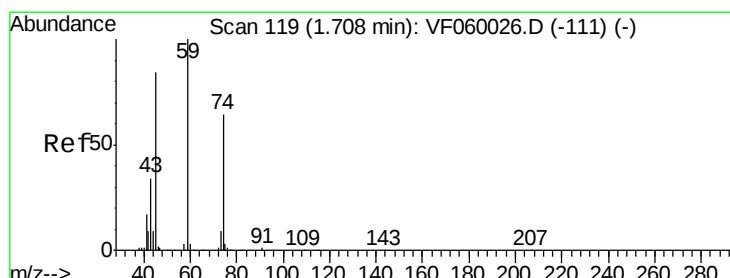
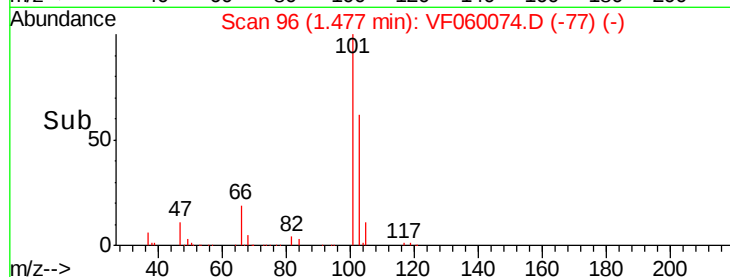
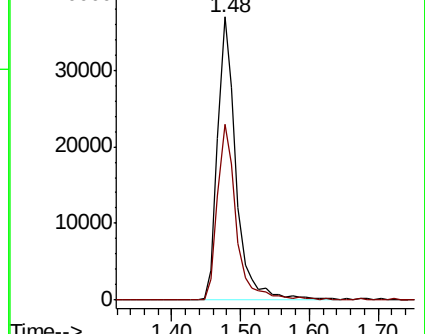
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 19.16 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF060074.D

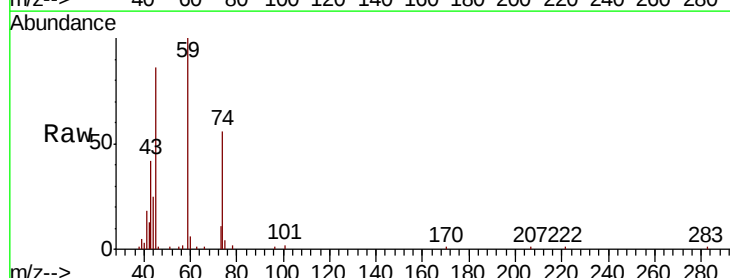
Acq: 24 Aug 2018 2:48

Tgt Ion: 74 Resp: 9240

Ion Ratio Lower Upper

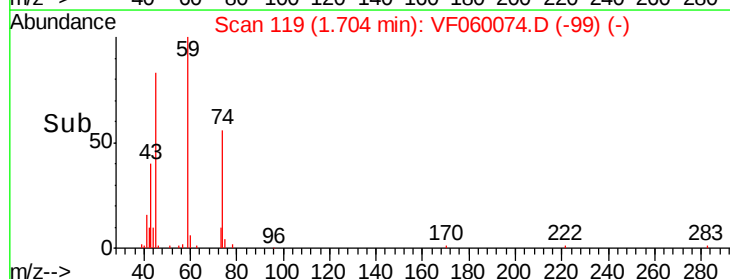
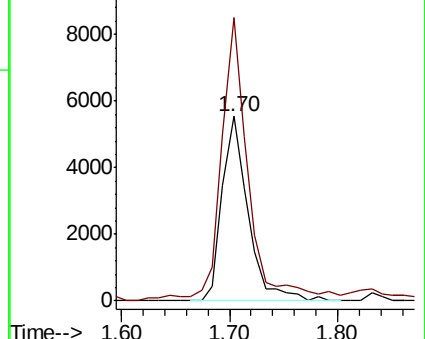
74 100

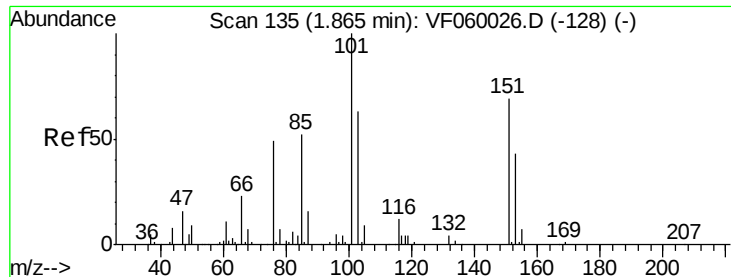
45 153.4 66.0 198.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.54 ug/l

RT: 1.86 min Scan# 135

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

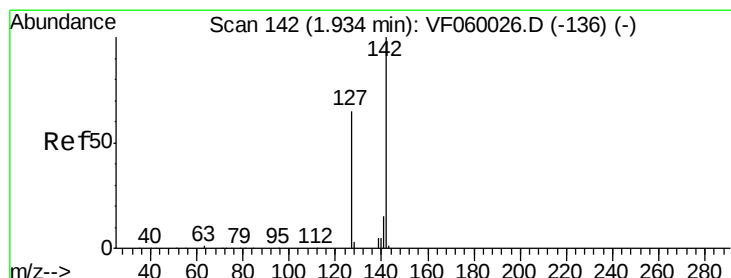
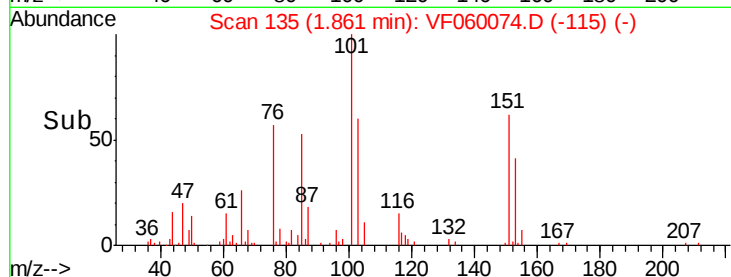
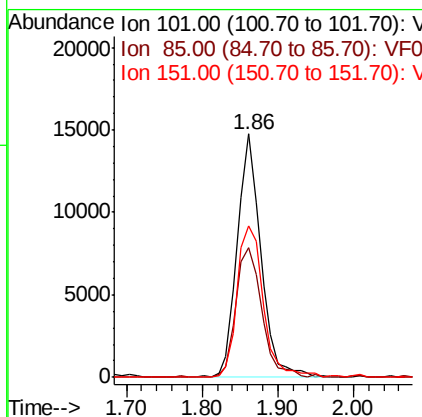
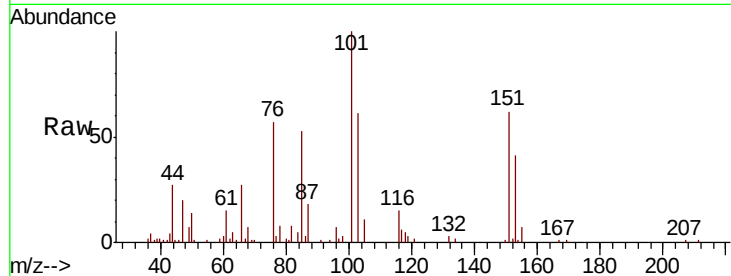
ClientSampleId :

VF0823SBS02

Tot Ion:	101	Resp:	31919
Ion Ratio	Lower	Upper	
101	100		
85	53.3	41.5	62.3
151	62.1	55.2	82.8

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#10

Methyl Iodide

Concen: 20.94 ug/l

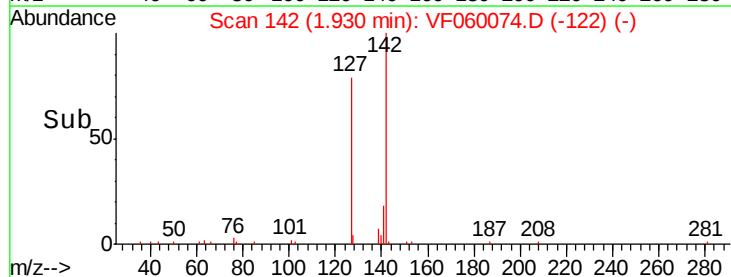
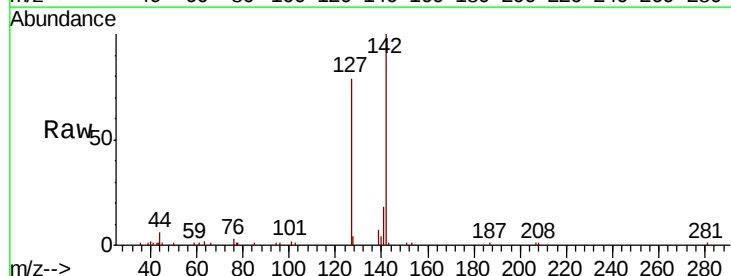
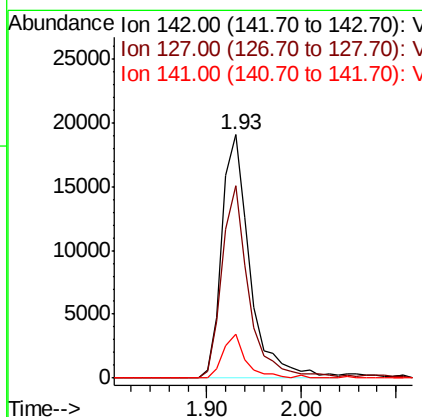
RT: 1.93 min Scan# 142

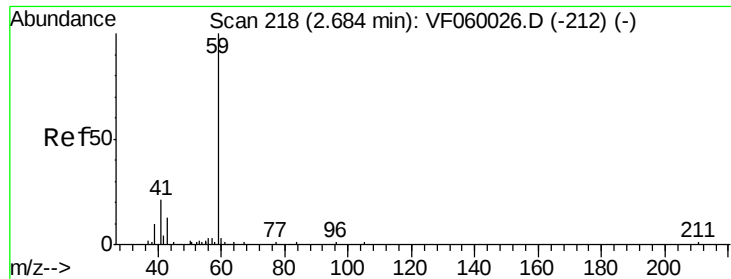
Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tgt Ion:	142	Resp:	39203
Ion Ratio	Lower	Upper	
142	100		
127	79.2	51.8	77.6#
141	18.1	11.9	17.9#





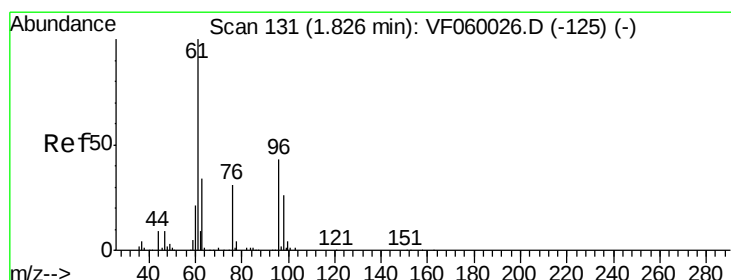
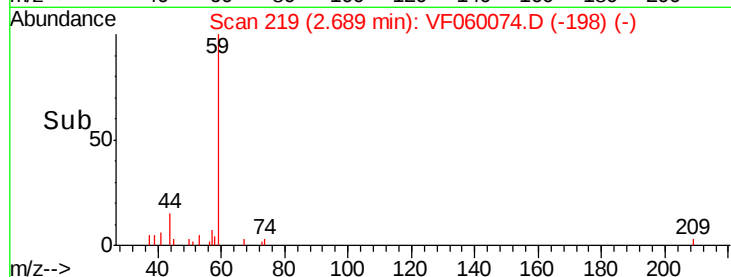
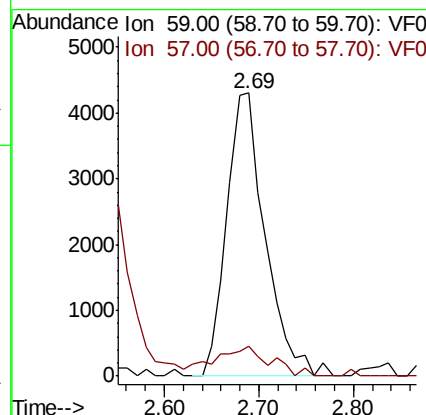
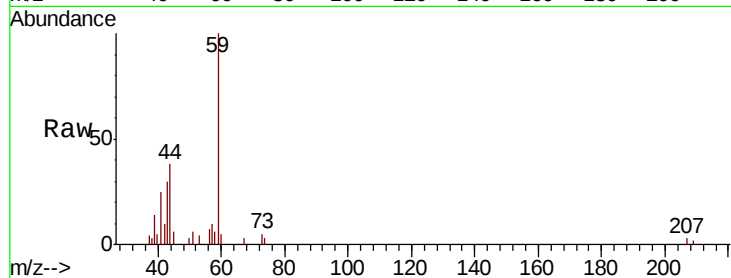
#11
Tert butyl alcohol
Concen: 101.84 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	5.4	8.2#

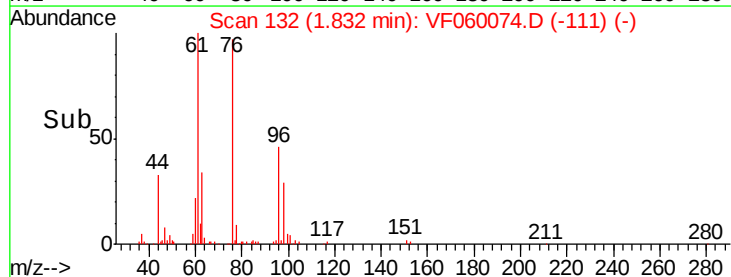
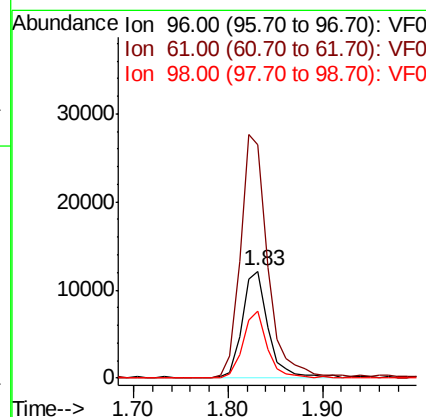
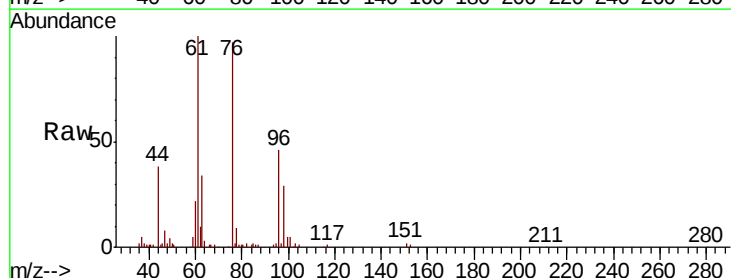
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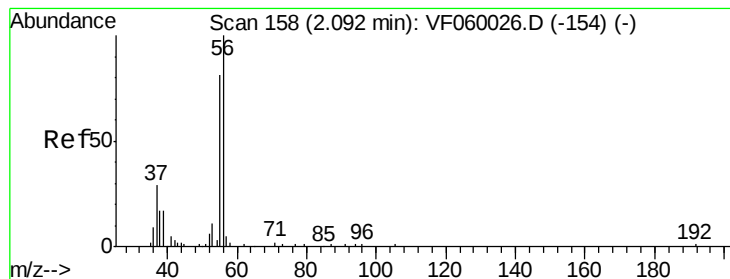
MMDadoda
8/24/2018 4:13:22 PM



#12
1,1-Dichloroethene
Concen: 22.26 ug/l
RT: 1.83 min Scan# 132
Delta R.T. 0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	210.9	185.0	277.6
98	60.4	47.8	71.8





#13

Acrolein

Concen: 71.01 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion: 56 Resp: 3646

Ion Ratio Lower Upper

56 100

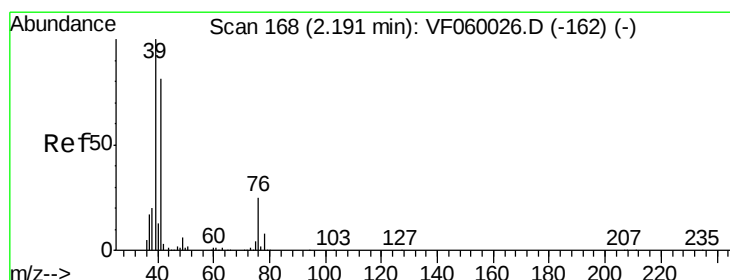
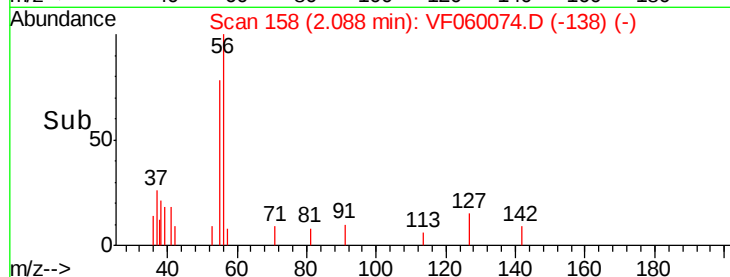
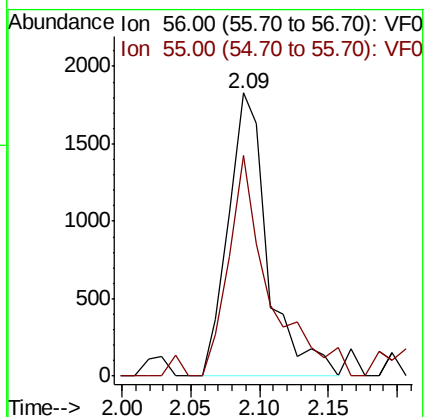
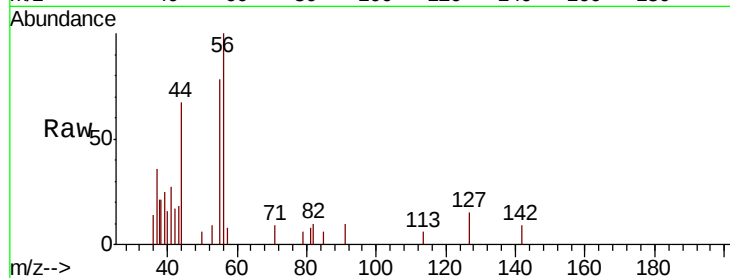
55 78.2 65.6 98.4

Manual Integrations

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#14

Allyl chloride

Concen: 20.46 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

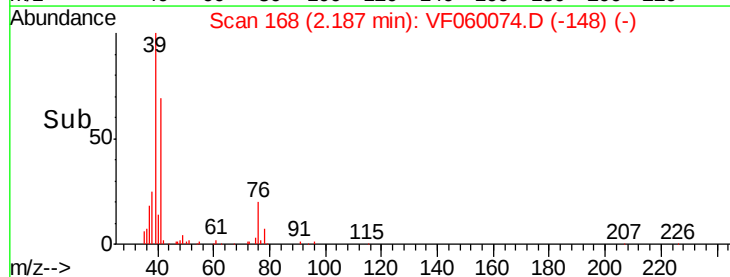
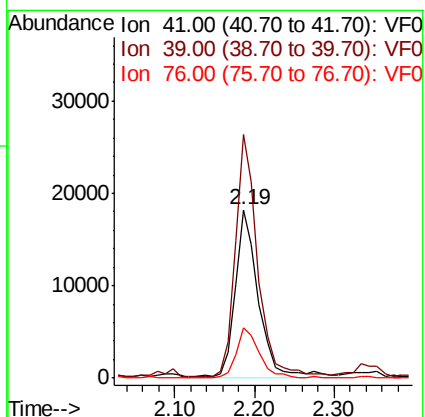
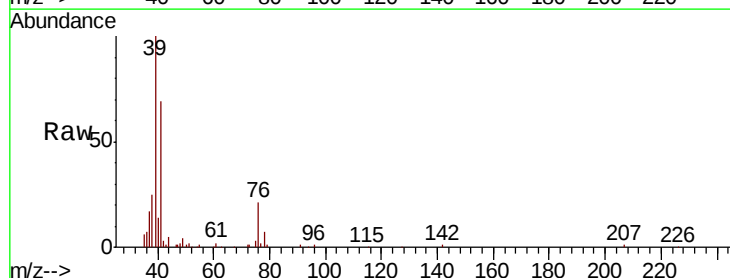
Tgt Ion: 41 Resp: 37905

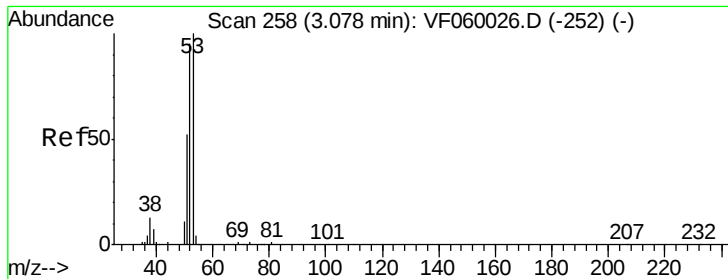
Ion Ratio Lower Upper

41 100

39 144.4 99.3 148.9

76 29.9 24.3 36.5





#15

Acrylonitrile

Concen: 95.27 ug/l

RT: 3.08 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

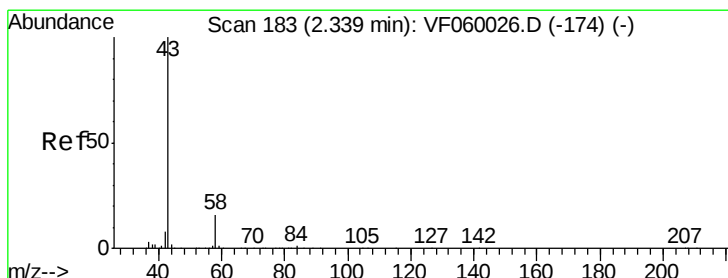
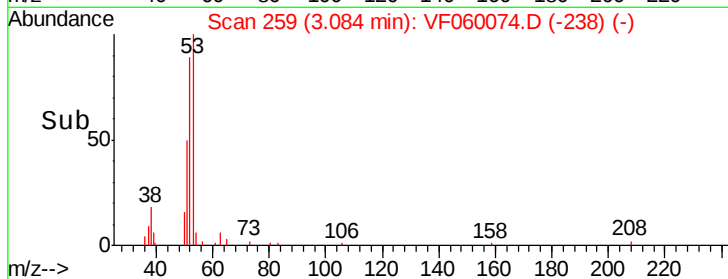
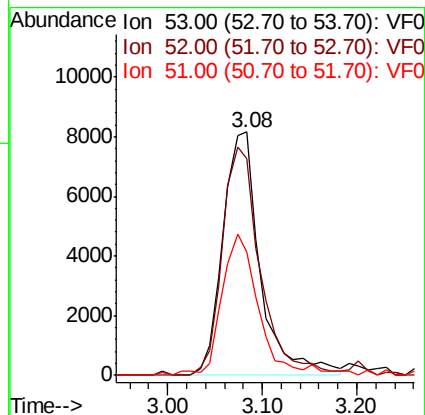
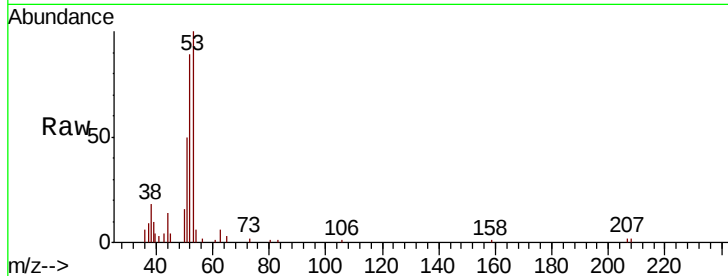
ClientSampleId :

VF0823SBS02

Tot Ion:	53	Resp:	22465
Ion	Ratio	Lower	Upper
53	100		
52	88.8	75.8	113.8
51	50.4	42.1	63.1

Manual Integrations
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#16

Acetone

Concen: 92.35 ug/l

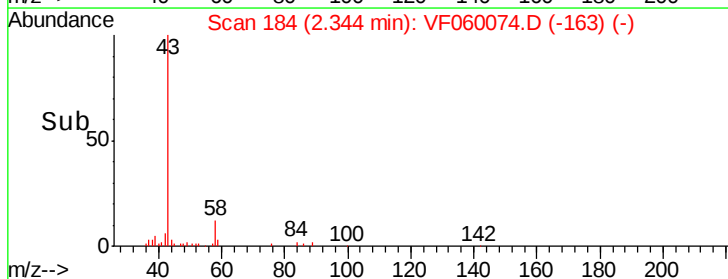
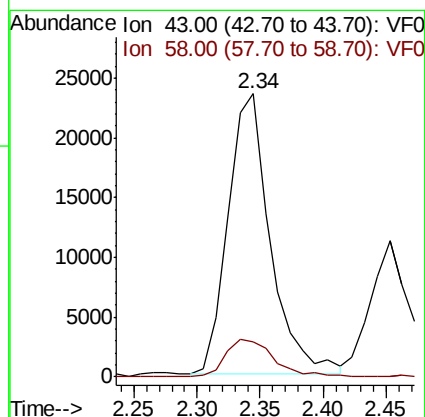
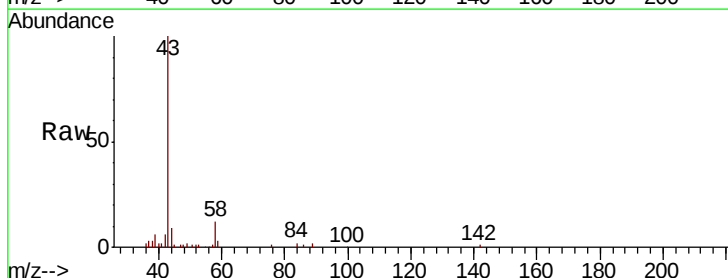
RT: 2.34 min Scan# 184

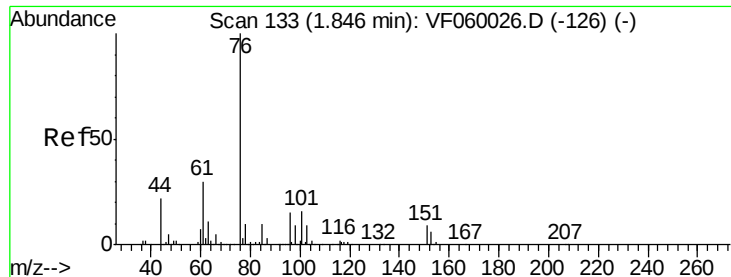
Delta R.T. 0.01 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tgt Ion:	43	Resp:	54514
Ion	Ratio	Lower	Upper
43	100		
58	12.3	12.6	19.0#





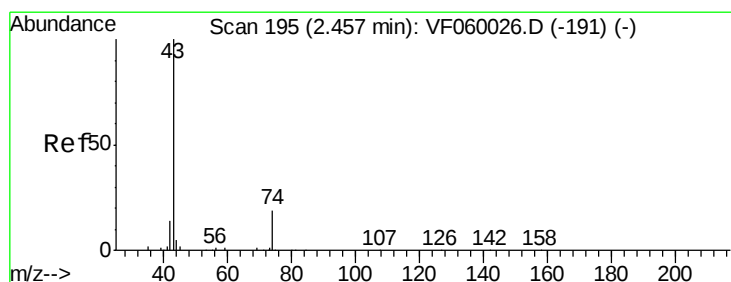
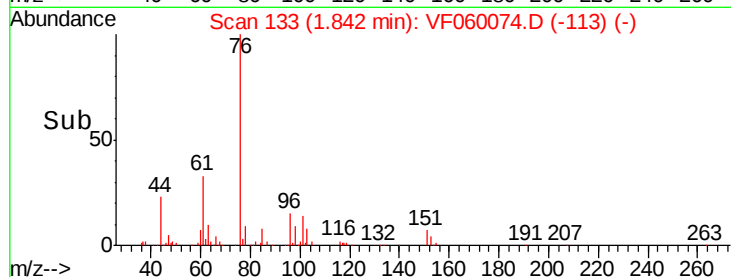
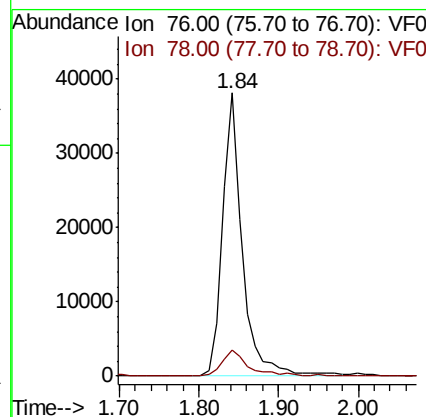
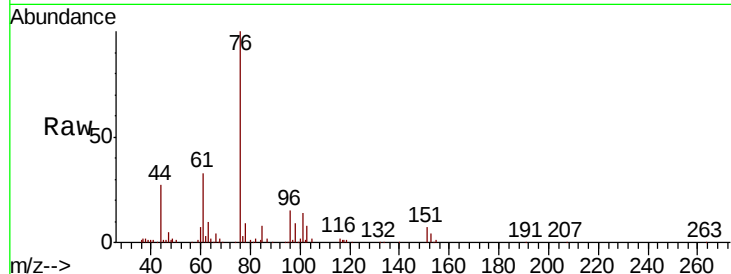
#17
Carbon Disulfide
Concen: 20.59 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	8.4	12.6

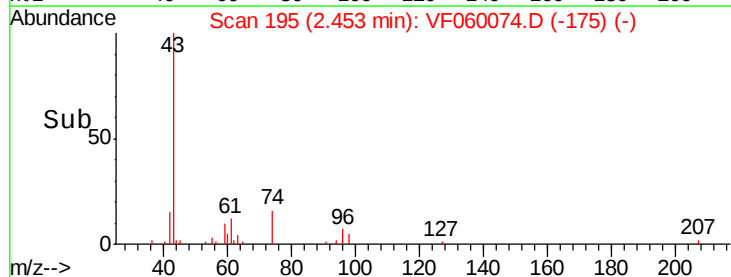
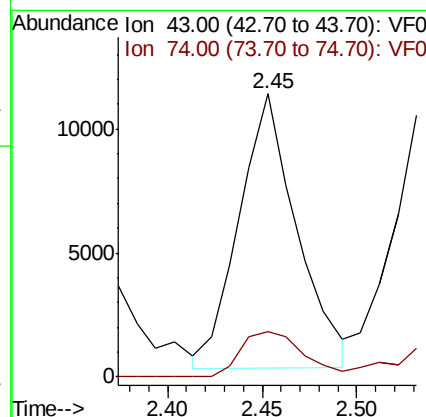
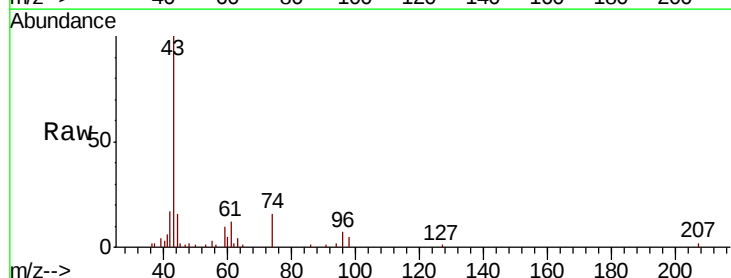
Manual Integrations
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8/24/2018 4:13:22 PM



#18
Methyl Acetate
Concen: 20.95 ug/l
RT: 2.45 min Scan# 195
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
43	100		
74	16.0	13.8	20.6





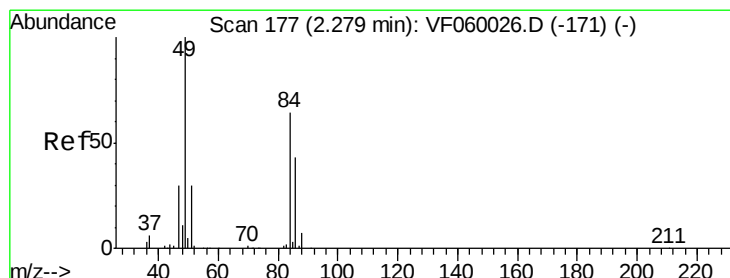
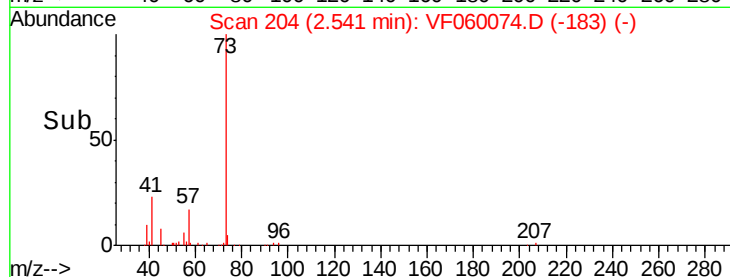
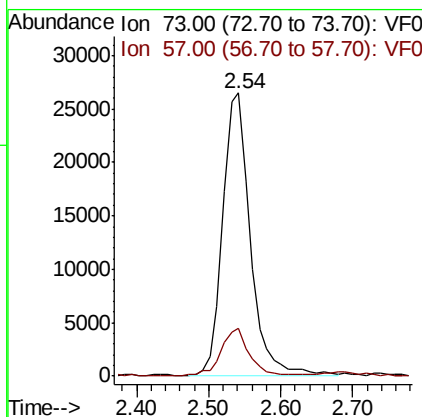
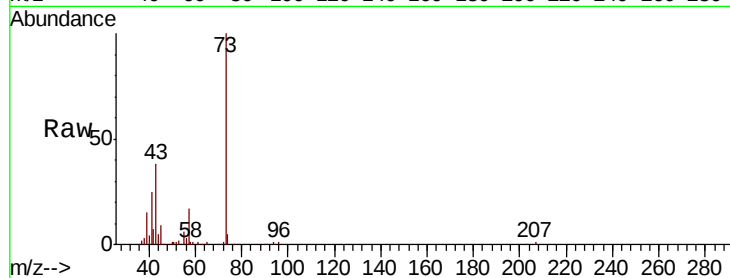
#19
Methyl tert-butyl Ether
Concen: 21.17 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.0	13.7	20.5

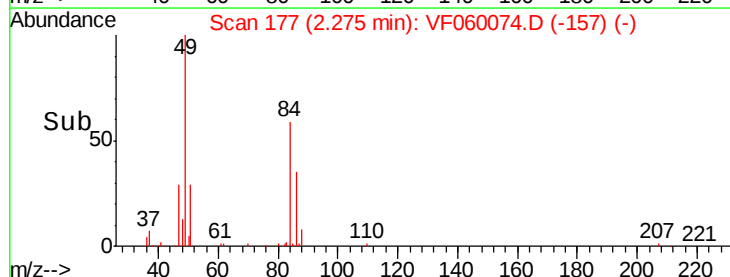
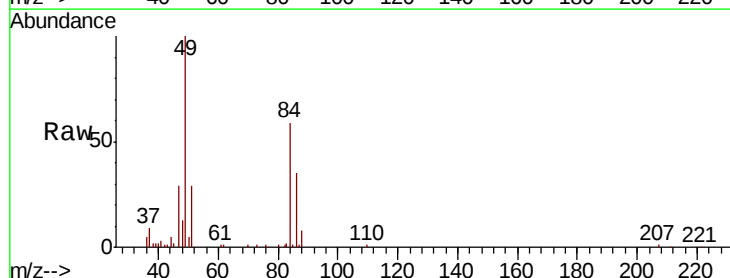
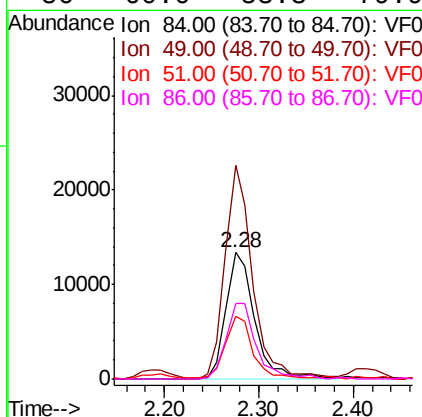
Manual Integrations
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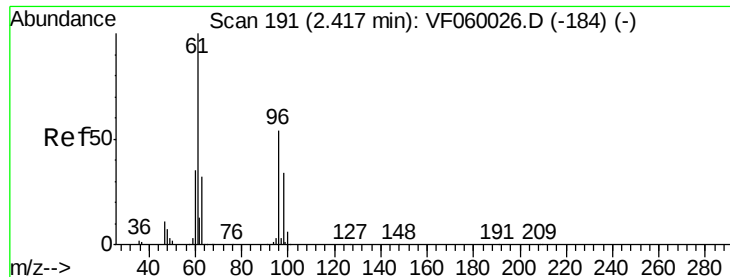
MMDadoda
8/24/2018 4:13:22 PM



#20
Methylene Chloride
Concen: 21.41 ug/l
RT: 2.28 min Scan# 177
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
84	100		
49	169.1	125.4	188.0
51	49.2	38.3	57.5
86	60.0	53.3	79.9





#21

trans-1,2-Dichloroethene

Concen: 19.88 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

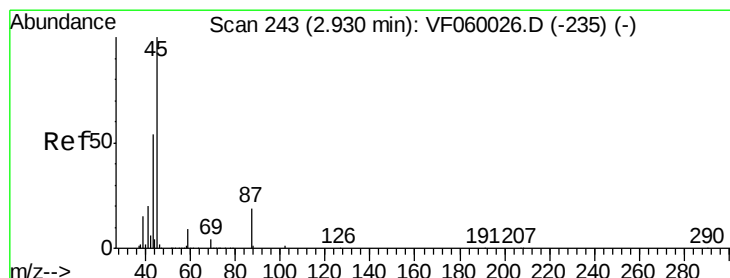
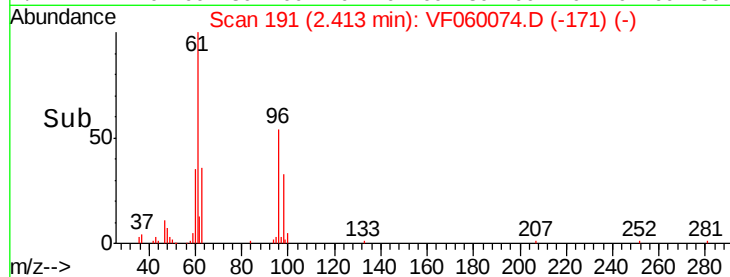
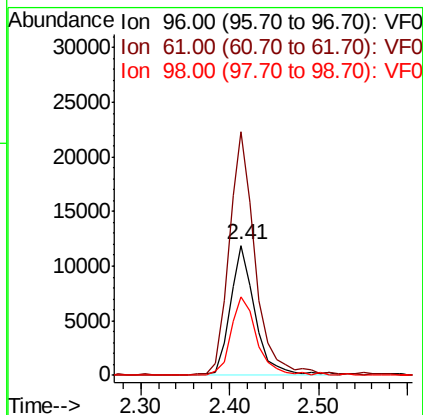
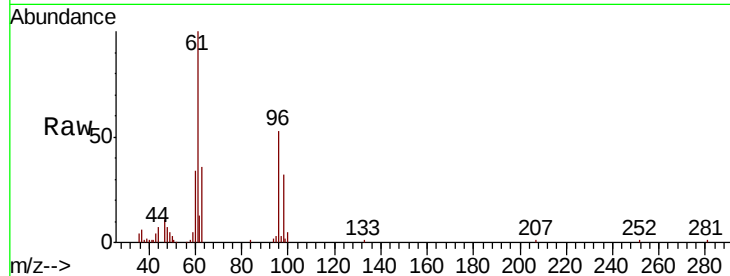
ClientSampleId :

VF0823SBS02

Tot Ion:	96	Resp:	23202
Ion	Ratio	Lower	Upper
96	100		
61	187.5	147.4	221.0
98	60.7	49.8	74.6

Manual Integrations
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#22

Diisopropyl ether

Concen: 18.05 ug/l

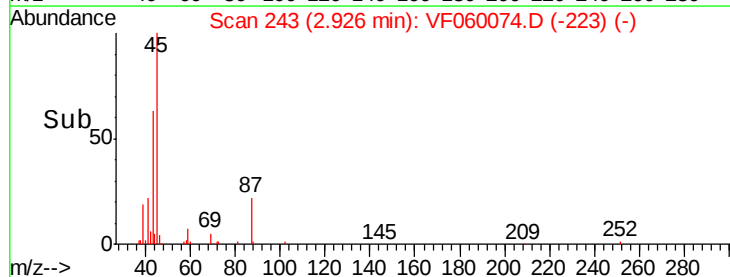
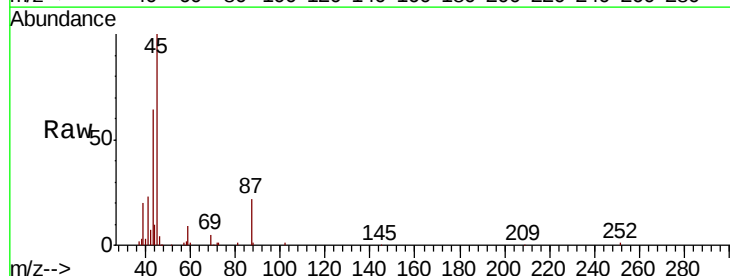
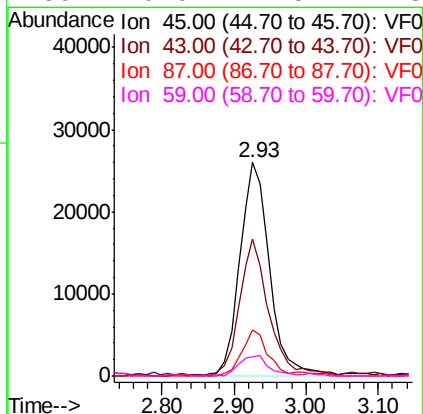
RT: 2.93 min Scan# 243

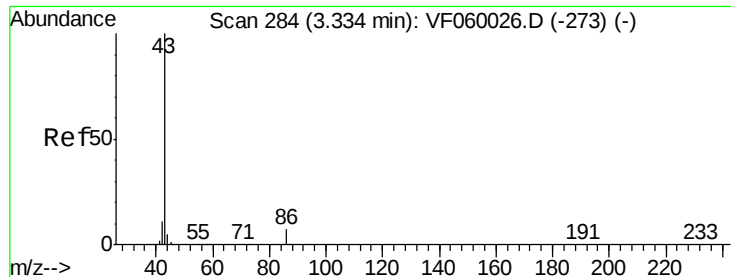
Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tgt Ion:	45	Resp:	74893
Ion	Ratio	Lower	Upper
45	100		
43	64.1	43.4	65.2
87	21.8	15.4	23.2
59	9.0	7.5	11.3





#23

Vinyl Acetate

Concen: 93.65 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

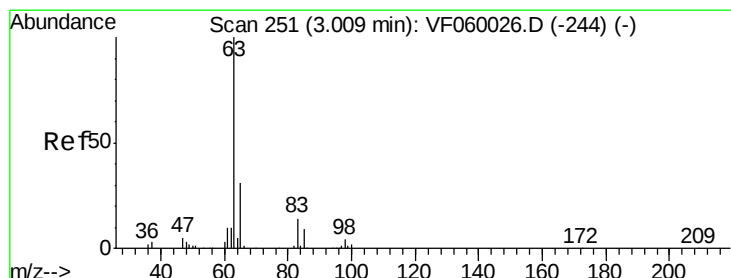
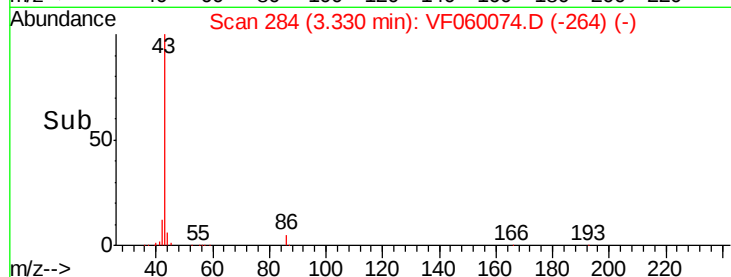
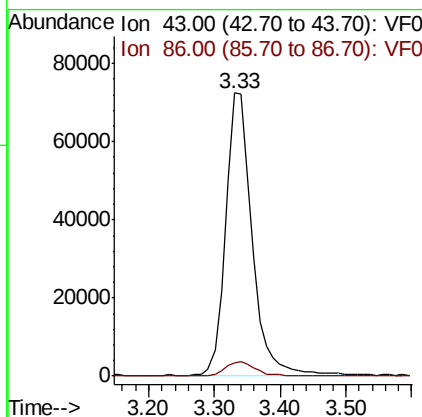
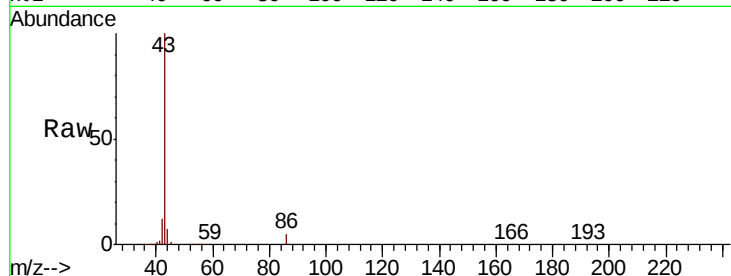
ClientSampleId :

VF0823SBS02

Tot Ion	43	Resp	205816
Ion	Ratio	Lower	Upper
43	100		
86	4.8	5.6	8.4#

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 21.68 ug/l

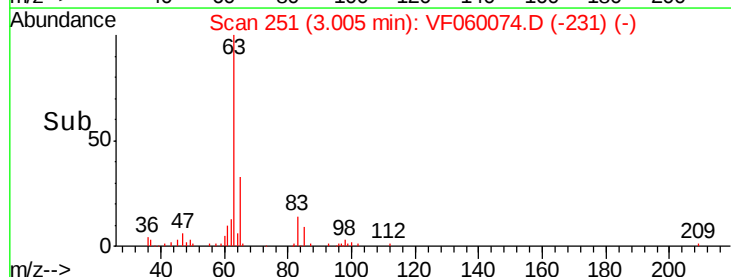
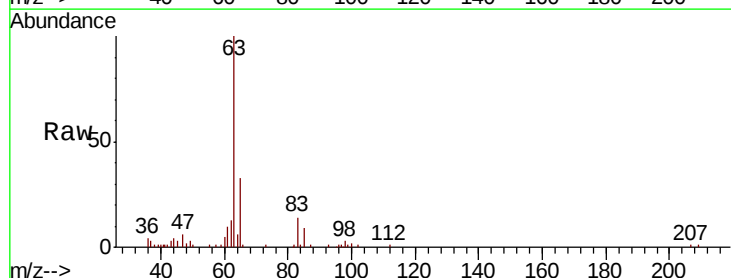
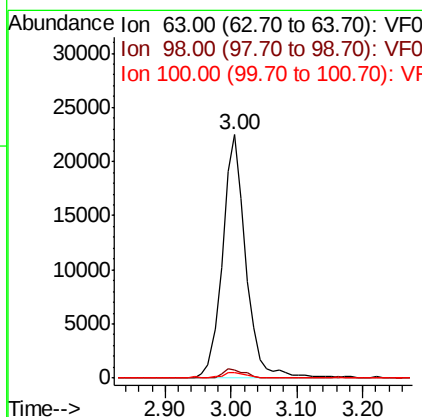
RT: 3.00 min Scan# 251

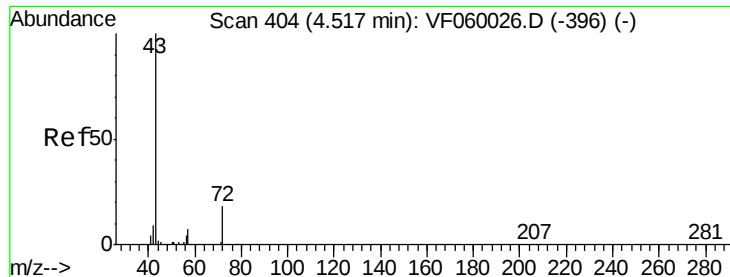
Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tgt Ion	63	Resp	55559
Ion	Ratio	Lower	Upper
63	100		
98	3.3	2.1	6.5
100	2.5	1.1	3.3





#25

2-Butanone

Concen: 107.26 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion: 43 Resp: 82242

Ion Ratio Lower Upper

43 100

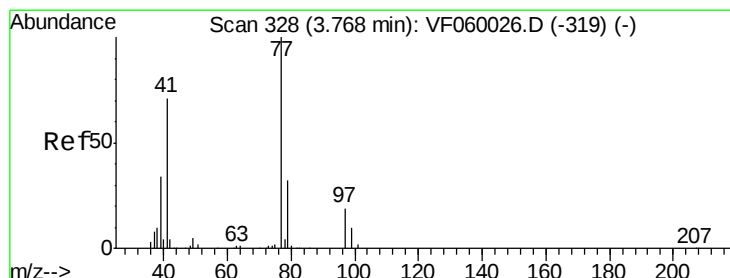
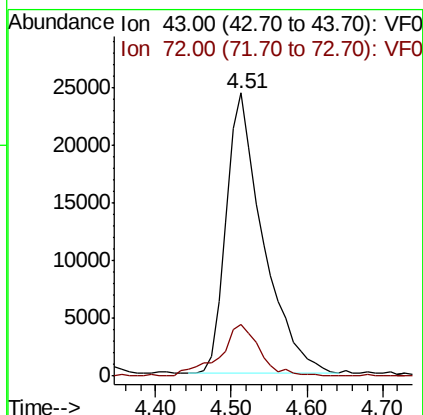
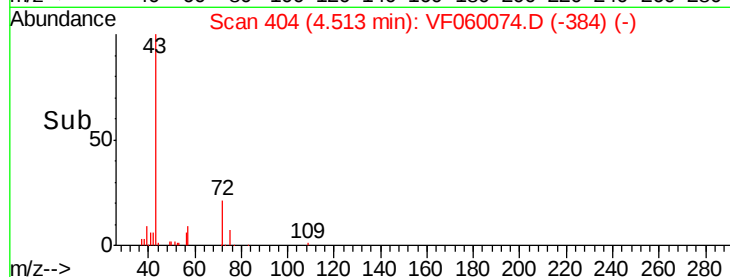
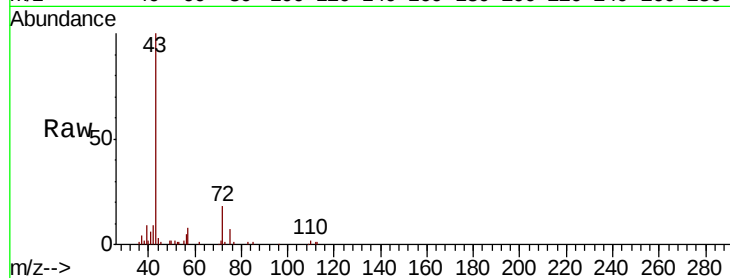
72 18.5 15.0 22.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 18.03 ug/l

RT: 3.76 min Scan# 328

Delta R.T. -0.00 min

Lab File: VF060074.D

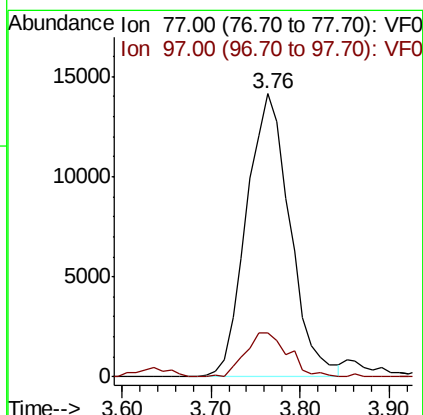
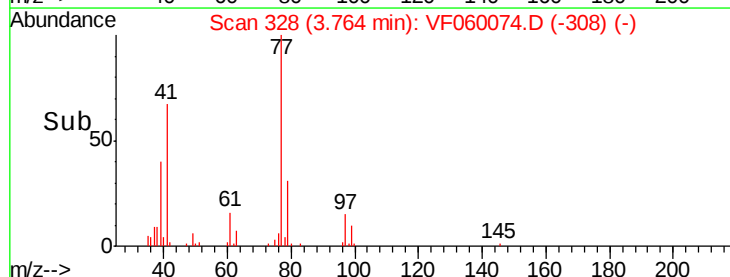
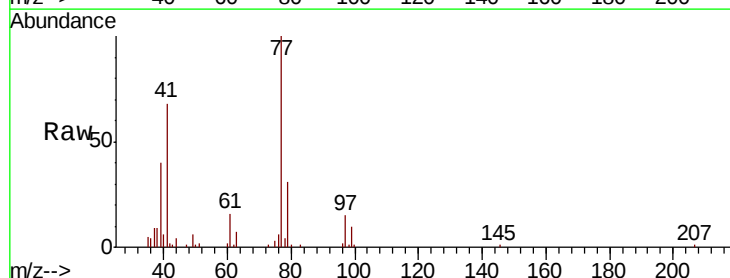
Acq: 24 Aug 2018 2:48

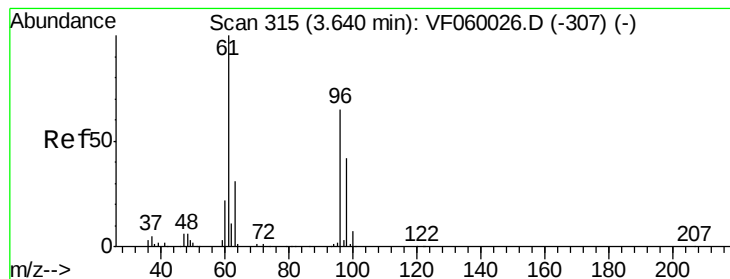
Tgt Ion: 77 Resp: 47817

Ion Ratio Lower Upper

77 100

97 15.4 9.7 29.1





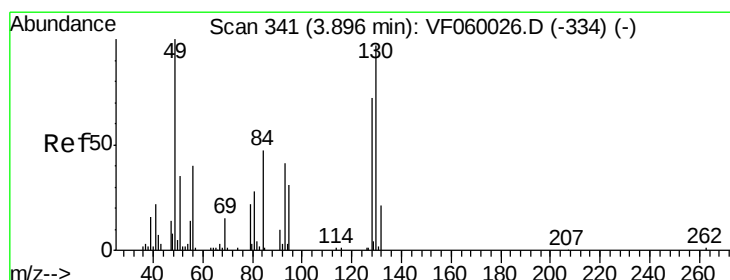
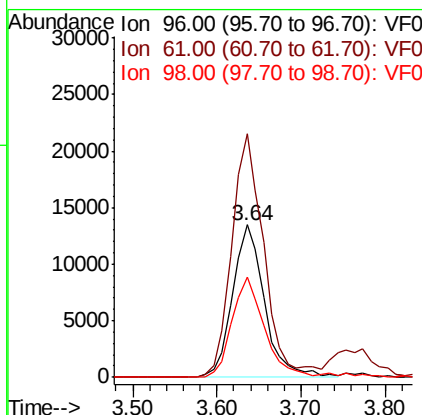
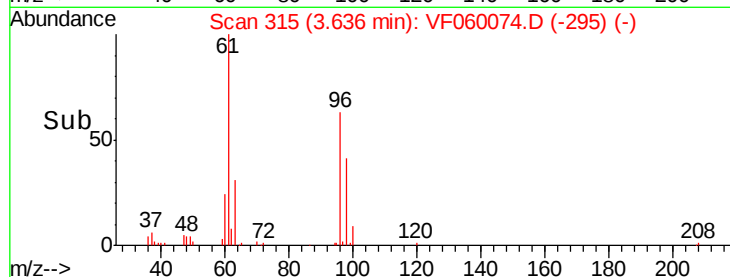
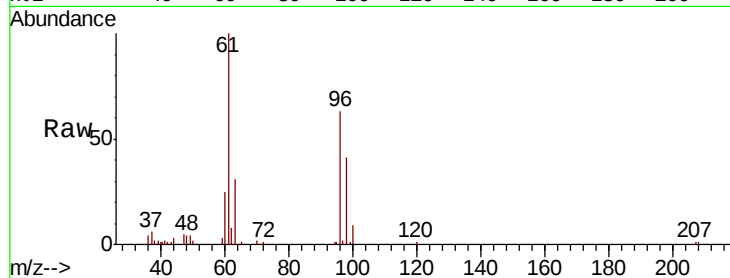
#27
 cis-1,2-Dichloroethene
 Concen: 21.53 ug/l
 RT: 3.64 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	35617		
61	160.0	0.0	307.6	
98	66.2	0.0	128.4	

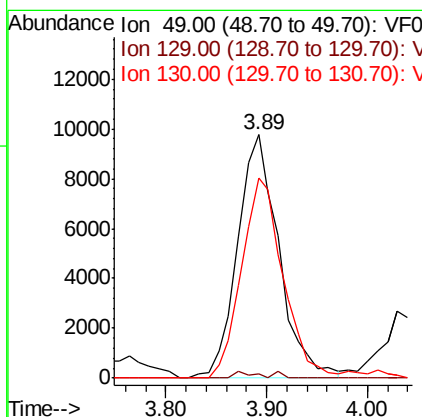
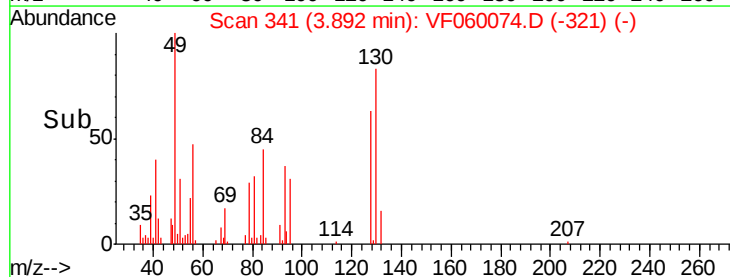
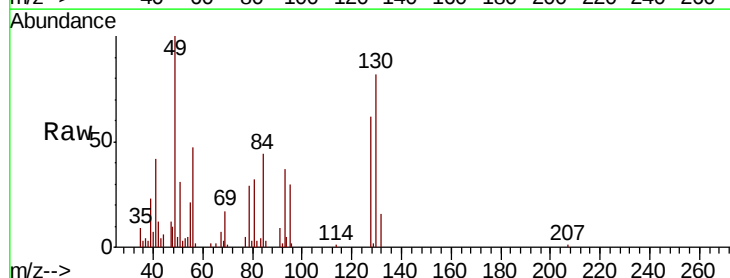
Manual Integrations
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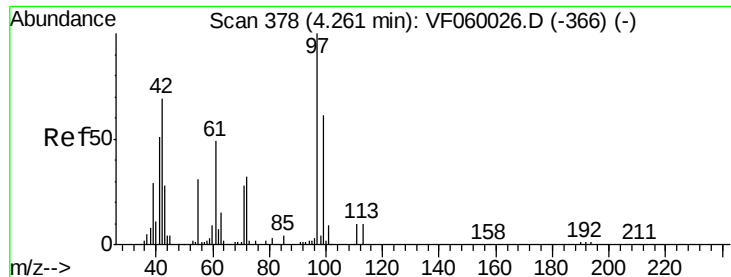
MMDadoda
 8/24/2018 4:13:22 PM



#28
 Bromochloromethane
 Concen: 25.72 ug/l
 RT: 3.89 min Scan# 341
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	27829		
129	1.8	0.0	7.4	
130	81.9	78.0	117.0	





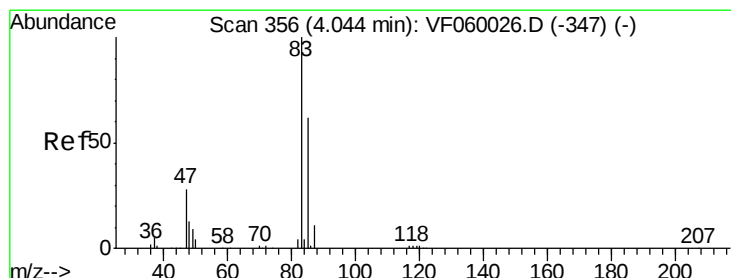
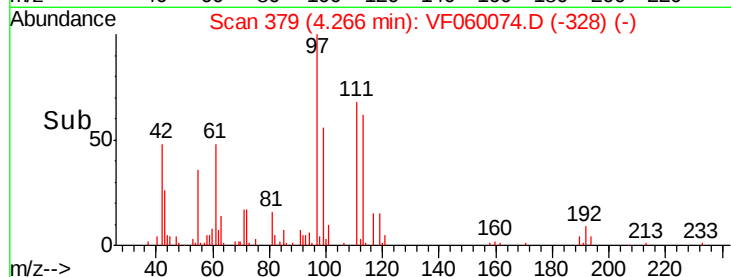
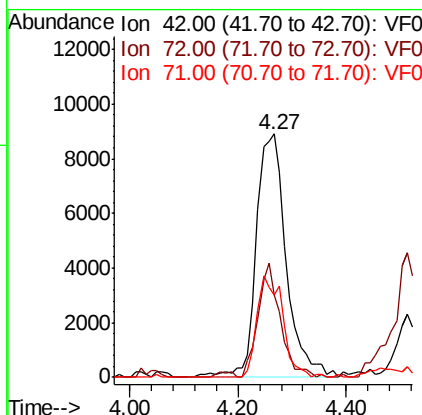
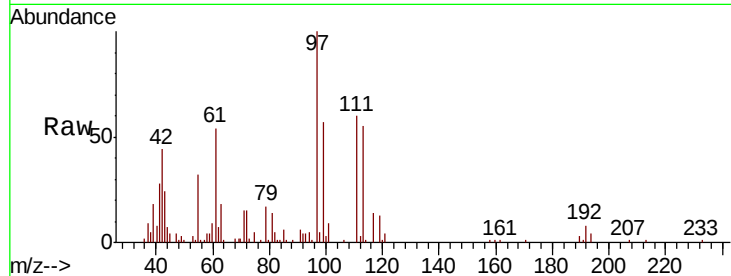
#29
Tetrahydrofuran
Concen: 118.59 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.1	31.4	47.2
71	35.5	29.7	44.5

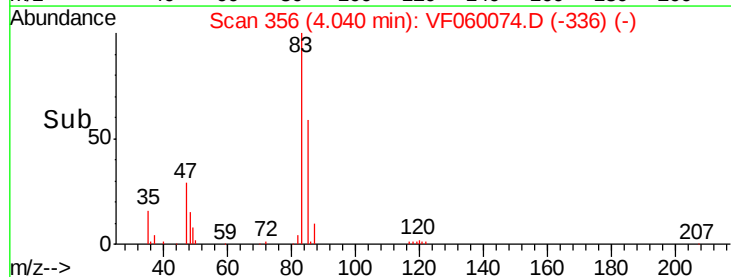
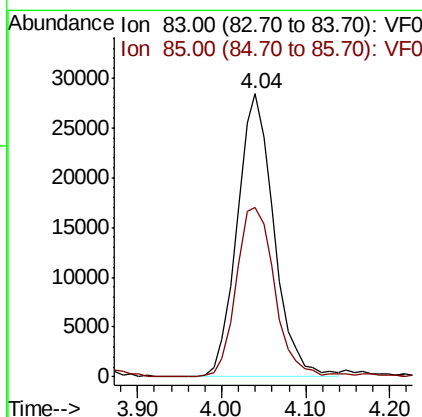
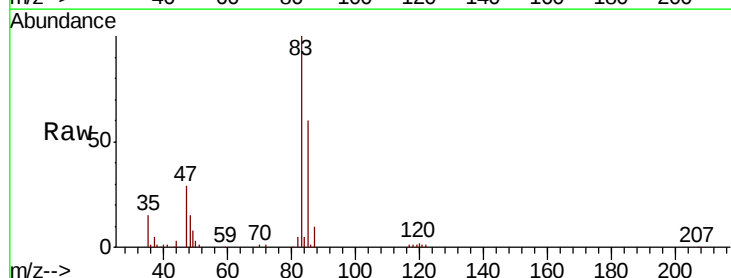
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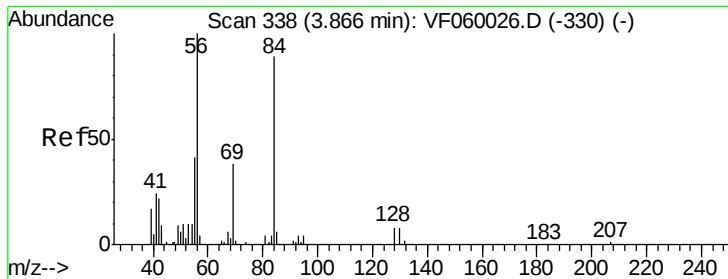
MMDadoda
8/24/2018 4:13:22 PM



#30
Chloroform
Concen: 24.03 ug/l
RT: 4.04 min Scan# 356
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.7	49.5	74.3





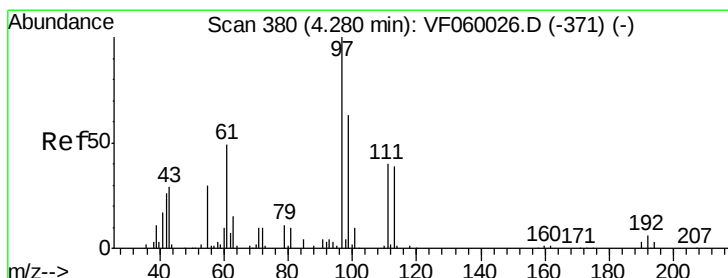
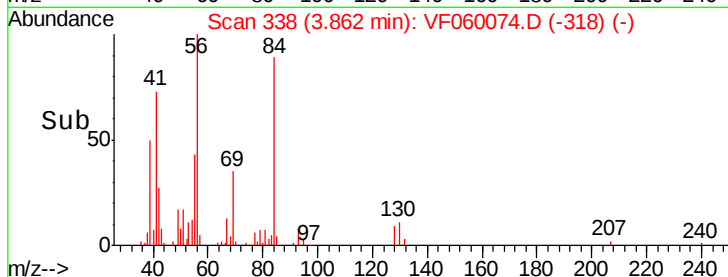
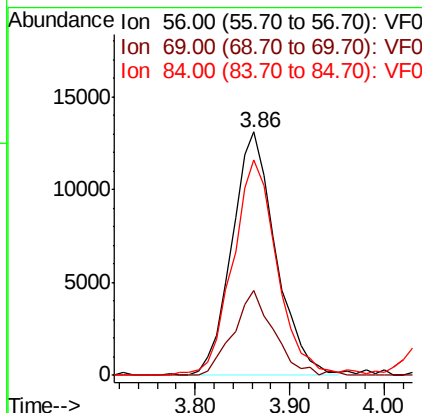
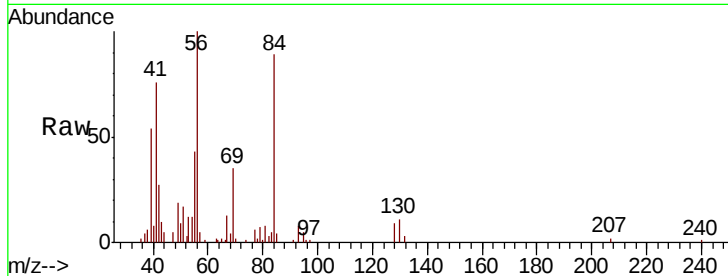
#31
Cyclohexane
Concen: 21.51 ug/l
RT: 3.86 min Scan# 338
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.0	30.4	45.6
84	88.6	71.4	107.2

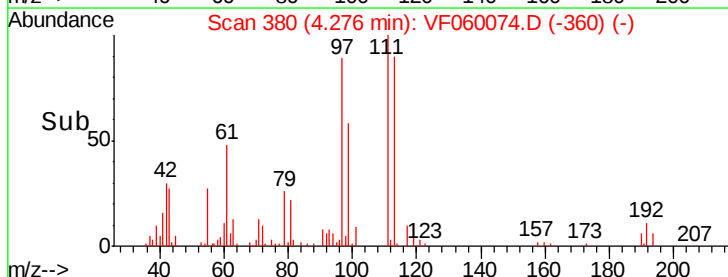
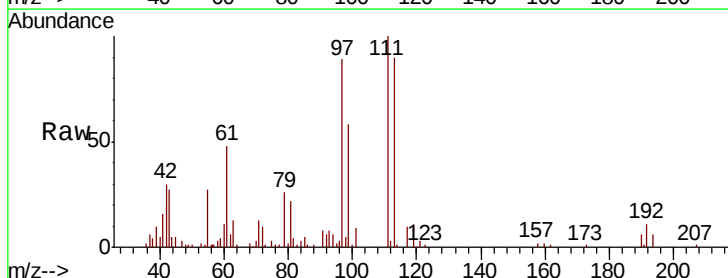
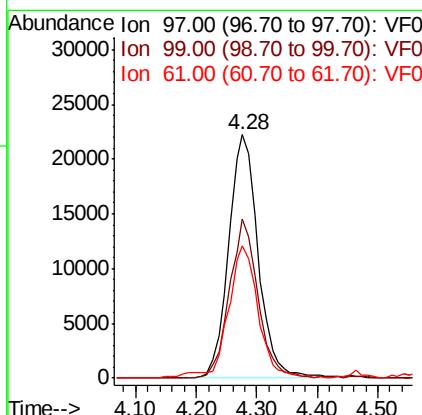
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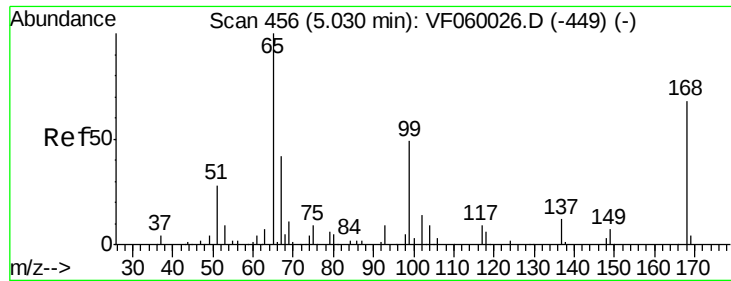
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 24.43 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	50.3	75.5
61	54.5	40.3	60.5





#33

1,2-Dichloroethane-d4

Concen: 55.64 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tot Ion: 65 Resp: 124961

Ion Ratio Lower Upper

65 100

67 46.7 0.0 92.0

Instrument :

MSVOA_F

ClientSampleId :

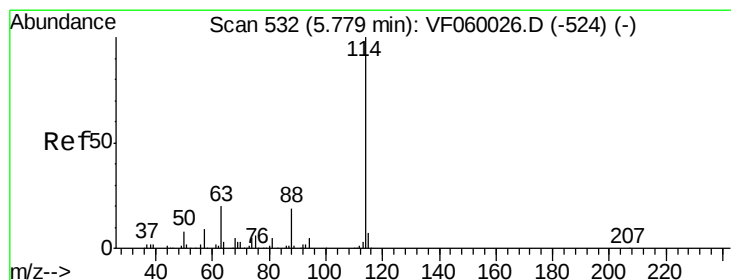
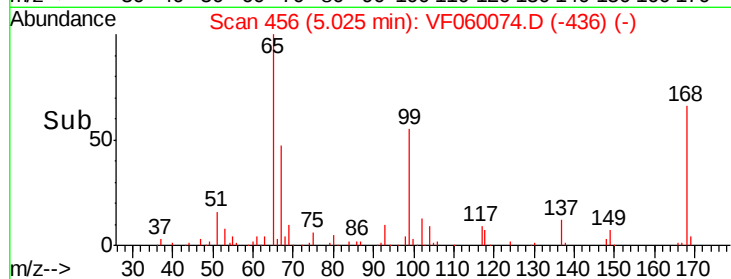
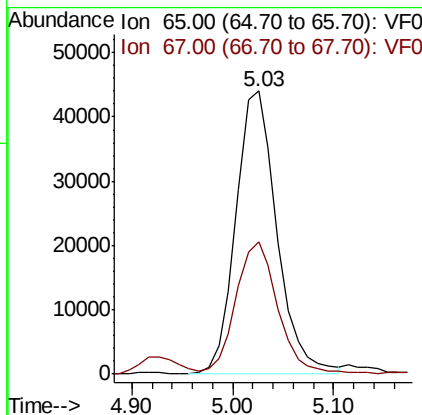
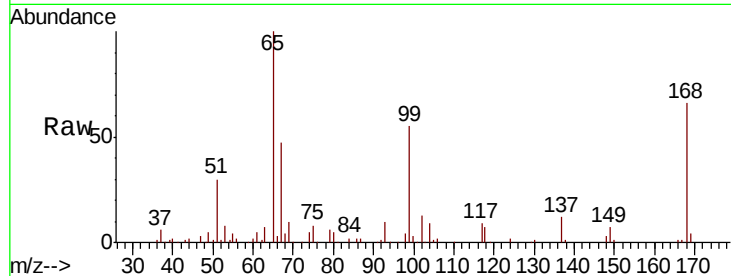
VF0823SBS02

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.01 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

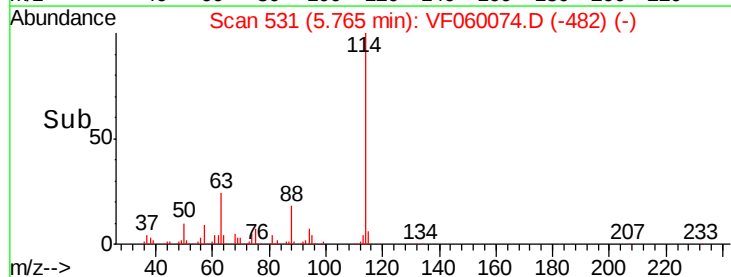
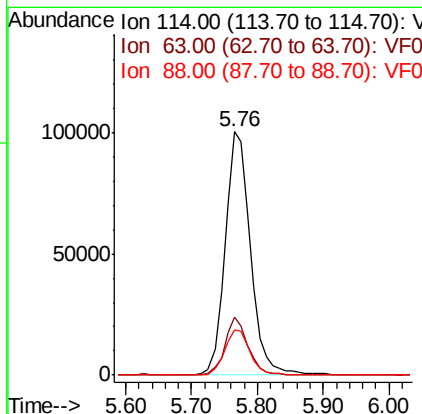
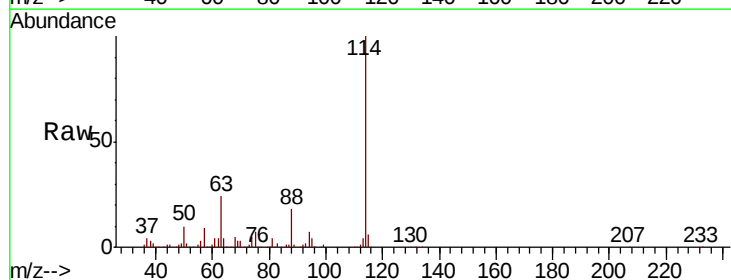
Tgt Ion: 114 Resp: 269437

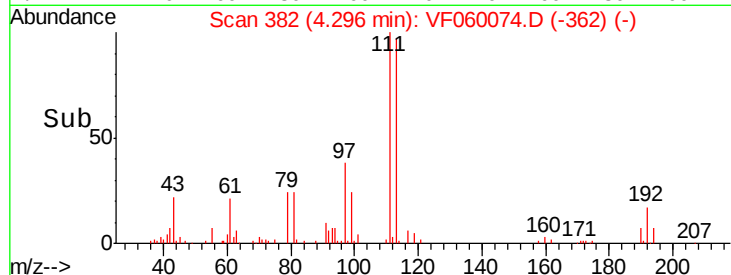
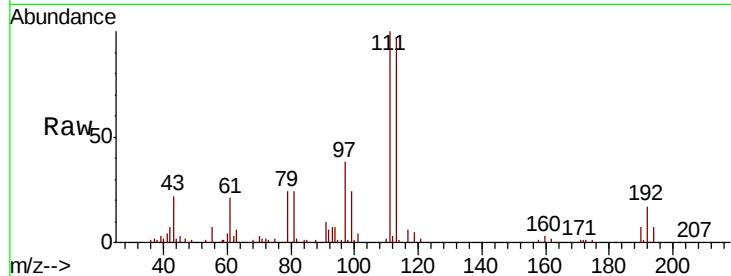
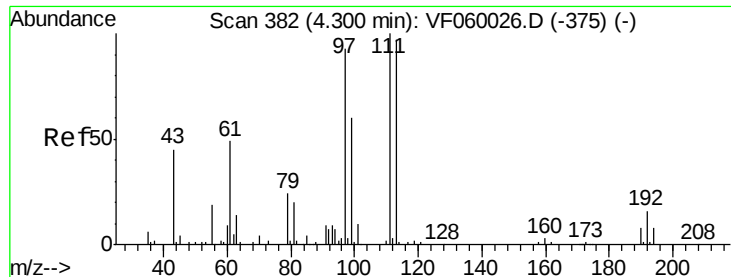
Ion Ratio Lower Upper

114 100

63 23.7 0.0 40.4

88 18.4 0.0 38.6





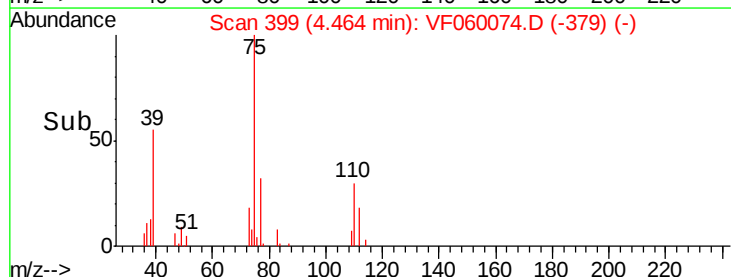
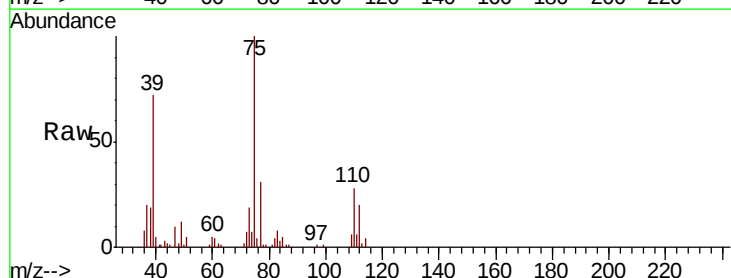
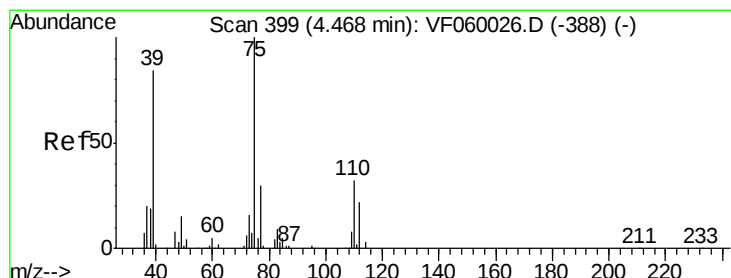
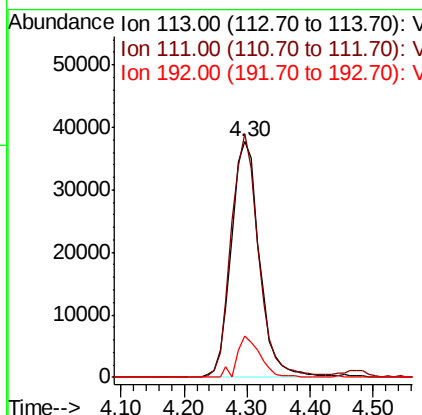
#35
Dibromofluoromethane
Concen: 55.09 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tot Ion	Ratio	Resp	Lower	Upper
113	100	116561		
111	103.3	82.7	124.1	
192	17.7	13.0	19.4	

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

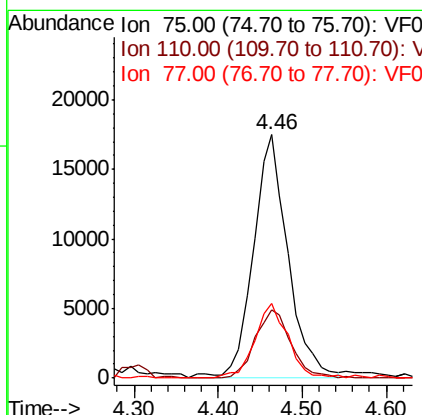
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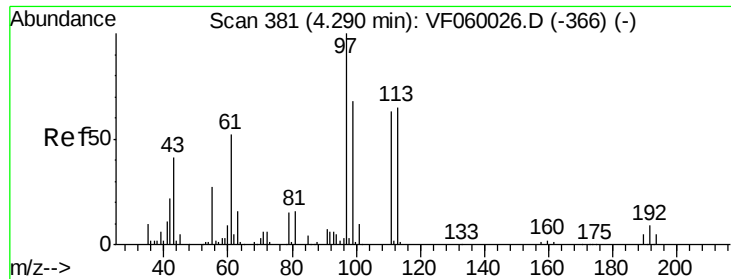
MMDadoda
8/24/2018 4:13:22 PM



#36
1,1-Dichloropropene
Concen: 19.91 ug/l
RT: 4.46 min Scan# 399
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	50402		
110	28.3	16.0	47.9	
77	30.5	24.1	36.1	





#37

Ethyl Acetate

Concen: 19.87 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.01 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

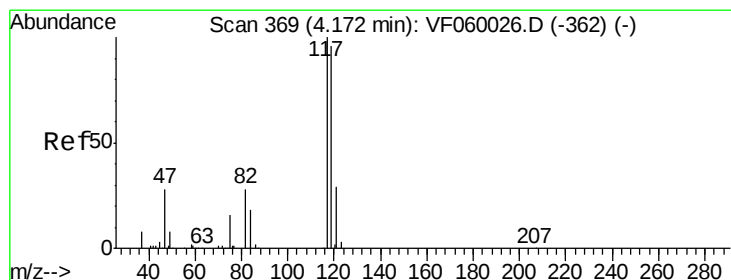
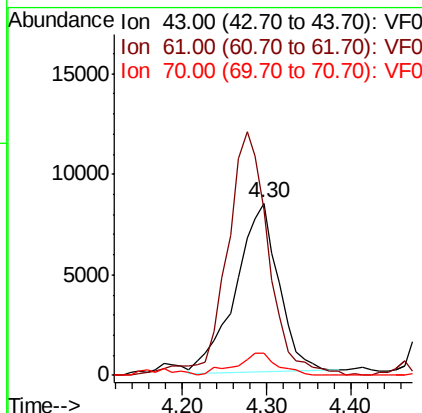
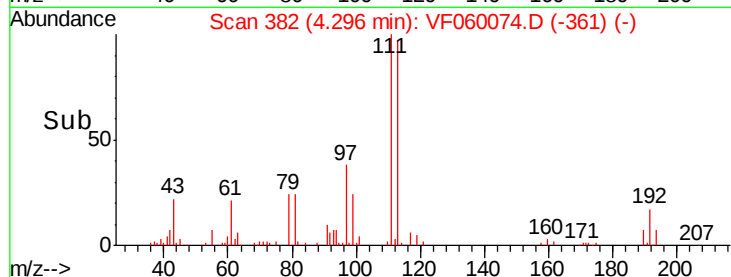
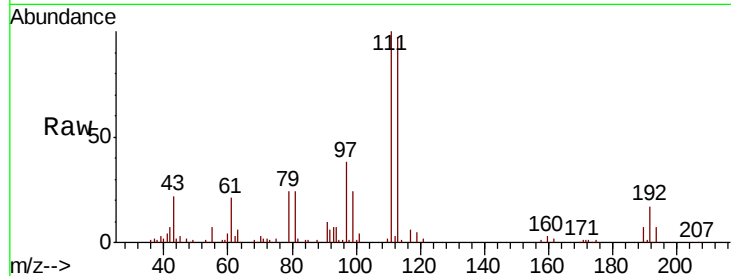
ClientSampleId :

VF0823SBS02

Tot Ion:	43	Resp:	30087
Ion Ratio	Lower	Upper	
43	100		
61	96.0	101.5	152.3#
70	12.7	6.4	9.6#

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 21.35 ug/l

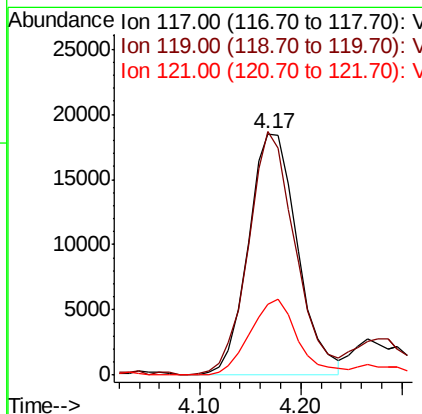
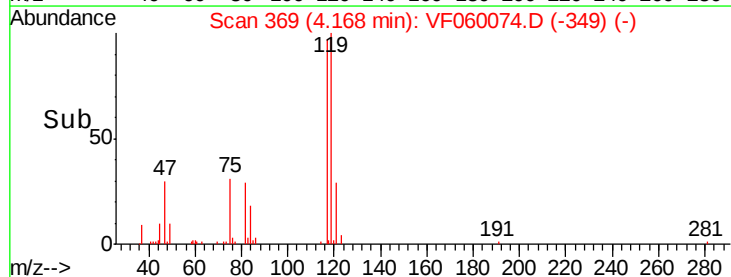
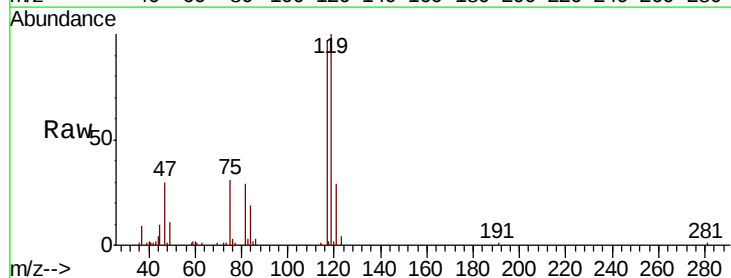
RT: 4.17 min Scan# 369

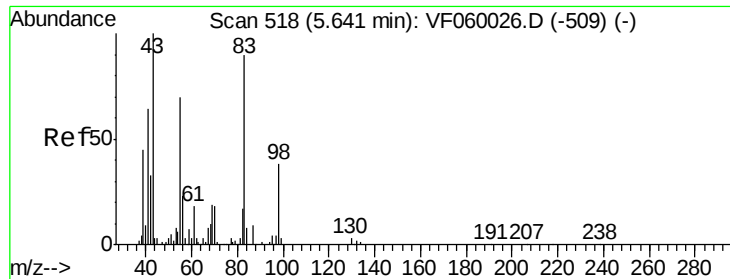
Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tgt Ion:	117	Resp:	62604
Ion Ratio	Lower	Upper	
117	100		
119	100.8	76.5	114.7
121	29.4	23.0	34.6





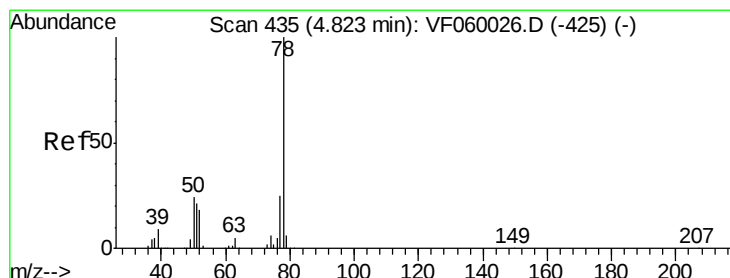
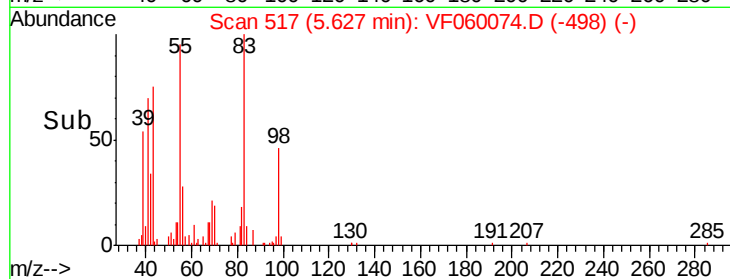
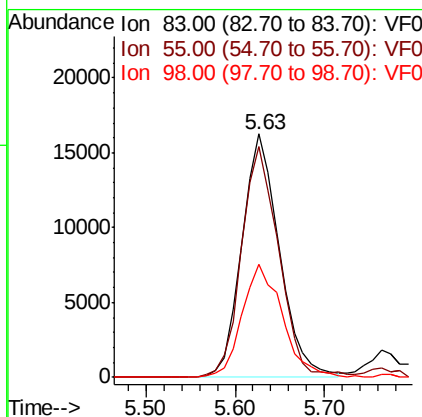
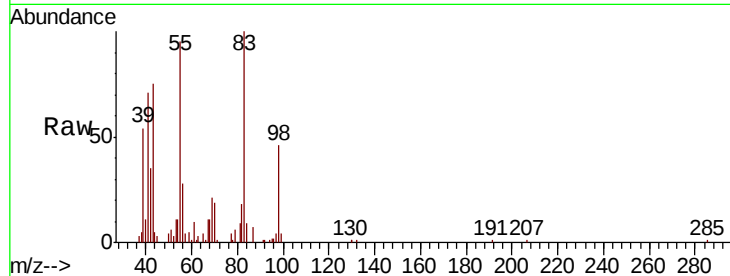
#39
Methvlcvclohexane
Concen: 20.03 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	94.6	62.7	94.1#
98	46.4	33.8	50.8

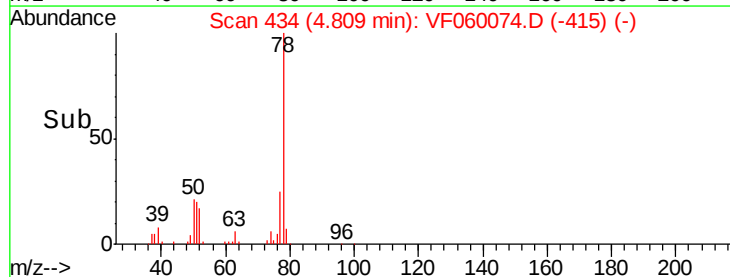
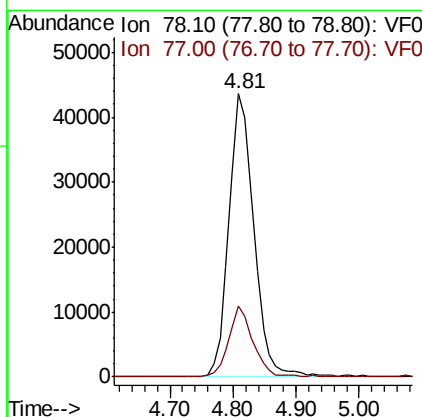
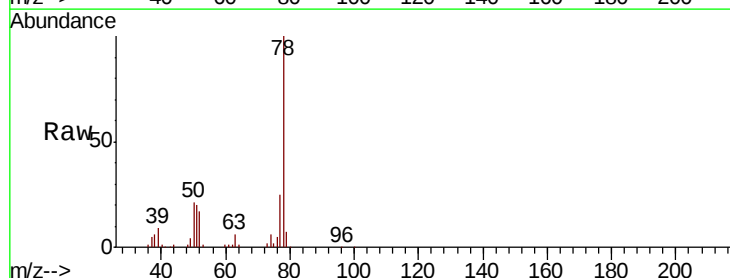
Manual Integrations
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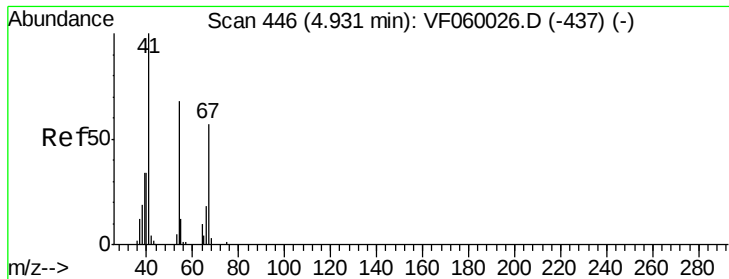
MMDadoda
8/24/2018 4:13:22 PM



#40
Benzene
Concen: 21.61 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	19.8	29.6





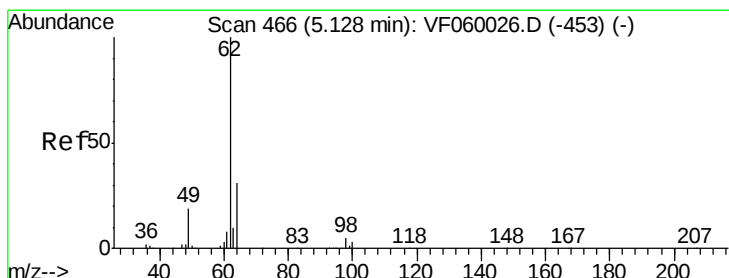
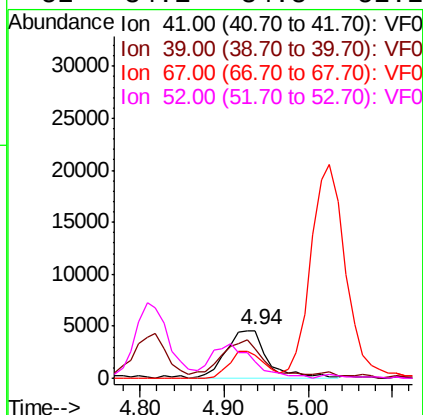
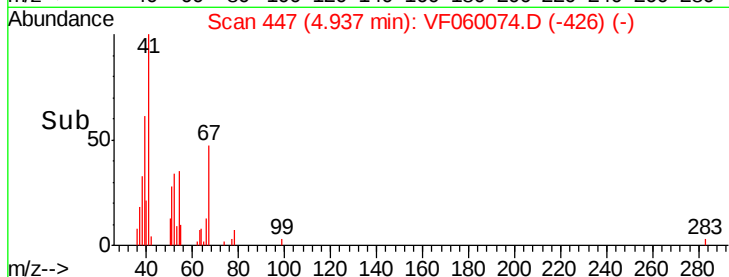
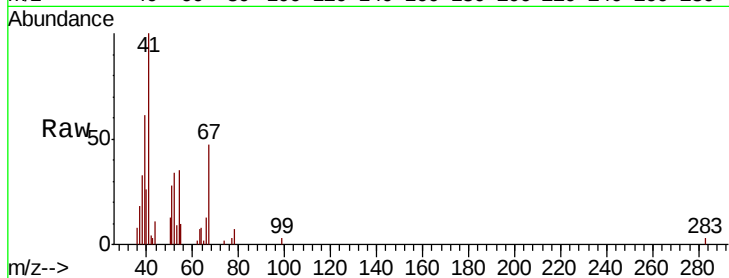
#41
Methacrylonitrile
Concen: 20.58 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.3	52.9	79.3
67	47.4	45.3	67.9
52	34.1	34.8	52.2#

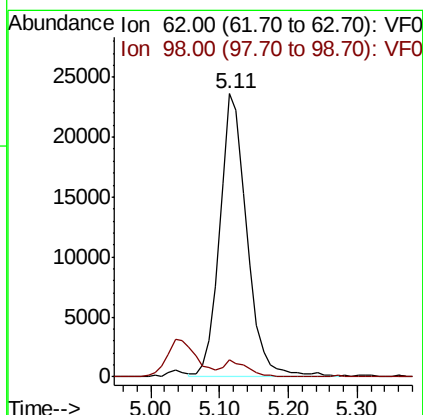
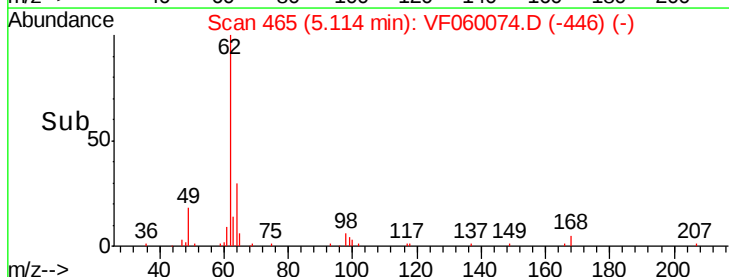
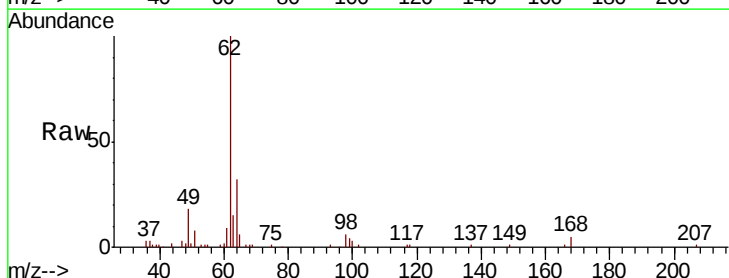
Manual Integrations
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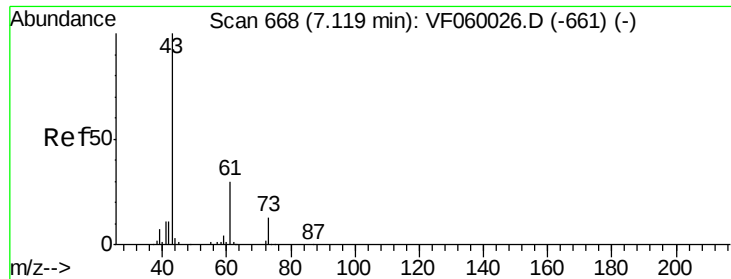
MMDadoda
8/24/2018 4:13:22 PM



#42
1,2-Dichloroethane
Concen: 21.77 ug/l
RT: 5.11 min Scan# 465
Delta R.T. -0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.9	0.0	11.2





#43

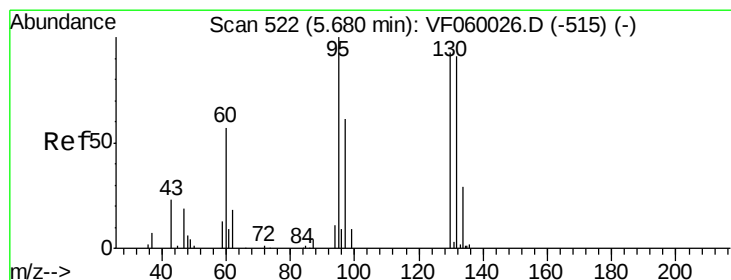
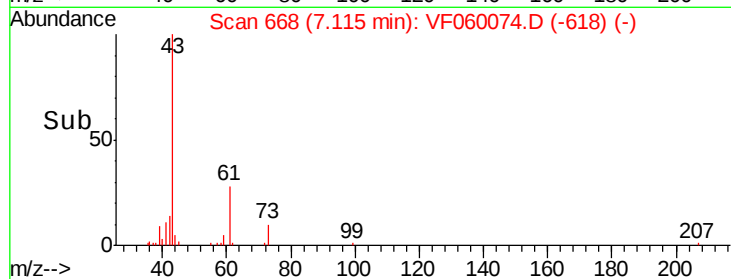
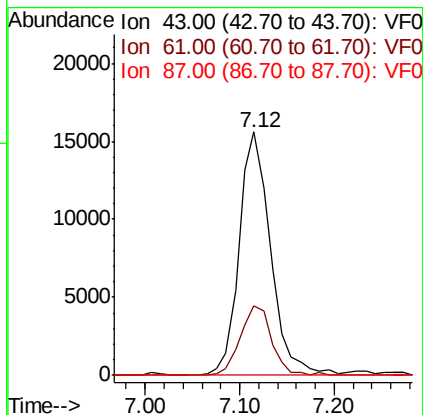
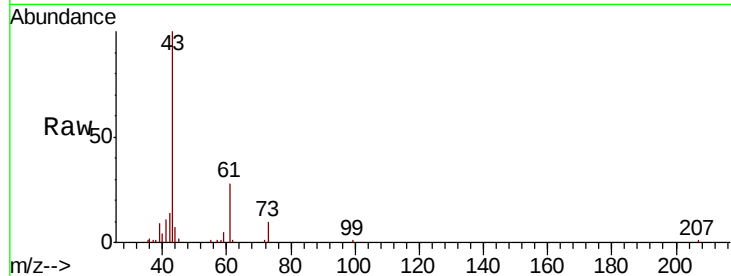
Isopropyl Acetate
 Concen: 18.87 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.4	23.8	35.6
87	0.0	0.2	0.4

Manual Integrations
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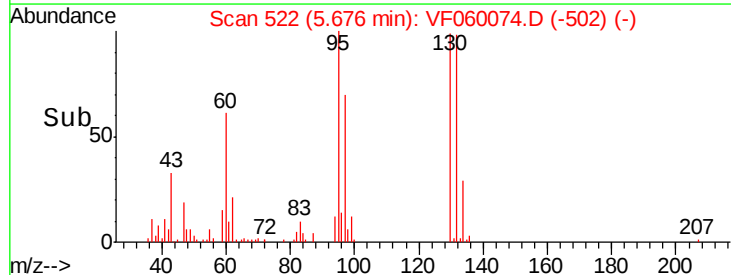
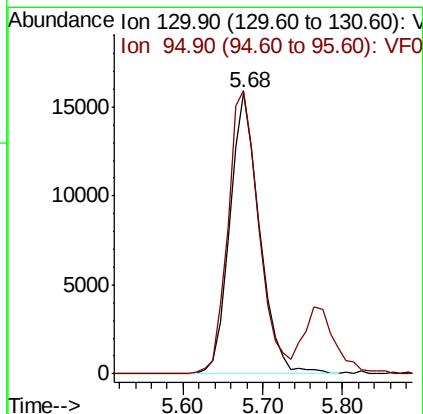
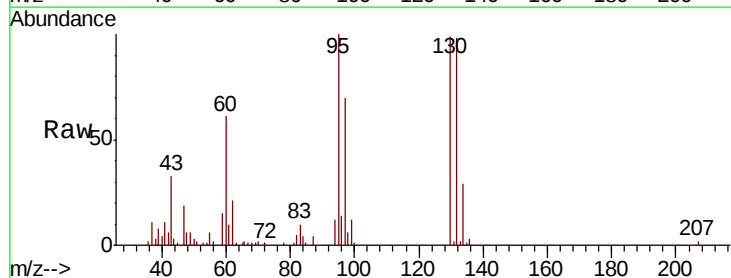
MMDadoda
 8/24/2018 4:13:22 PM



#44

Trichloroethene
 Concen: 22.49 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	215.8





#45

1,2-Dichloropropane

Concen: 21.33 ug/l

RT: 6.41 min Scan# 596

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion: 63 Resp: 33370

Ion Ratio Lower Upper

63 100

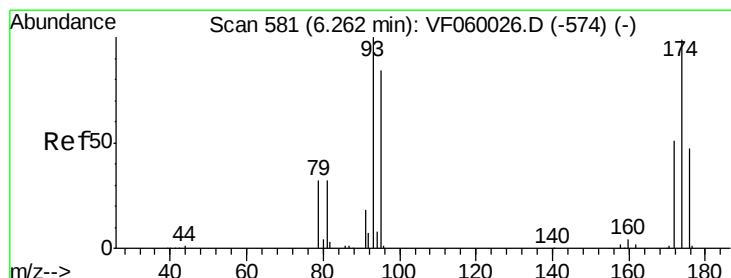
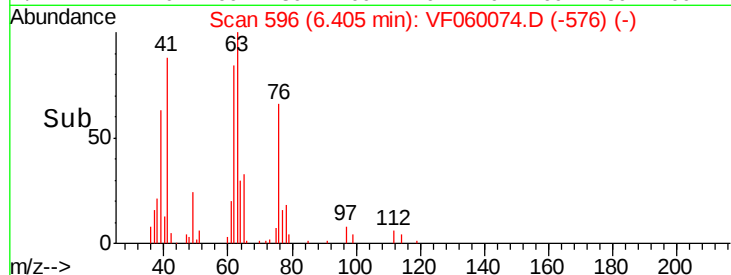
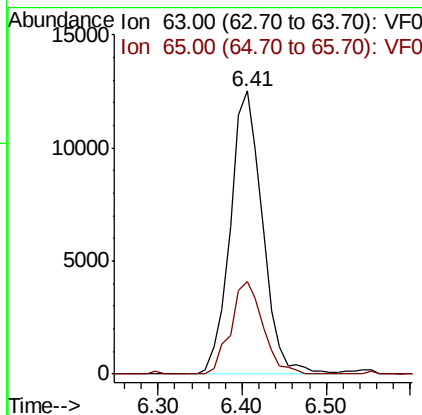
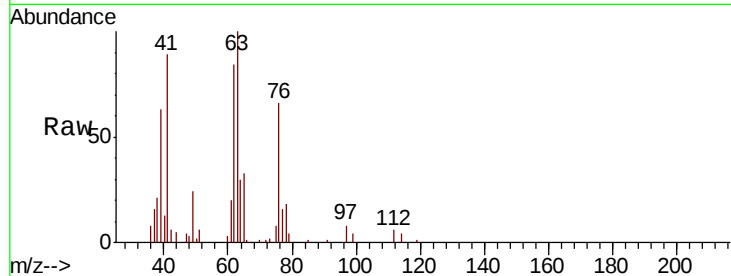
65 32.8 23.8 35.6

Manual Integrations

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8/24/2018 4:13:22 PM



#46

Dibromomethane

Concen: 24.76 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.01 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

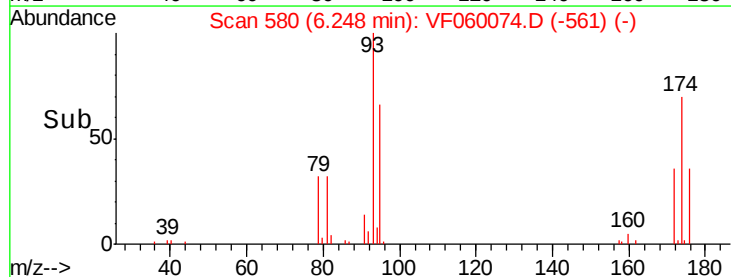
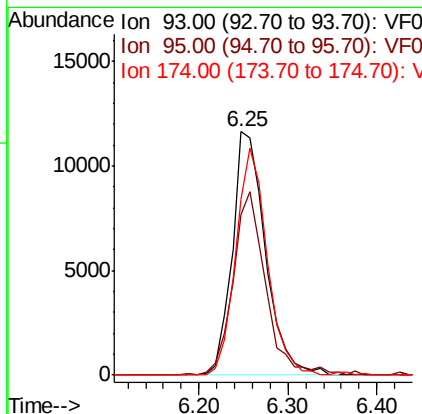
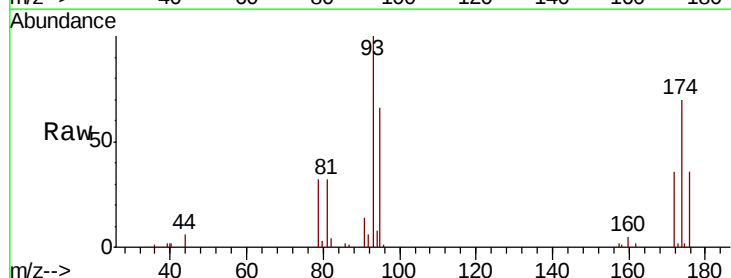
Tgt Ion: 93 Resp: 30315

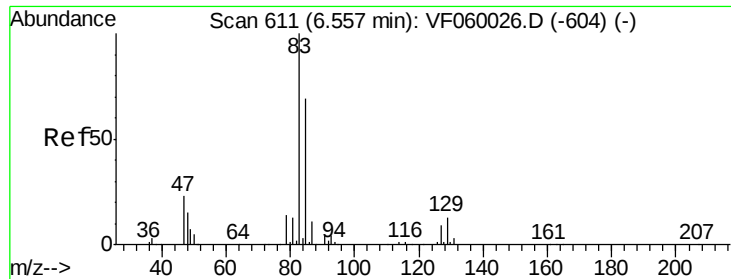
Ion Ratio Lower Upper

93 100

95 65.9 67.1 100.7#

174 72.0 79.0 118.4#





#47

Bromodichloromethane

Concen: 22.64 ug/l

RT: 6.55 min Scan# 611

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

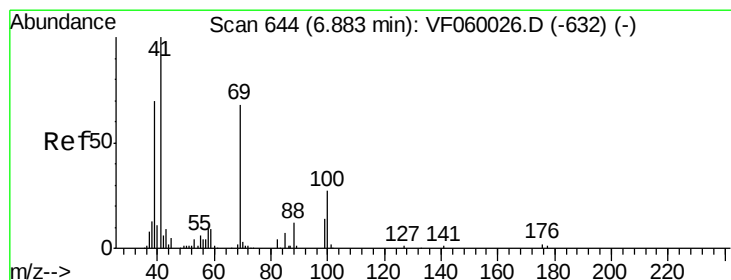
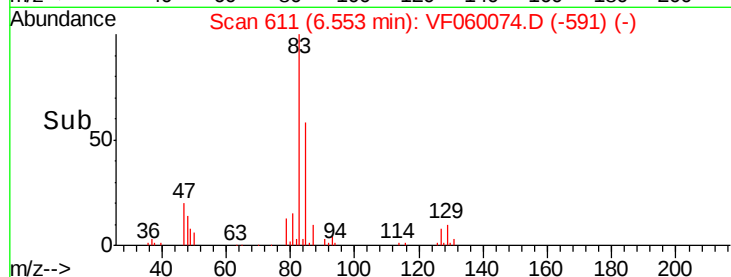
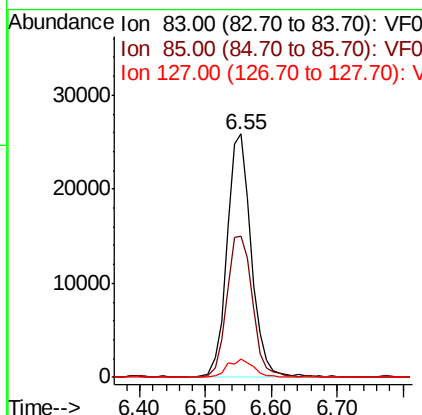
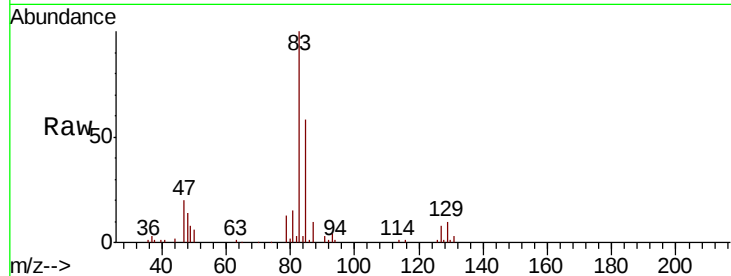
ClientSampleId :

VF0823SBS02

Tot Ion:	83	Resp:	66943
Ion	Ratio	Lower	Upper
83	100		
85	58.2	55.2	82.8
127	7.6	7.3	10.9

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.54 ug/l

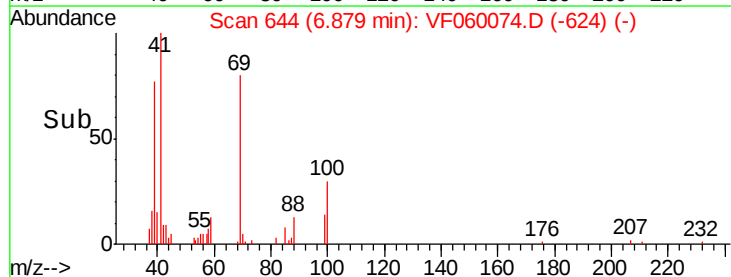
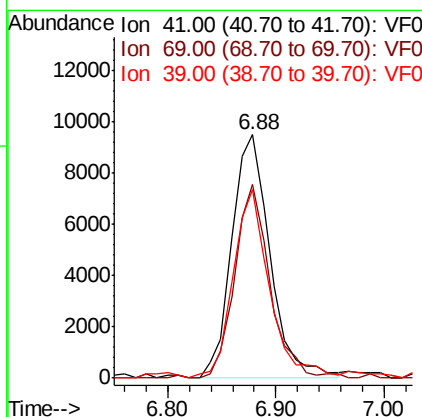
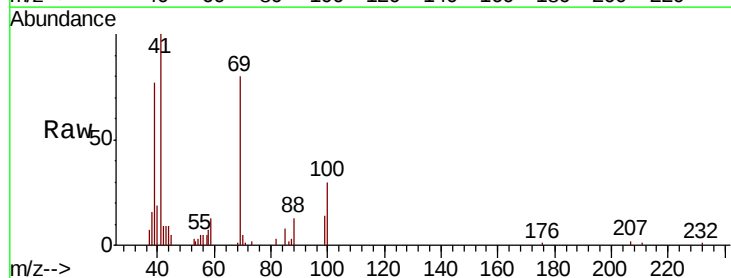
RT: 6.88 min Scan# 644

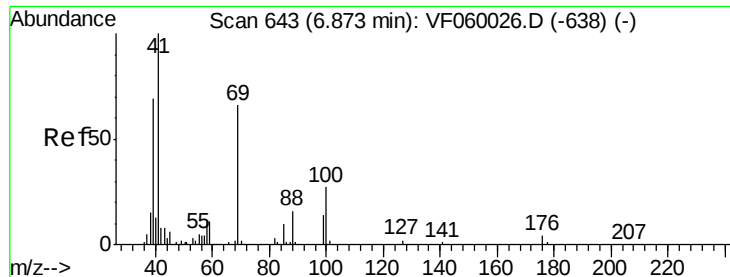
Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tgt Ion:	41	Resp:	23377
Ion	Ratio	Lower	Upper
41	100		
69	79.5	54.6	81.8
39	77.4	56.5	84.7





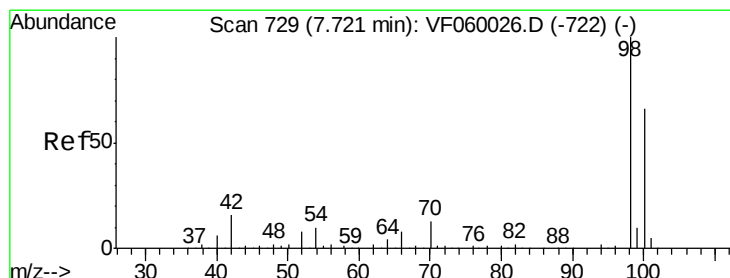
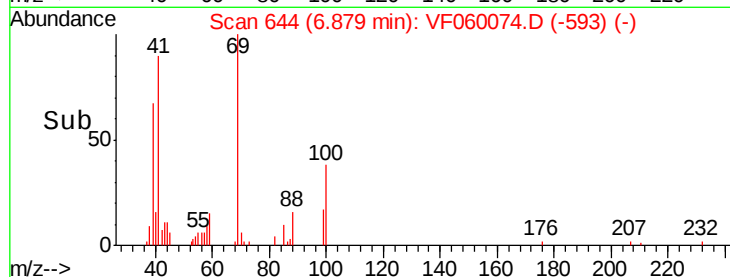
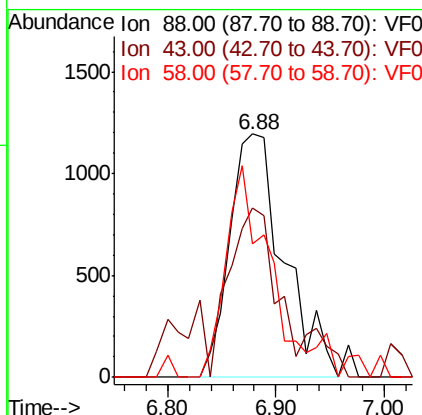
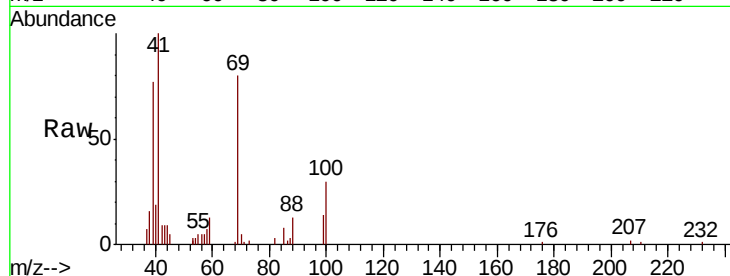
#49
1,4-Dioxane
Concen: 342.45 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	69.5	46.5	69.7
58	54.6	54.8	82.2#

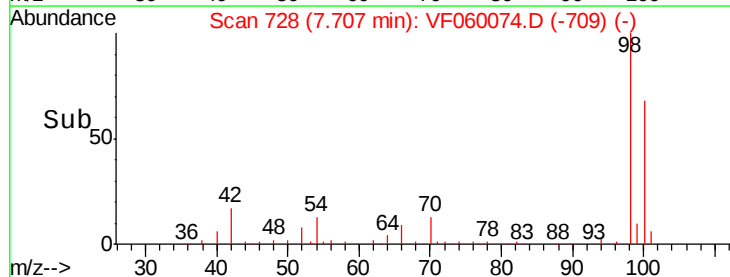
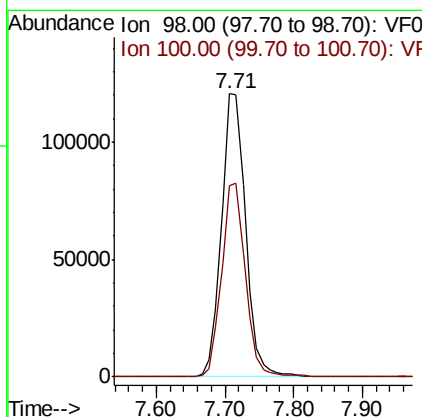
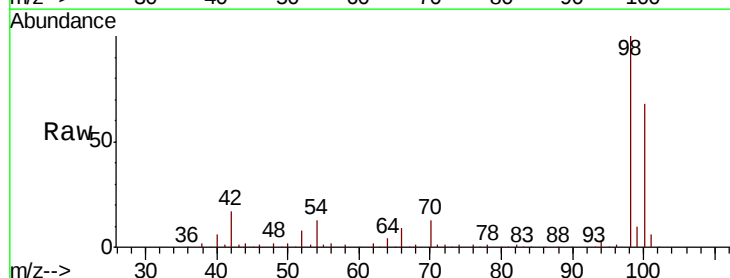
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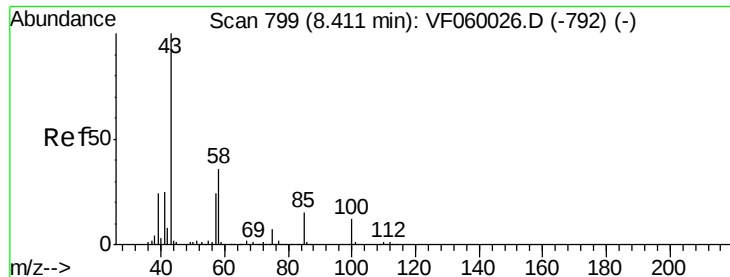
MMDadoda
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#50
Toluene-d8
Concen: 49.16 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.5	53.2	79.8





#51

4-Methyl-2-Pentanone

Concen: 117.28 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion: 43 Resp: 193023

Ion Ratio Lower Upper

43 100

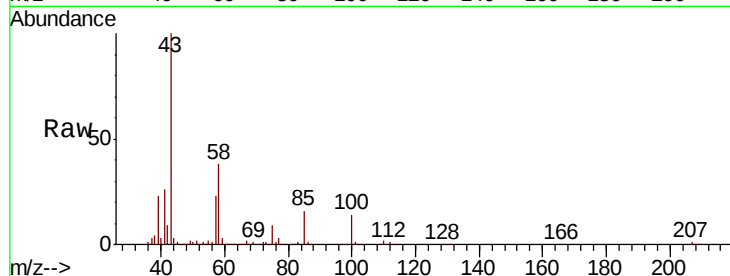
58 38.2 28.6 42.8

Manual Integrations

APPROVED

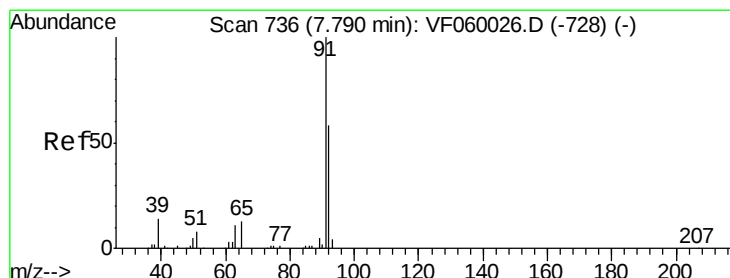
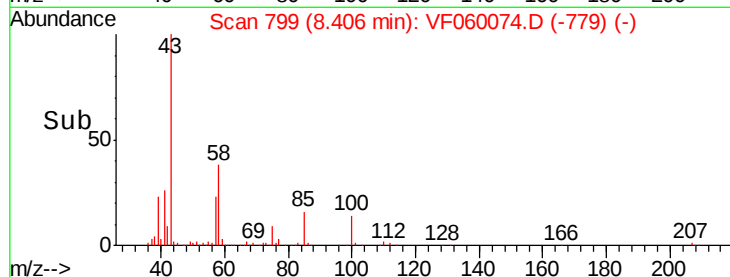
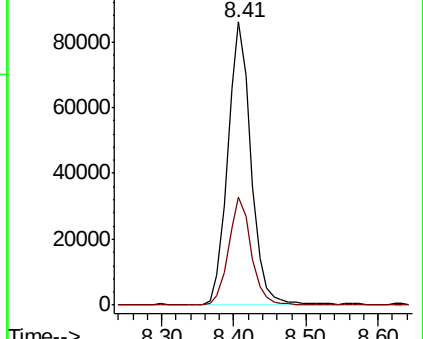
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.19 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF060074.D

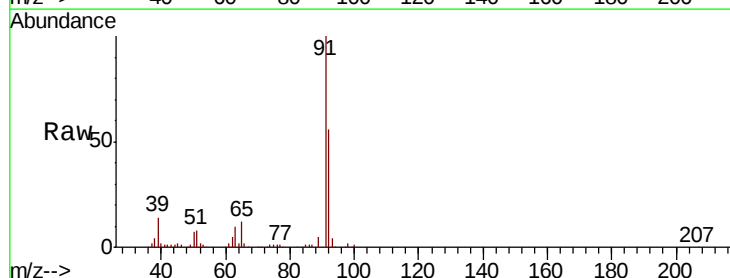
Acq: 24 Aug 2018 2:48

Tgt Ion: 92 Resp: 85457

Ion Ratio Lower Upper

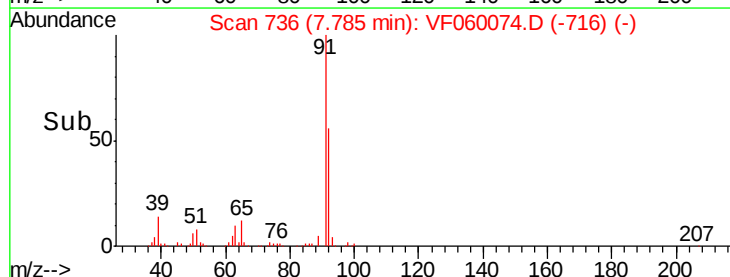
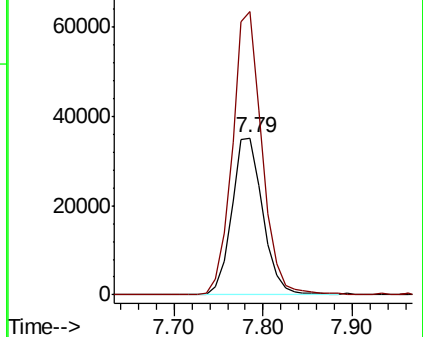
92 100

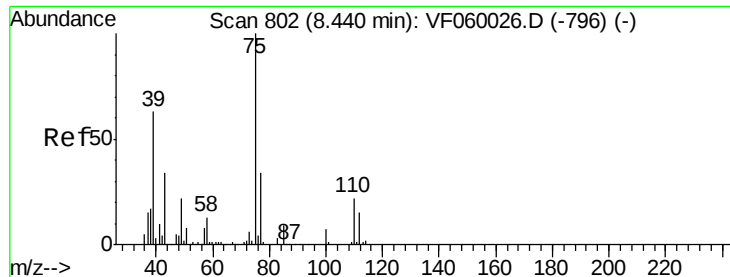
91 180.2 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 20.51 ug/l

RT: 8.43 min Scan# 801

Delta R.T. -0.01 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion: 75 Resp: 54989

Ion Ratio Lower Upper

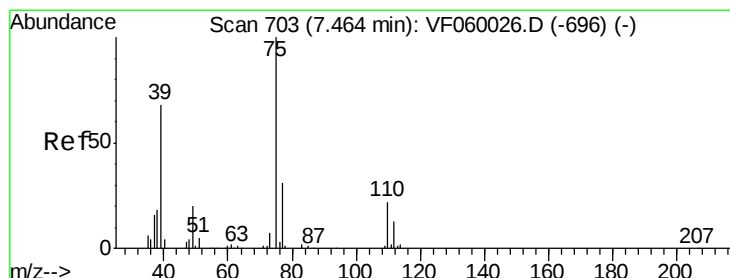
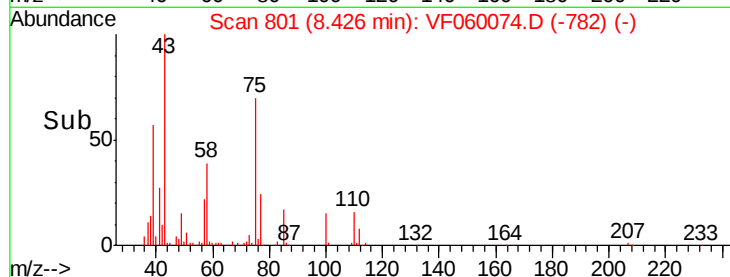
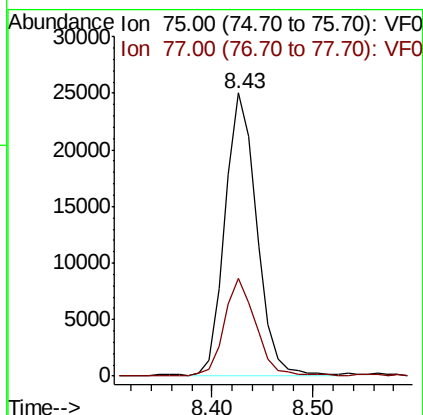
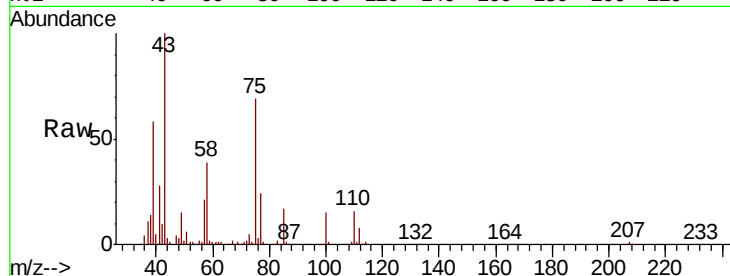
75 100

77 34.6 27.4 41.2

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#54

cis-1,3-Dichloropropene

Concen: 20.16 ug/l

RT: 7.46 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

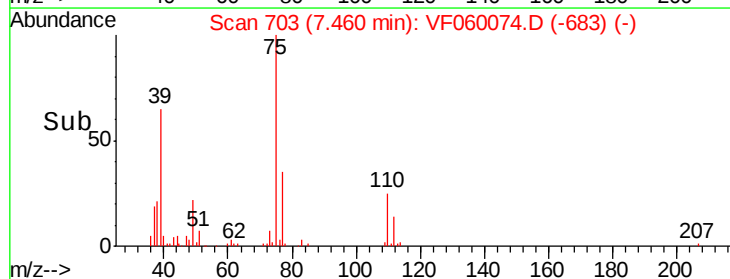
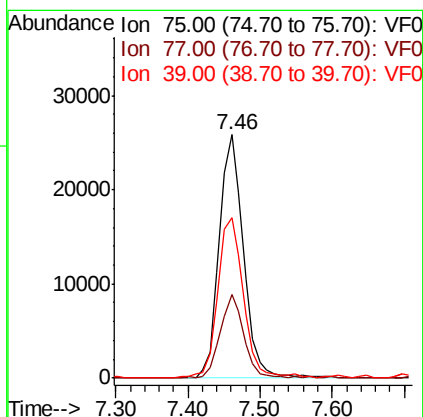
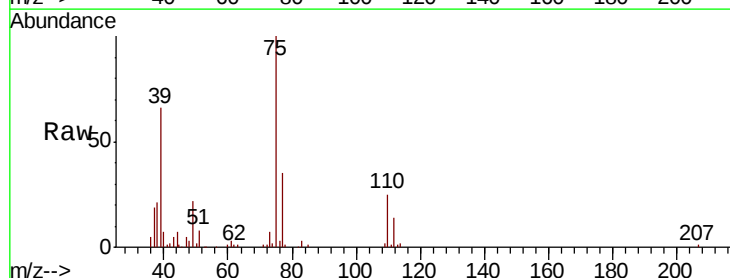
Tgt Ion: 75 Resp: 60341

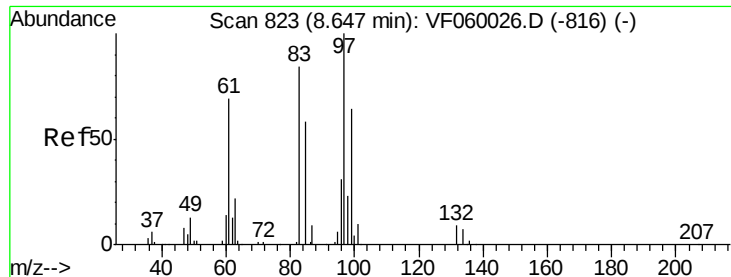
Ion Ratio Lower Upper

75 100

77 34.5 24.6 37.0

39 66.0 54.6 81.8





#55

1,1,2-Trichloroethane

Concen: 23.49 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

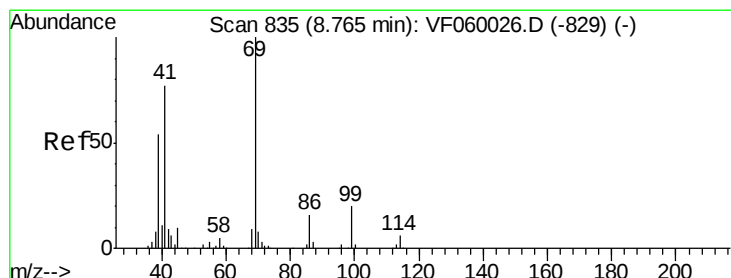
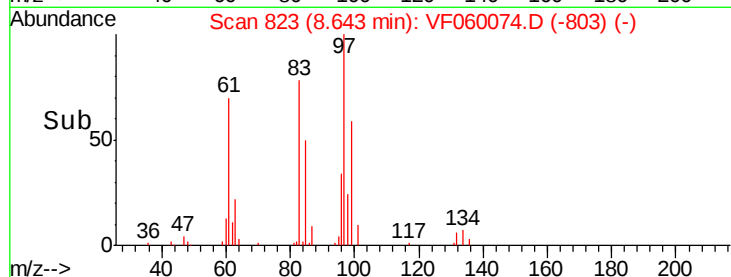
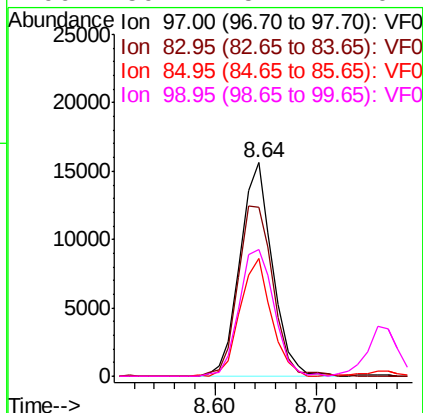
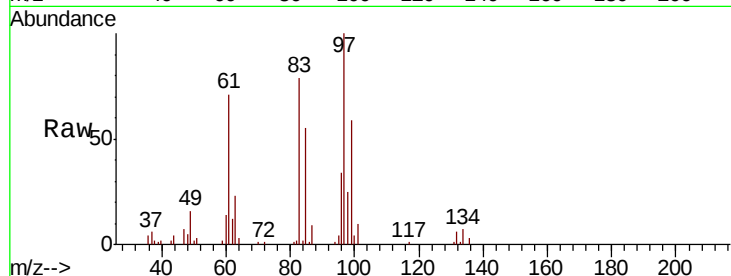
ClientSampleId :

VF0823SBS02

Tot Ion:	97	Resp:	35051
Ion	Ratio	Lower	Upper
97	100		
83	79.3	67.4	101.2
85	55.3	46.2	69.2
99	59.1	51.1	76.7

Manual Integrations
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#56

Ethyl methacrylate

Concen: 21.62 ug/l

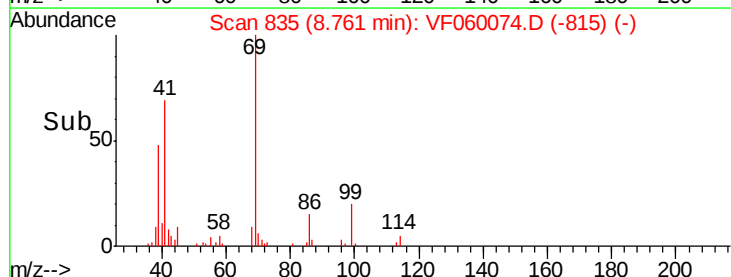
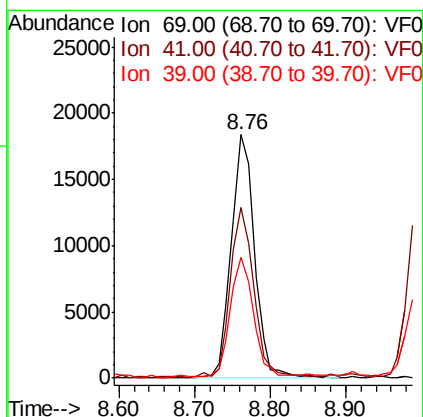
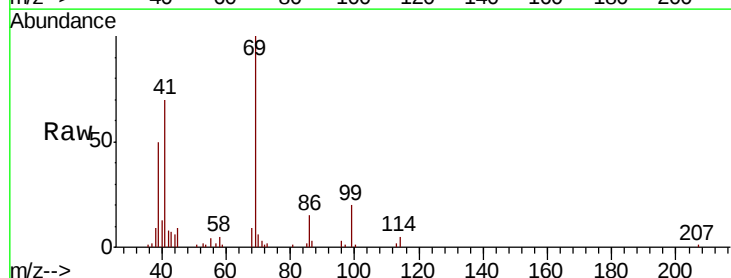
RT: 8.76 min Scan# 835

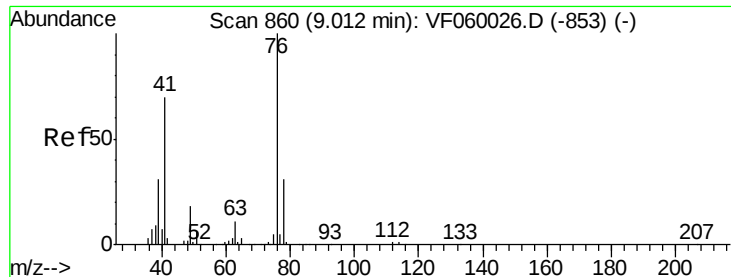
Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tgt Ion:	69	Resp:	39054
Ion	Ratio	Lower	Upper
69	100		
41	70.0	61.6	92.4
39	49.8	43.9	65.9





#57

1,3-Dichloropropane

Concen: 22.32 ug/l

RT: 9.01 min Scan# 860

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion: 76 Resp: 58541

Ion Ratio Lower Upper

76 100

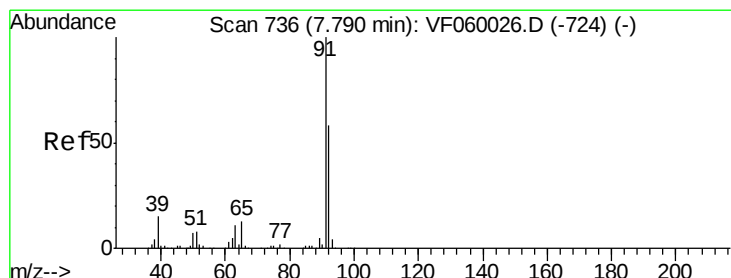
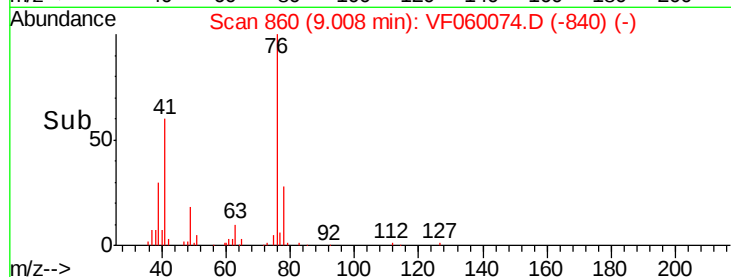
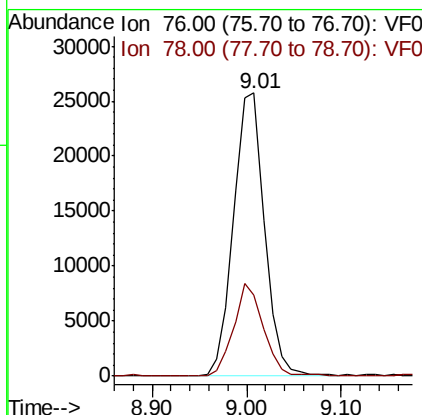
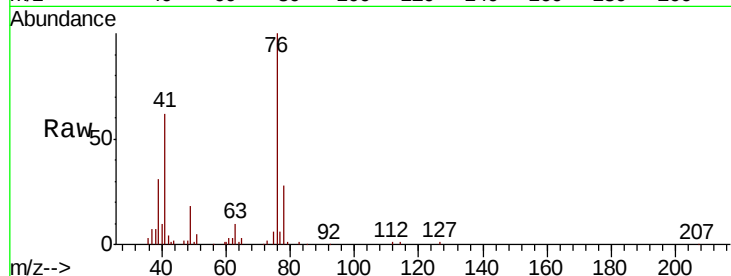
78 28.5 25.2 37.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 108.89 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF060074.D

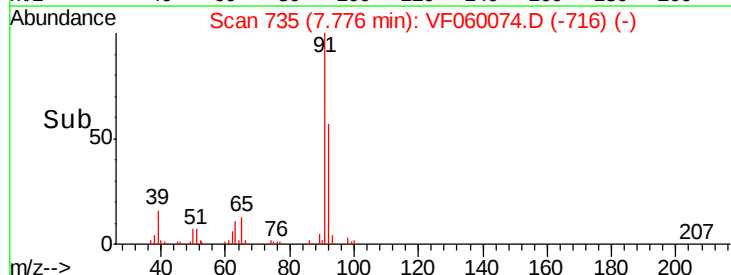
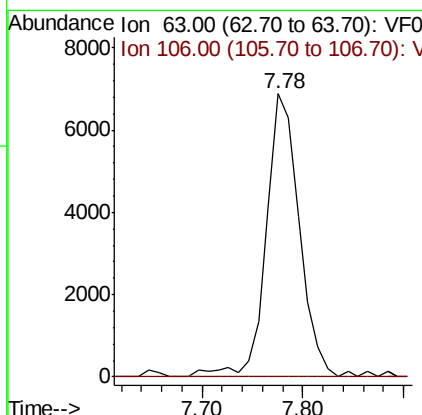
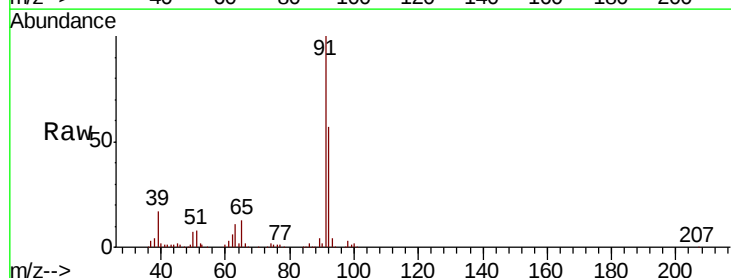
Acq: 24 Aug 2018 2:48

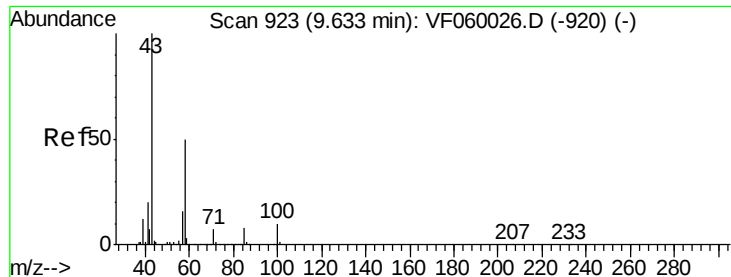
Tgt Ion: 63 Resp: 15614

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





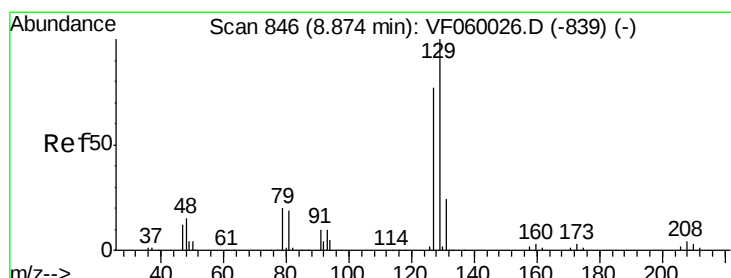
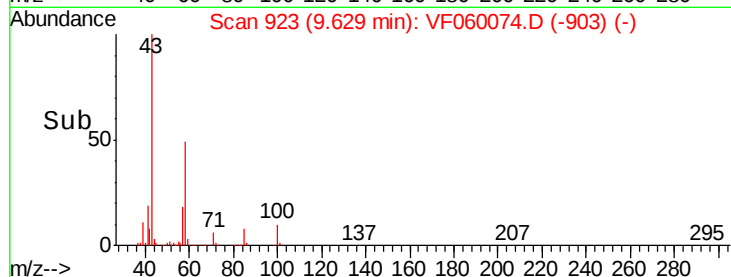
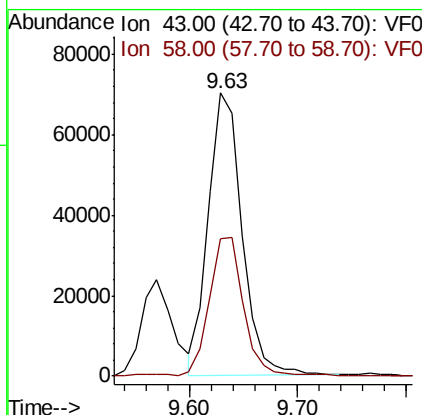
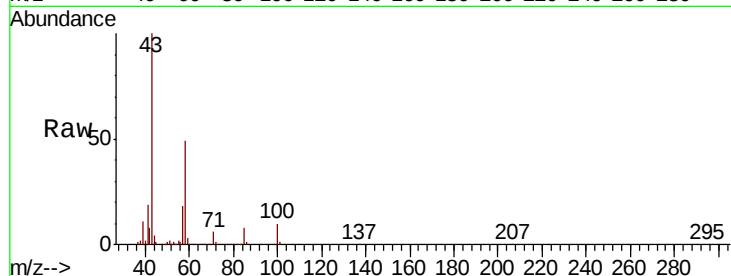
#59
2-Hexanone
Concen: 113.79 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.7	23.4	70.2

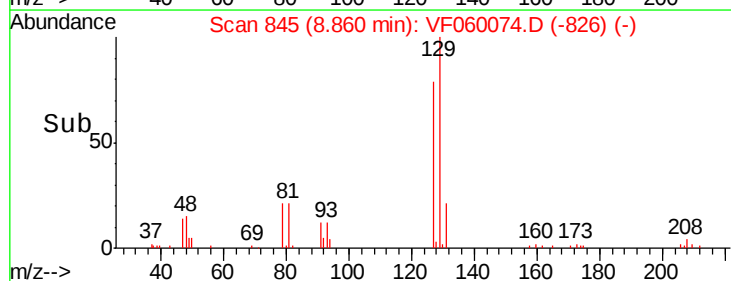
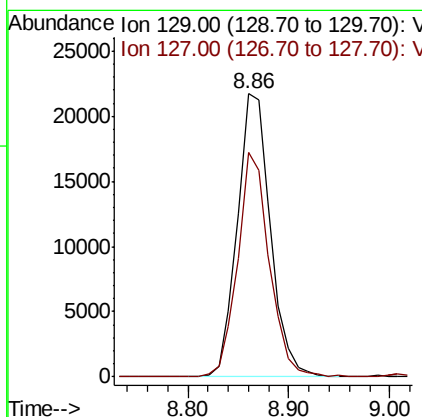
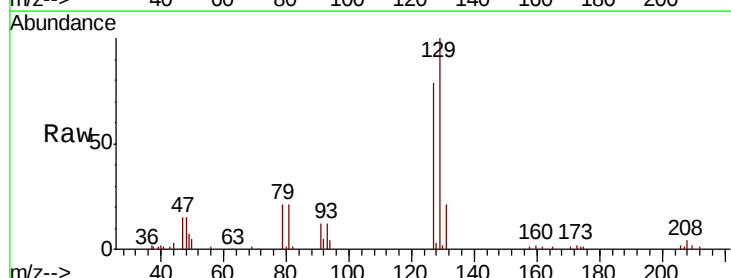
Manual Integrations
APPROVED

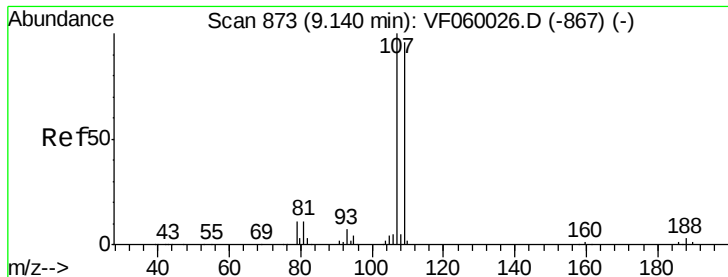
MMDadoda
8/24/2018 4:13:22 PM



#60
Dibromochloromethane
Concen: 22.57 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.5	38.6	115.8





#61

1,2-Dibromoethane

Concen: 22.49 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion:107 Resp: 39427

Ion Ratio Lower Upper

107 100

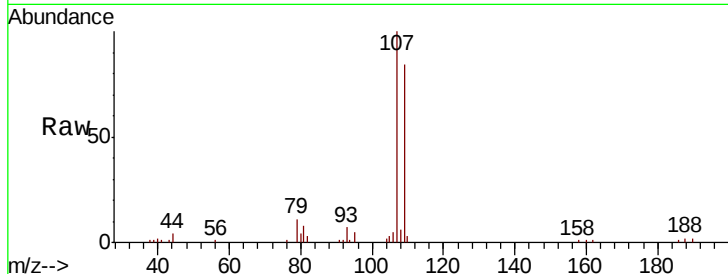
109 83.8 76.5 114.7

Manual Integrations

APPROVED

MMDadoda

8/24/2018 4:13:22 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.14

20000

15000

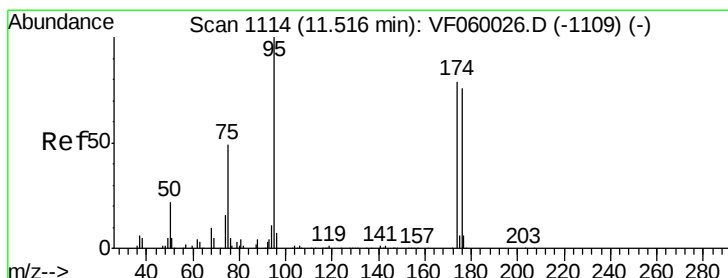
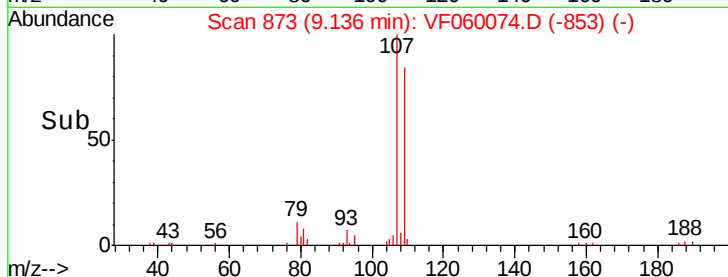
10000

5000

0

Time-->

9.00 9.10 9.20 9.30



#62

4-Bromofluorobenzene

Concen: 52.45 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

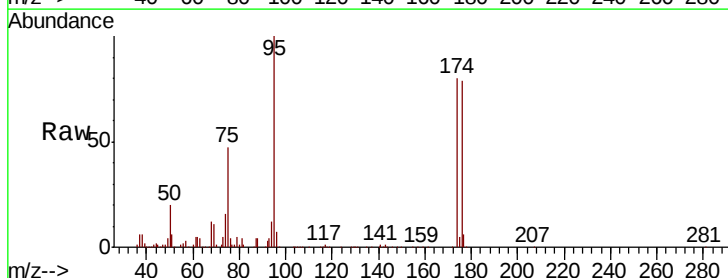
Tgt Ion: 95 Resp: 166720

Ion Ratio Lower Upper

95 100

174 79.7 0.0 158.4

176 79.1 0.0 153.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.51

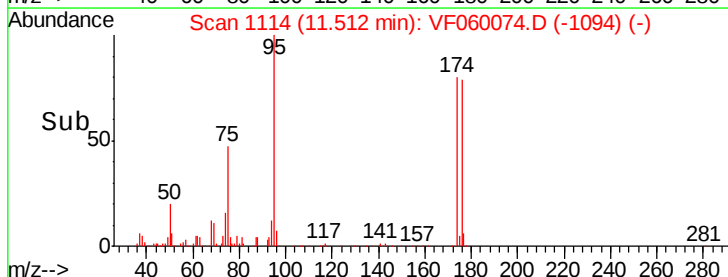
100000

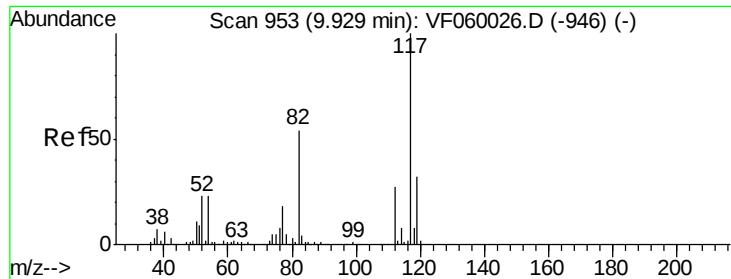
50000

0

Time-->

11.40 11.50 11.60 11.70





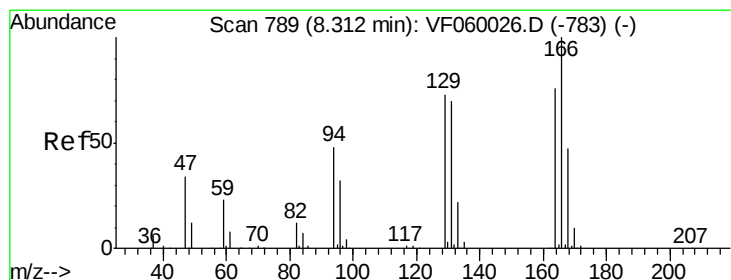
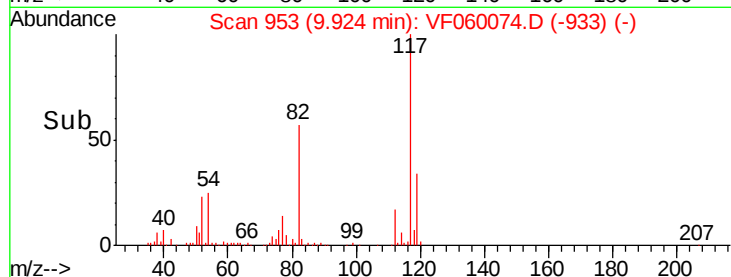
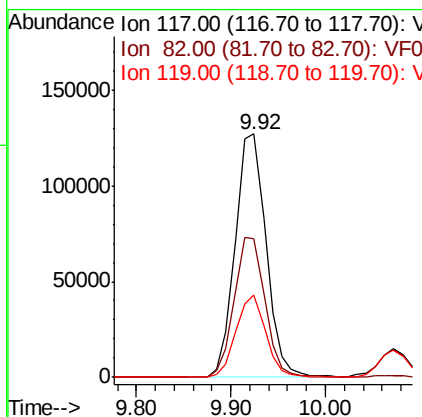
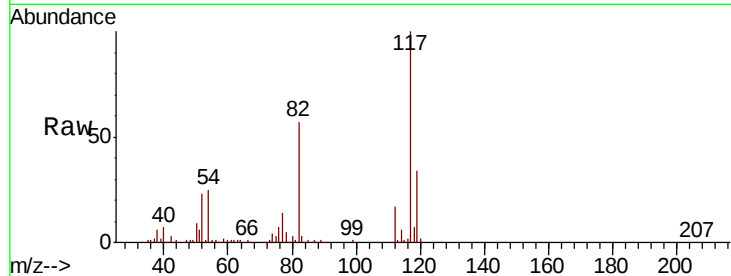
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	289683		
82	56.8		43.6	65.4
119	33.7		25.6	38.4

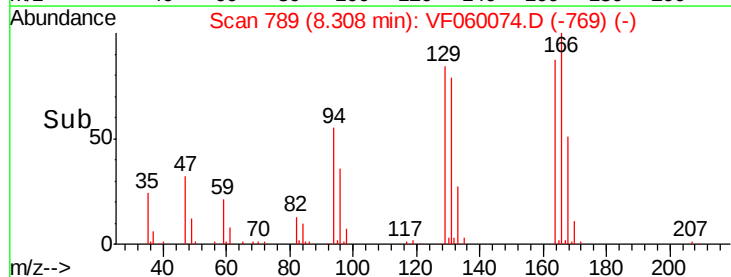
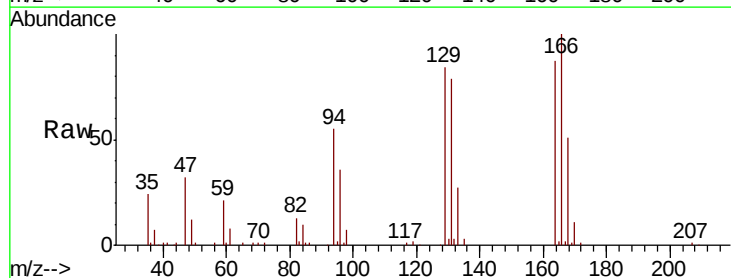
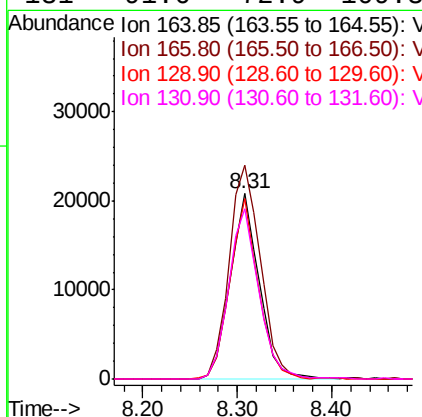
Manual Integrations
APPROVED

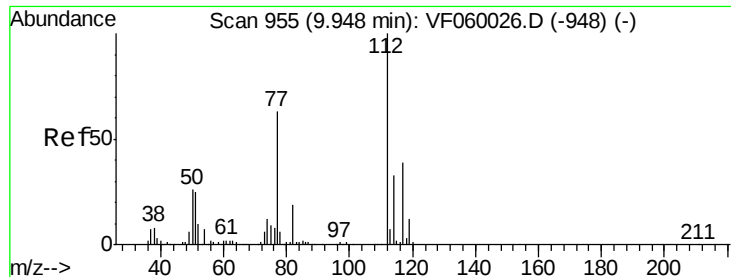
MMDadoda
8/24/2018 4:13:22 PM



#64
Tetrachloroethene
Concen: 22.66 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	44224		
166	115.3		104.7	157.1
129	97.3		77.0	115.4
131	91.6		72.9	109.3





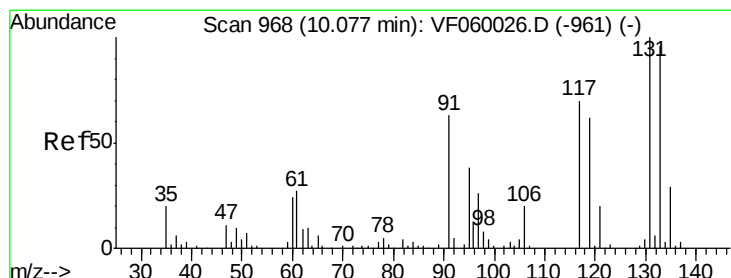
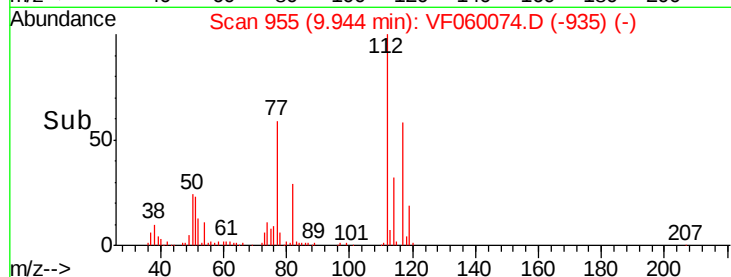
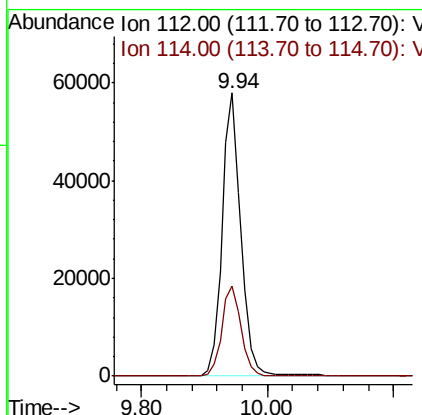
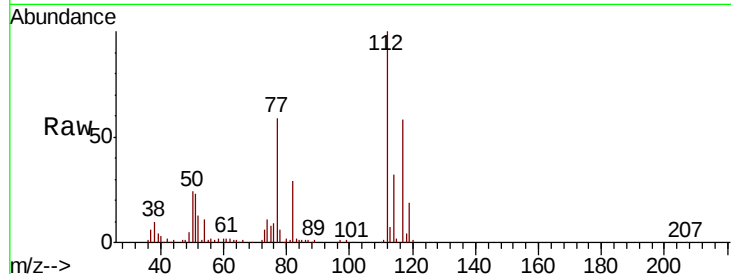
#65
Chlorobenzene
Concen: 21.85 ug/l
RT: 9.94 min Scan# 955
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	26.2	39.2

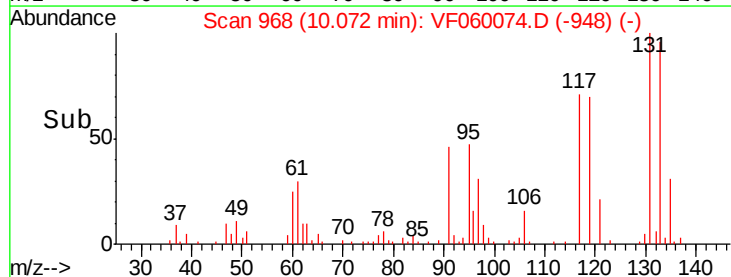
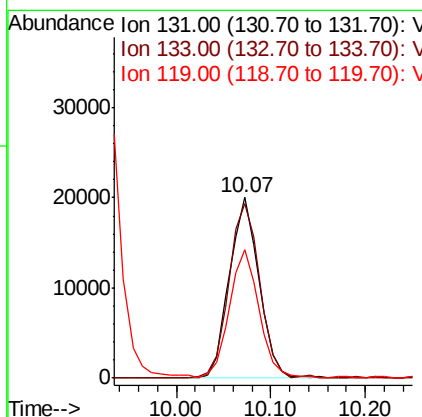
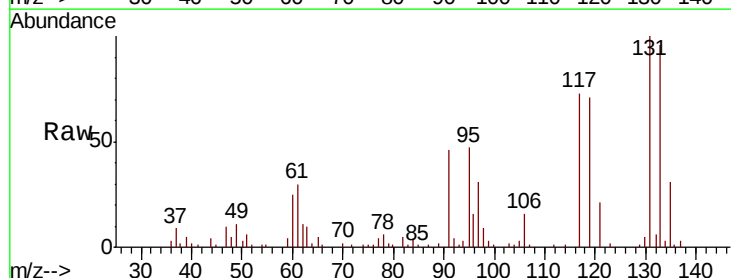
Manual Integrations
APPROVED

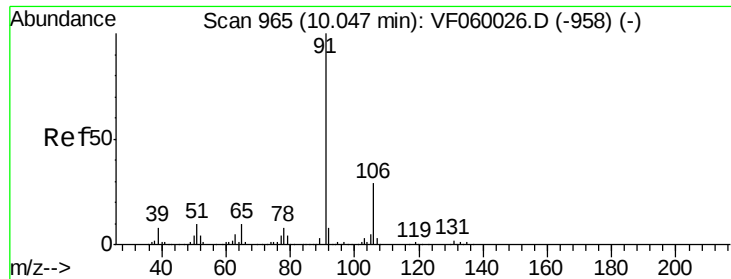
MMDadoda
8/24/2018 4:13:22 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.00 ug/l
RT: 10.07 min Scan# 968
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.4	48.2	144.6
119	71.4	31.4	94.2





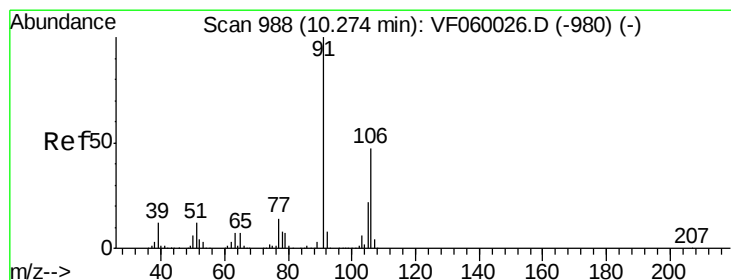
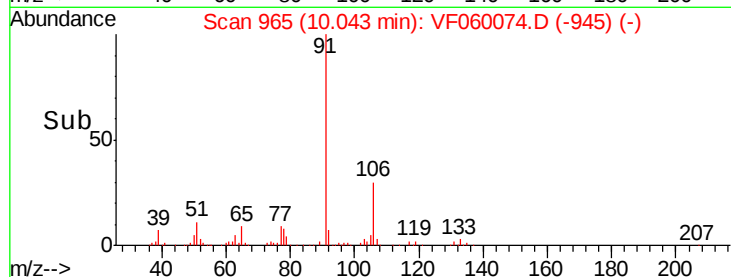
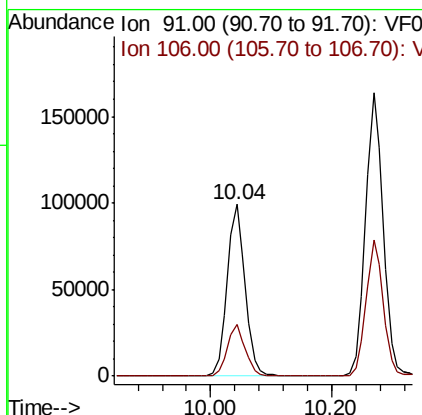
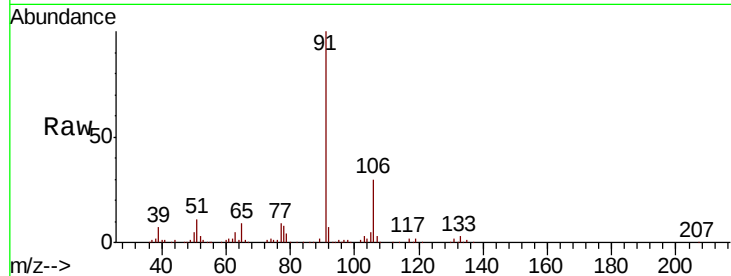
#67
Ethyl Benzene
Concen: 21.70 ug/l
RT: 10.04 min Scan# 965
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion: 91 Resp: 204783
Ion Ratio Lower Upper
91 100
106 30.1 23.6 35.4

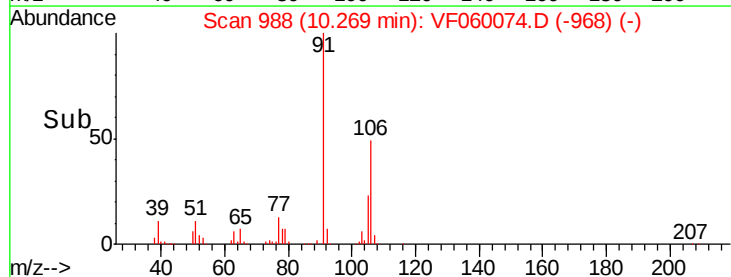
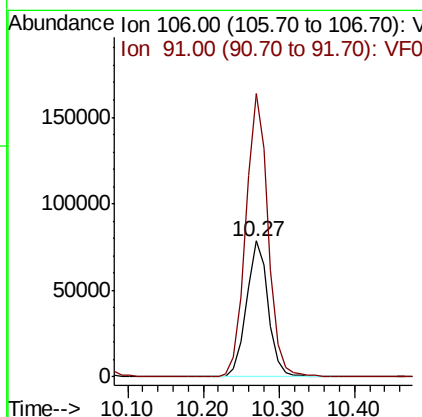
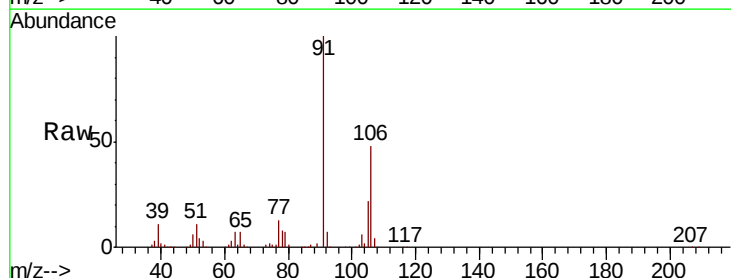
Manual Integrations
APPROVED

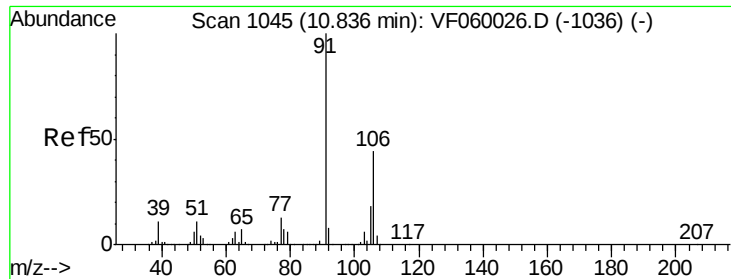
MMDadoda
8/24/2018 4:13:22 PM



#68
m/p-Xylenes
Concen: 45.75 ug/l
RT: 10.27 min Scan# 988
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion: 106 Resp: 157087
Ion Ratio Lower Upper
106 100
91 208.8 171.8 257.8





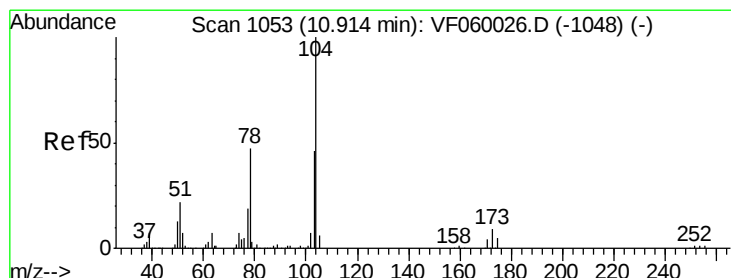
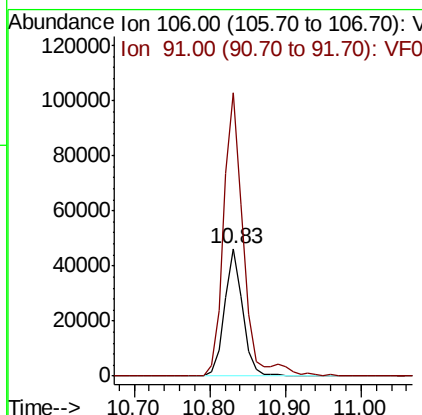
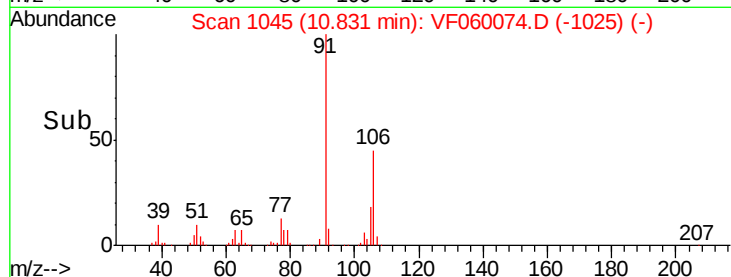
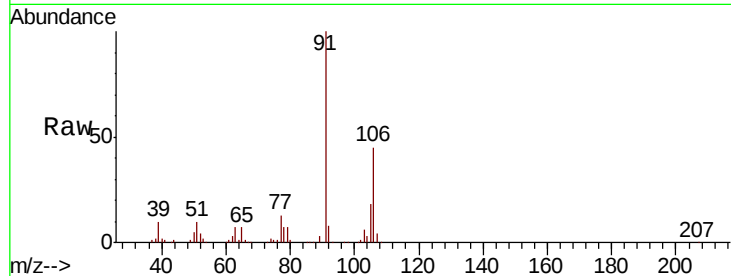
#69
o-Xylene
Concen: 20.90 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	222.2	112.5	337.5	

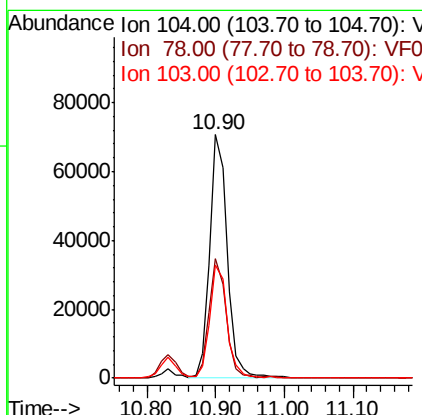
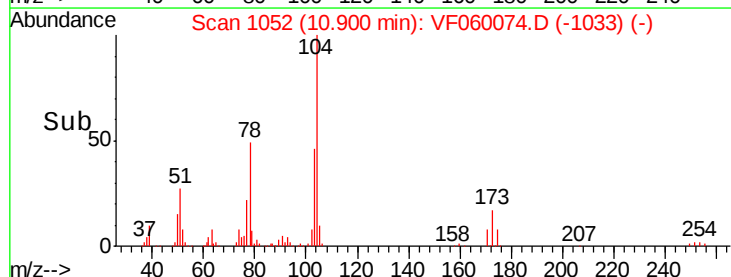
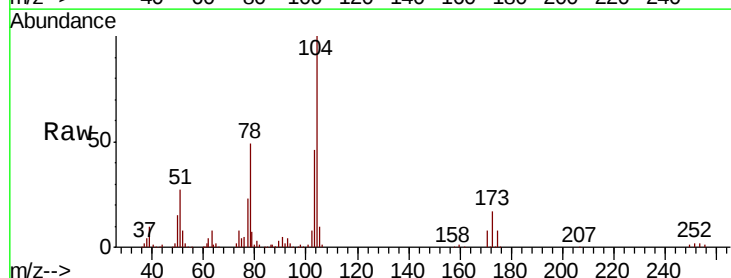
Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:13:22 PM



#70
Styrene
Concen: 22.21 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	49.0	38.0	57.0	
103	46.3	37.6	56.4	





#71

Bromoform

Concen: 20.30 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion:173 Resp: 29379

Ion Ratio Lower Upper

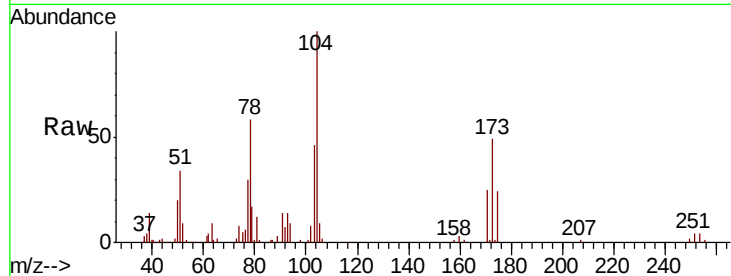
173 100

175 50.2 24.7 74.1

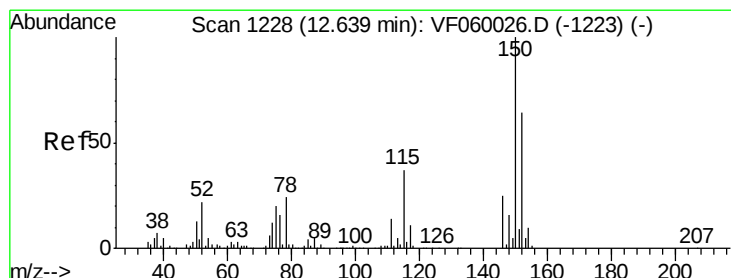
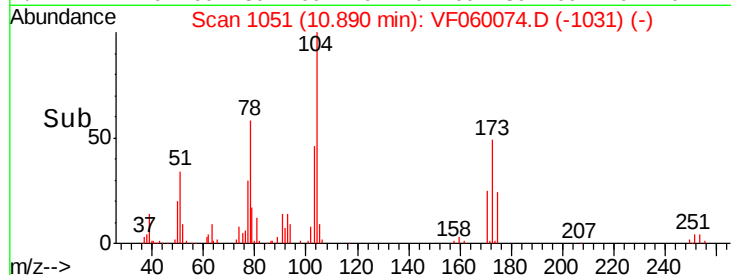
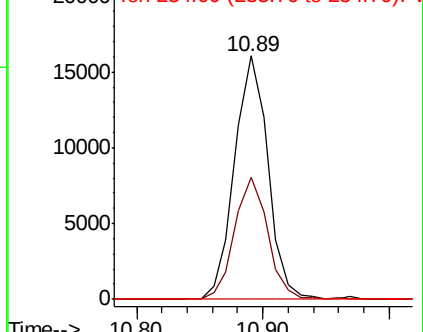
254 0.0 0.0 0.0

Manual Integrations
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MMDadoda
8/24/2018 4:13:22 PM



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: 50.00 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

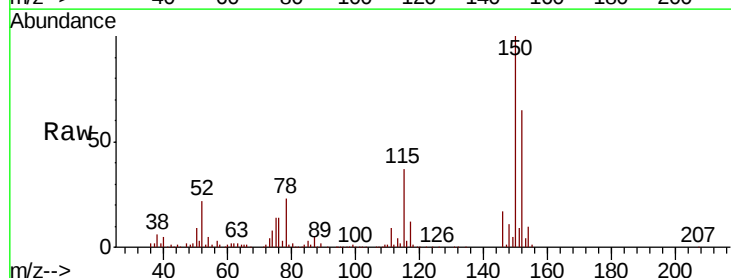
Tgt Ion:152 Resp: 182935

Ion Ratio Lower Upper

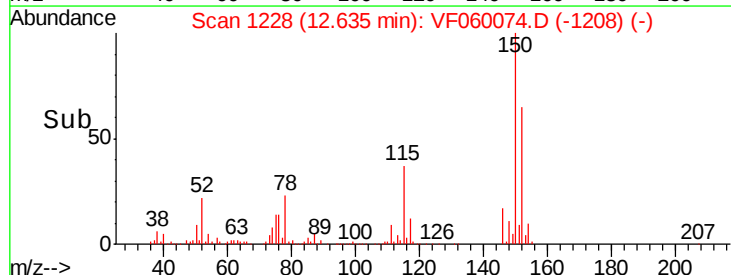
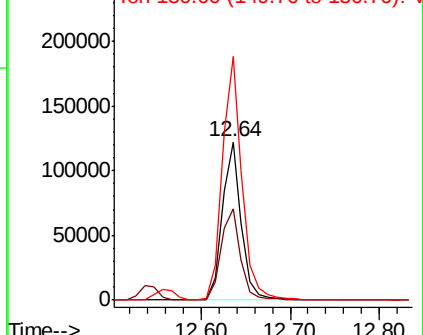
152 100

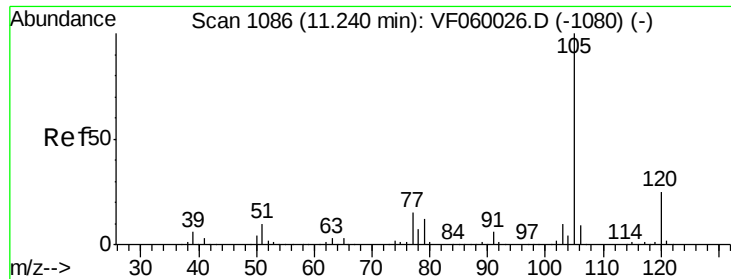
115 57.5 28.6 85.9

150 154.0 0.0 312.0



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: 21.08 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion: 105 Resp: 232078

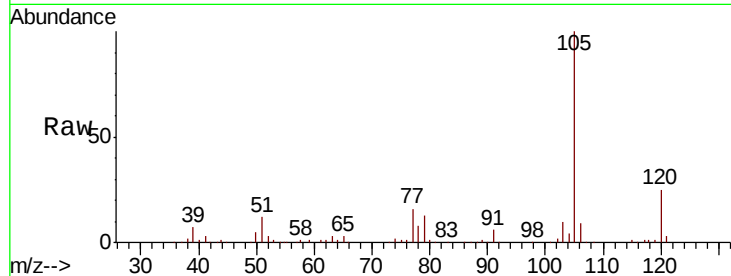
Ion Ratio Lower Upper

105 100

120 25.4 12.7 38.0

Manual Integrations
APPROVED

MMDadoda
8/24/2018 4:13:22 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

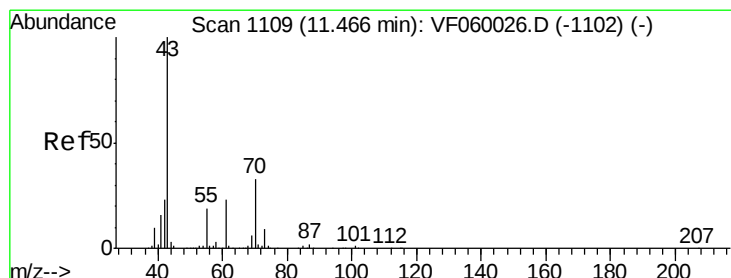
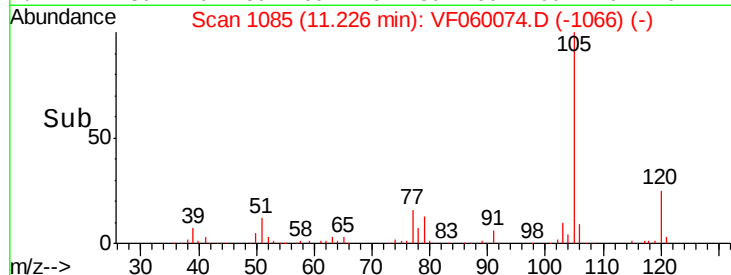
150000

100000

50000

0

Time--> 11.10 11.20 11.30 11.40



#74

N-ethyl acetate

Concen: 19.99 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tgt Ion: 43 Resp: 68408

Ion Ratio Lower Upper

43 100

70 34.5 26.4 39.6

55 24.3 15.0 22.4

61 27.6 18.4 27.6

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

60000

50000

40000

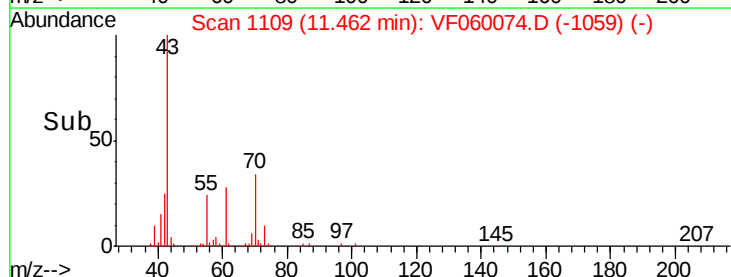
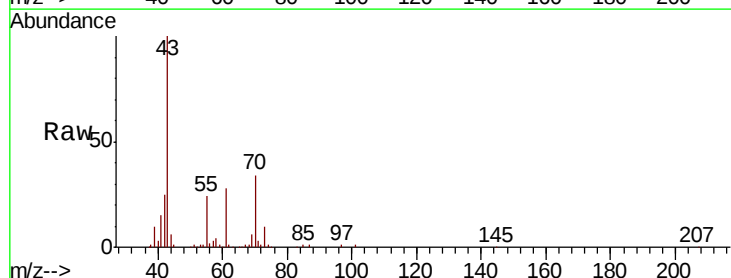
30000

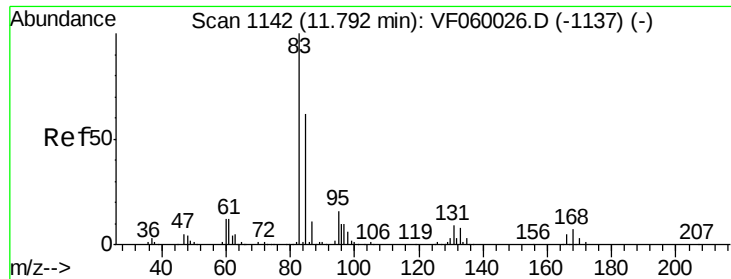
20000

10000

0

Time--> 11.40 11.50 11.60





#75

1,1,2,2-Tetrachloroethane

Concen: 23.37 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

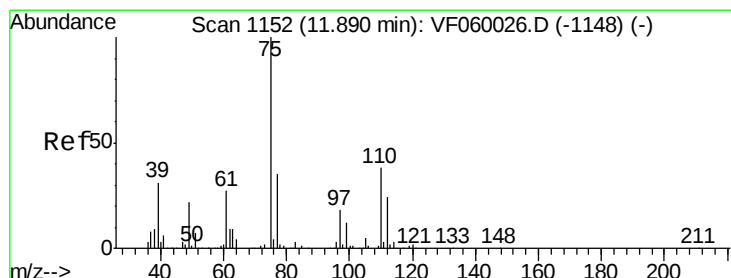
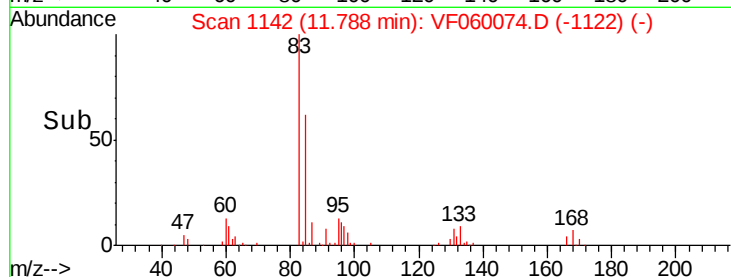
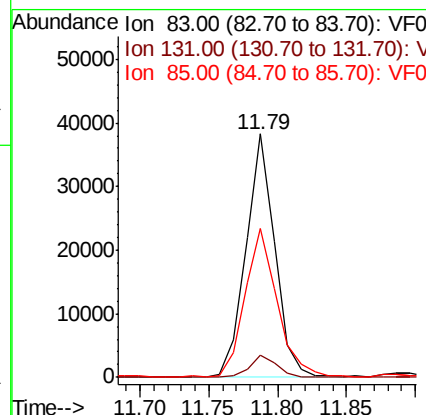
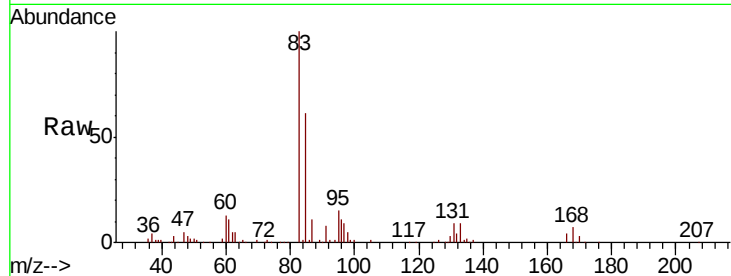
ClientSampleId :

VF0823SBS02

Tot Ion:	83	Resp:	56194
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.5	13.7
85	61.3	31.3	93.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 23.13 ug/l

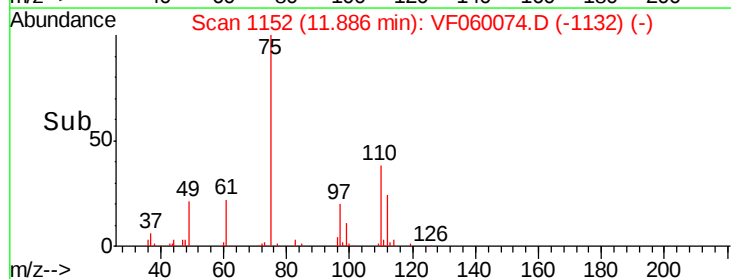
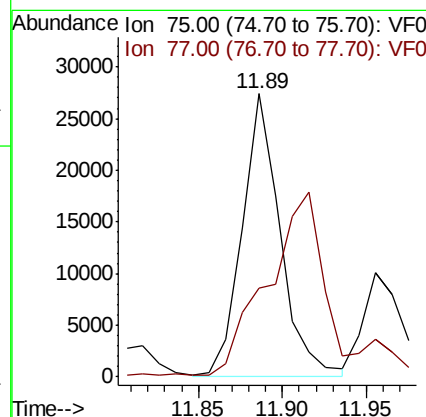
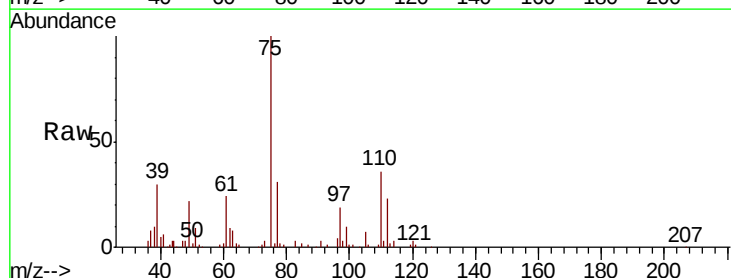
RT: 11.89 min Scan# 1152

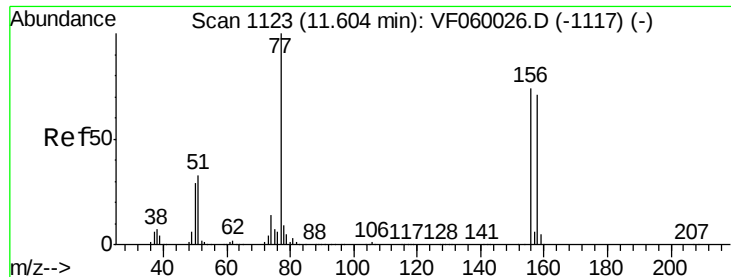
Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Tgt Ion:	75	Resp:	43132
Ion Ratio	Lower	Upper	
75	100		
77	31.3	17.3	52.0





#77

Bromobenzene

Concen: 21.06 ug/l

RT: 11.60 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion:156 Resp: 63078

Ion Ratio Lower Upper

156 100

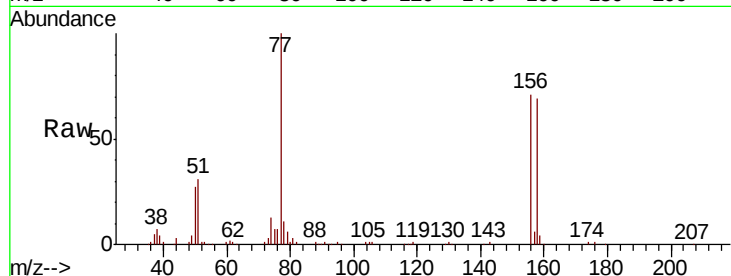
77 140.4 68.0 204.0

158 97.4 48.4 145.3

Manual Integrations
APPROVED

MMDadoda

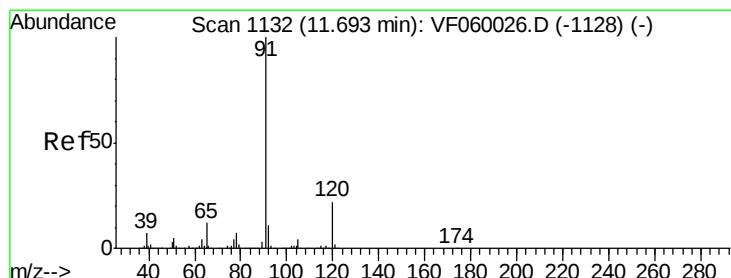
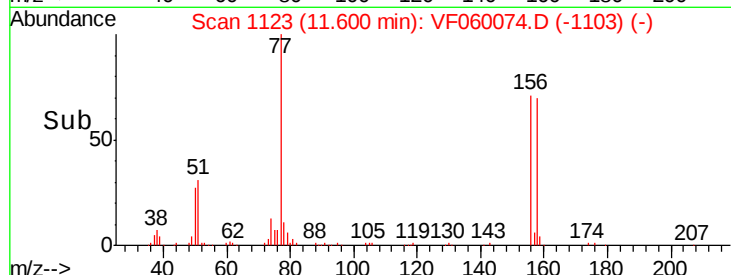
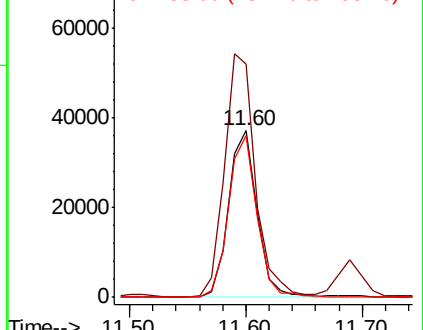
8/24/2018 4:13:22 PM



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: 22.06 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF060074.D

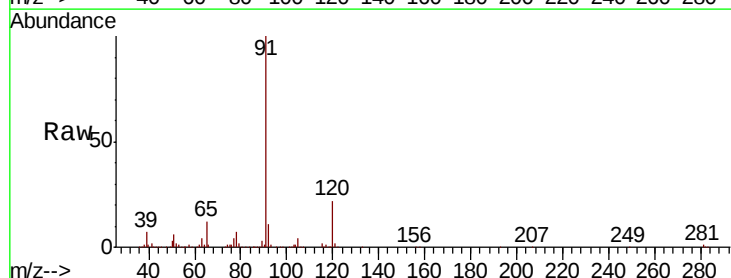
Acq: 24 Aug 2018 2:48

Tgt Ion: 91 Resp: 299861

Ion Ratio Lower Upper

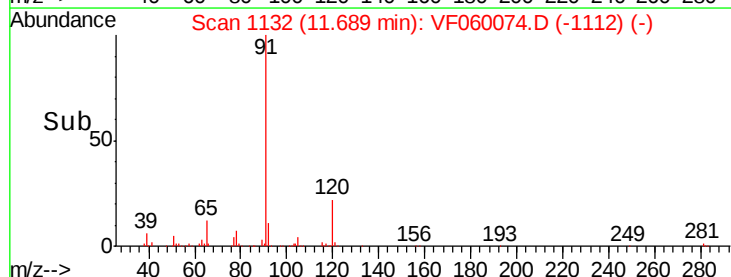
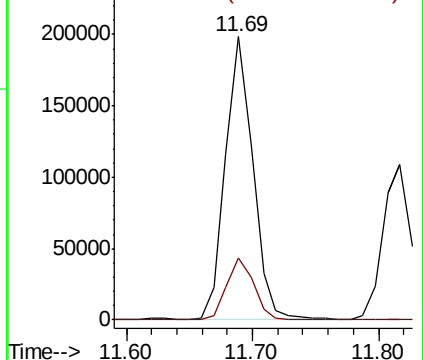
91 100

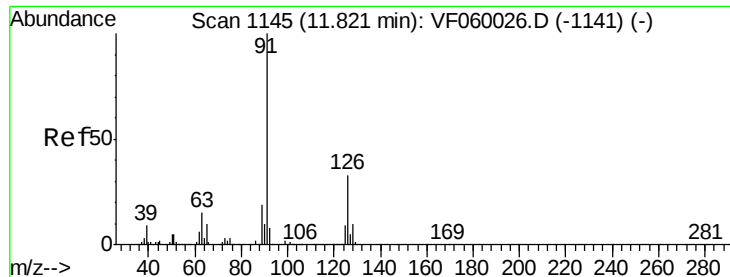
120 21.8 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





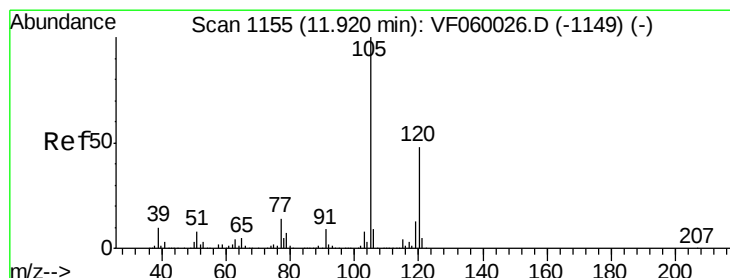
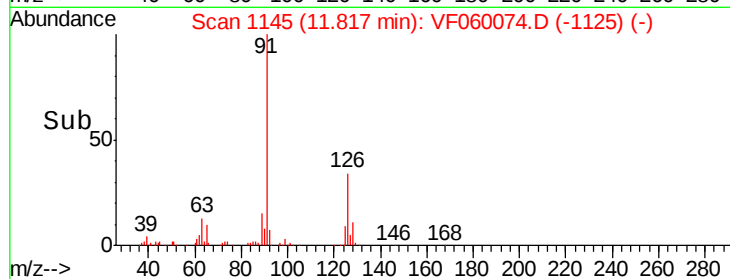
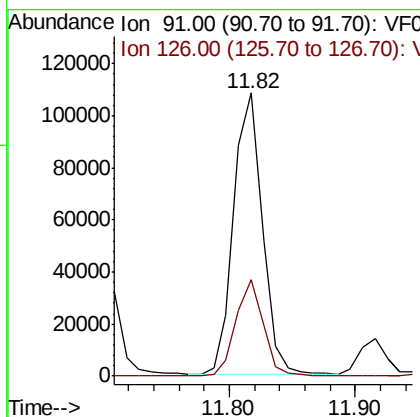
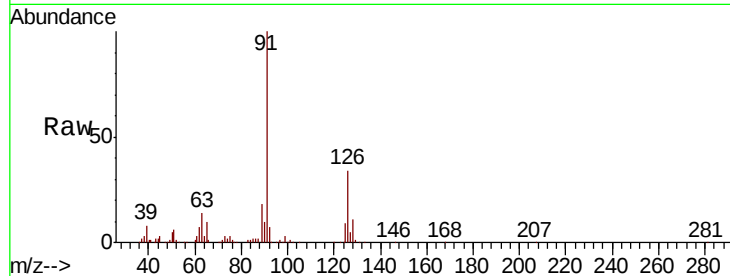
#79
 2-Chlorotoluene
 Concen: 21.32 ug/l
 RT: 11.82 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS02

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
126	34.0	16.6	49.7	

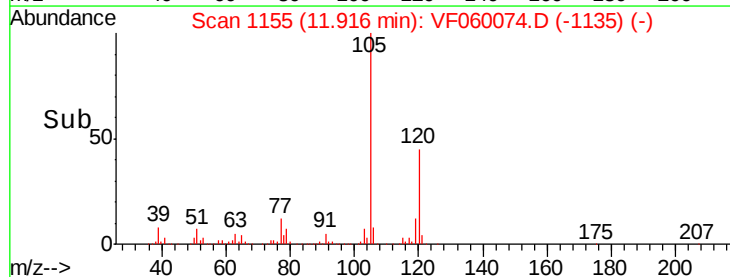
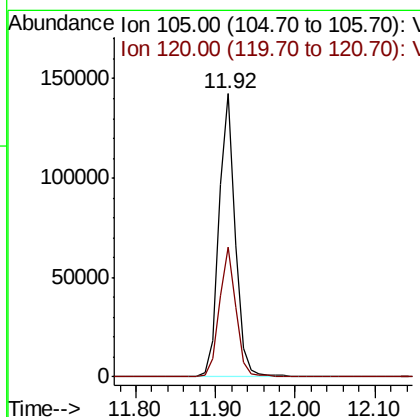
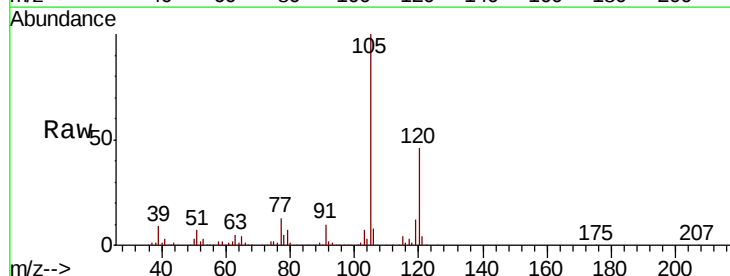
Manual Integrations
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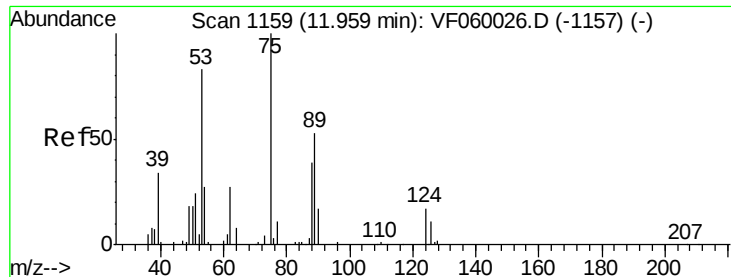
MMDadoda
 8/24/2018 4:13:22 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 21.57 ug/l
 RT: 11.92 min Scan# 1155
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Tgt Ion	Ion	Ratio	Lower	Upper
105	100			
120	45.9	23.8	71.5	





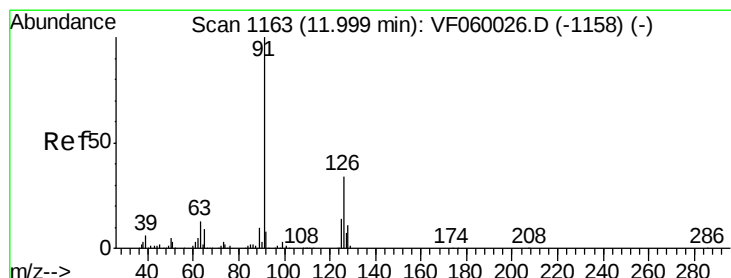
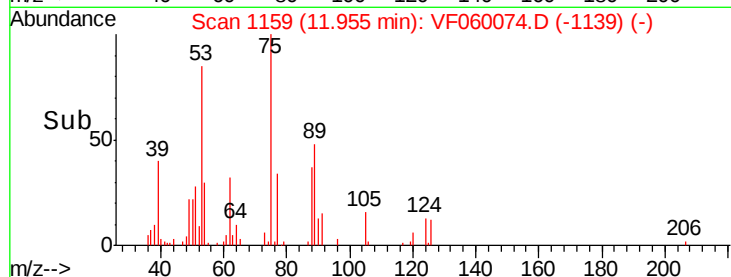
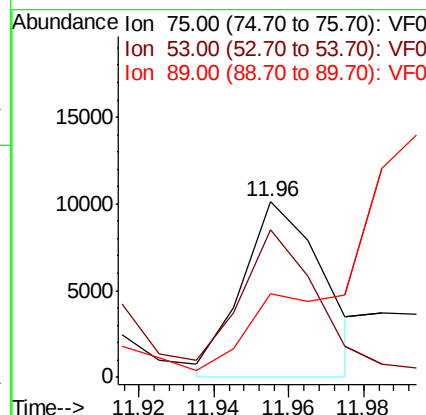
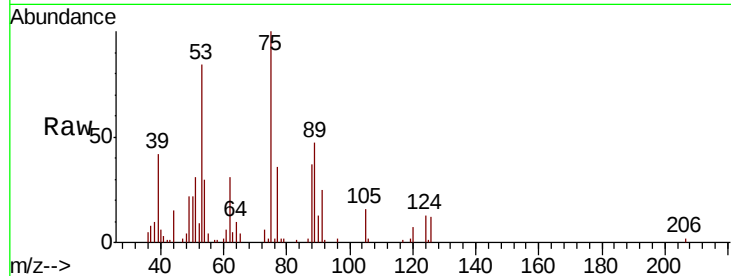
#81
trans-1,4-Dichloro-2-butene
Concen: 17.71 ug/l m
RT: 11.96 min Scan# 1159
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
75	100		
53	84.0	66.2	99.4
89	47.4	42.8	64.2

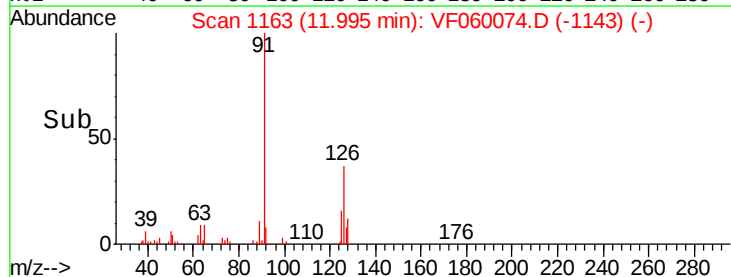
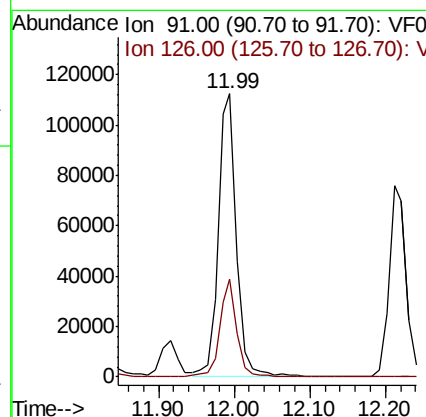
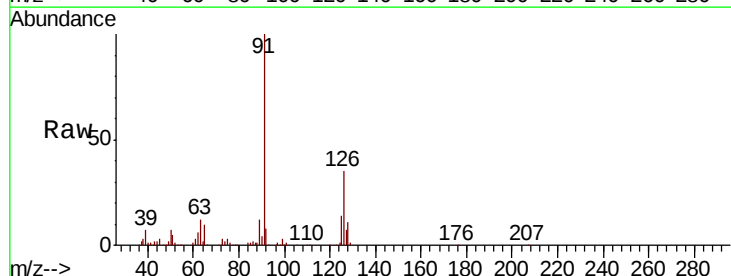
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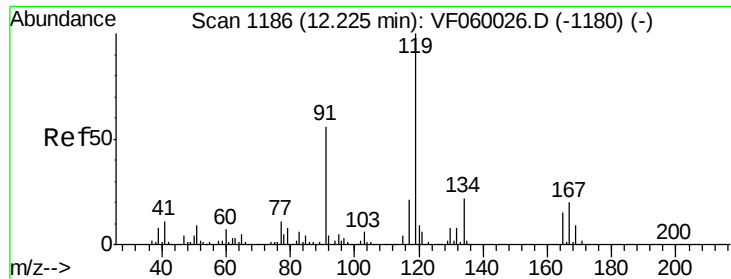
MMDadoda
8/24/2018 4:13:22 PM



#82
4-Chlorotoluene
Concen: 21.82 ug/l
RT: 11.99 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.0	50.9





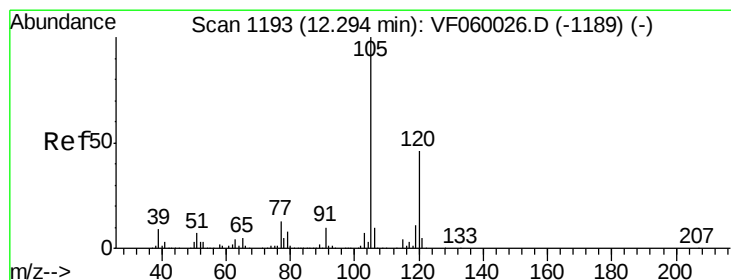
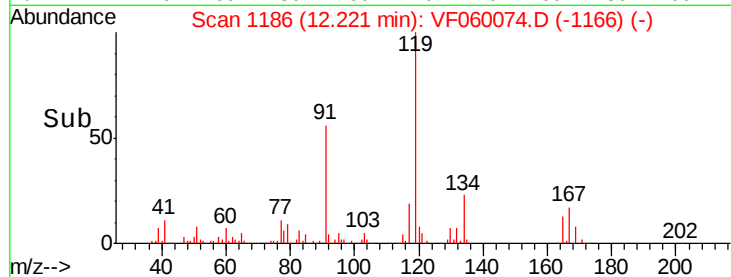
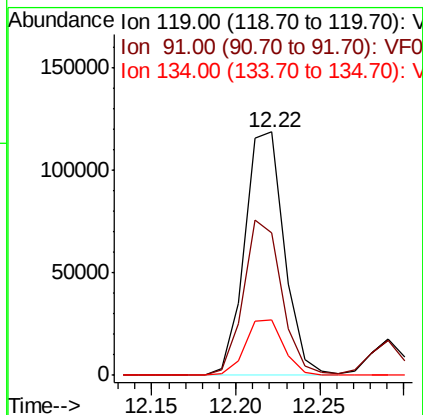
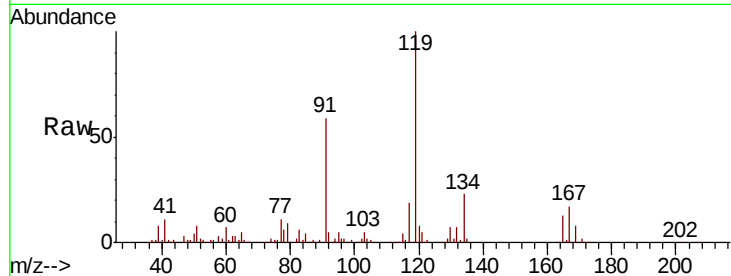
#83
tert-Butylbenzene
Concen: 20.74 ug/l
RT: 12.22 min Scan# 1186
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	194042		
91	58.7	28.1	84.3	
134	22.9	11.1	33.3	

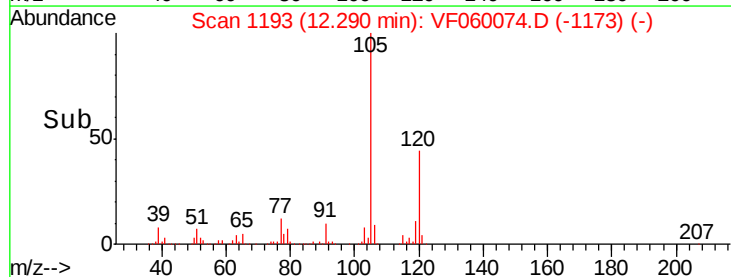
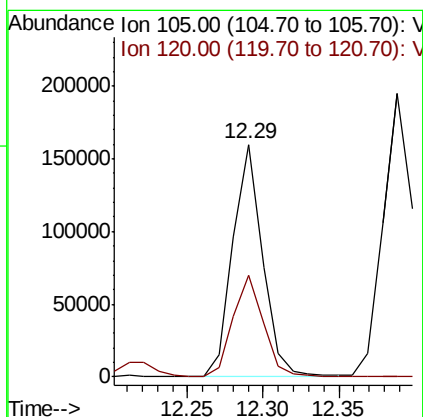
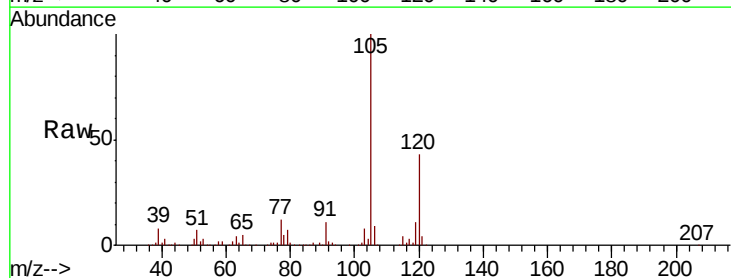
Manual Integrations
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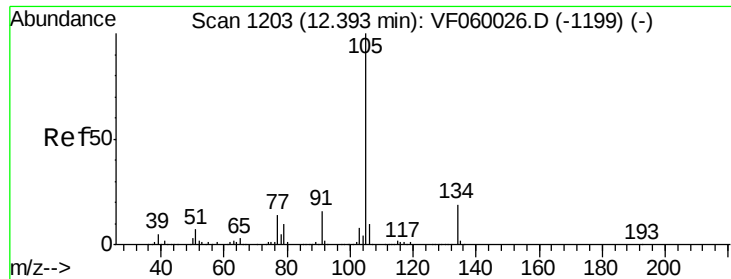
MMDadoda
8/24/2018 4:13:22 PM



#84
1,2,4-Trimethylbenzene
Concen: 21.60 ug/l
RT: 12.29 min Scan# 1193
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	220249		
120	43.5	23.3	69.8	





#85

sec-Butylbenzene

Concen: 21.20 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

Instrument :

MSVOA_F

ClientSampleId :

VF0823SBS02

Tot Ion:105 Resp: 276103

Ion Ratio Lower Upper

105 100

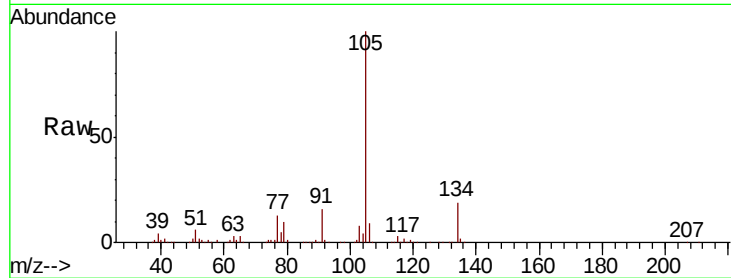
134 18.8 9.3 27.9

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.39

200000

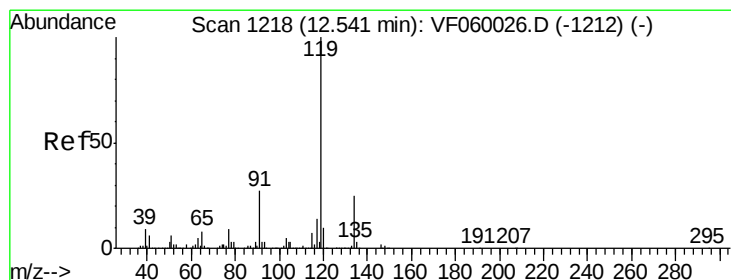
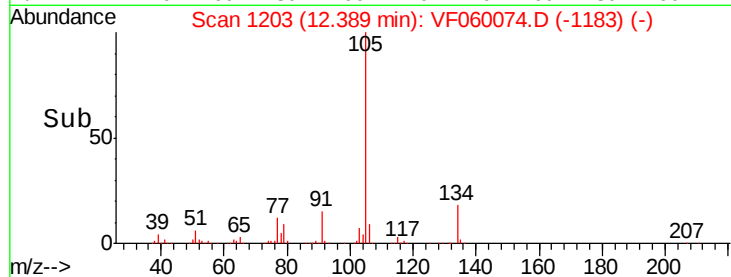
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 21.79 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF060074.D

Acq: 24 Aug 2018 2:48

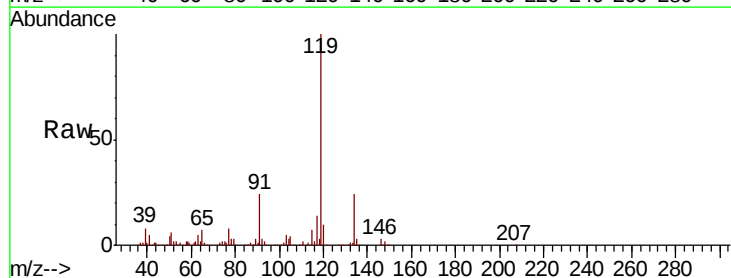
Tgt Ion:119 Resp: 235526

Ion Ratio Lower Upper

119 100

134 23.5 12.4 37.2

91 23.8 13.5 40.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

12.54

200000

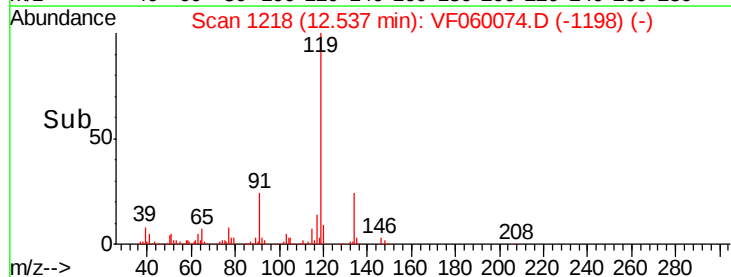
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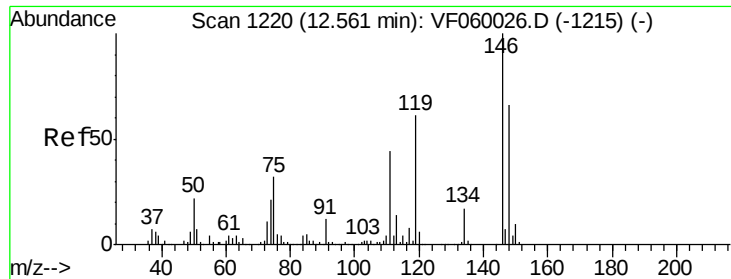
100000

50000

0

Time-->





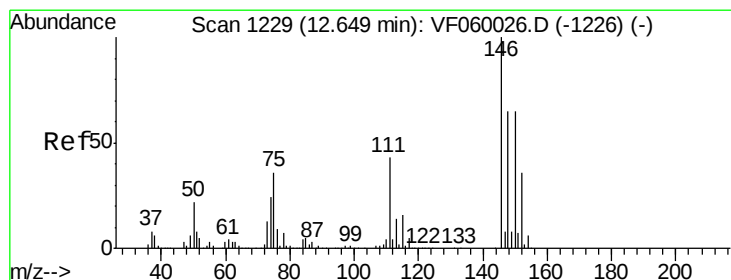
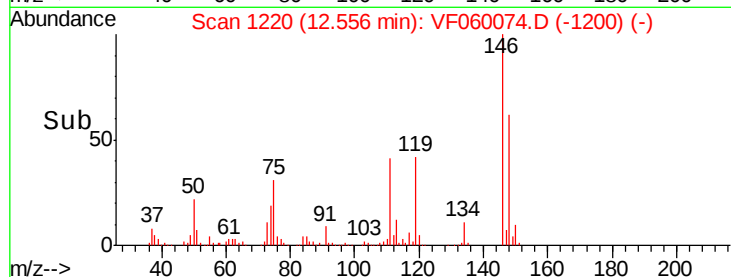
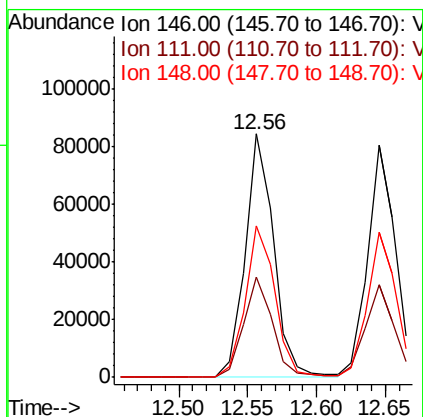
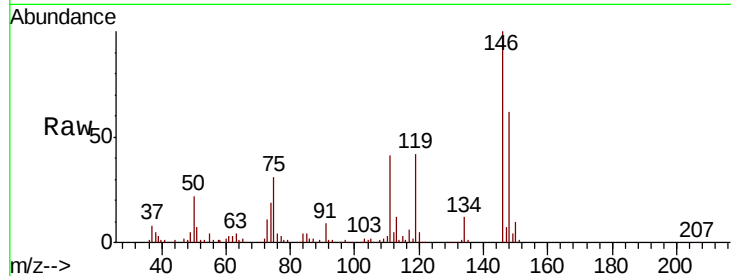
#87
 1,3-Dichlorobenzene
 Concen: 22.27 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	21.9	65.5
148	62.2	32.9	98.7

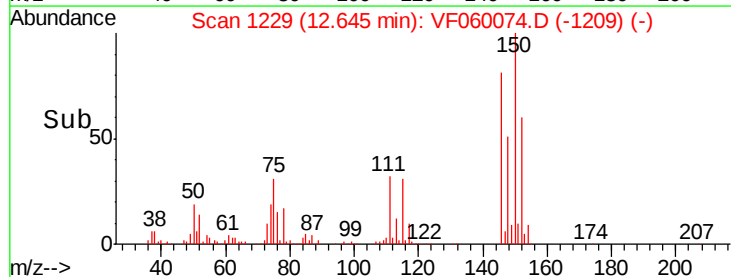
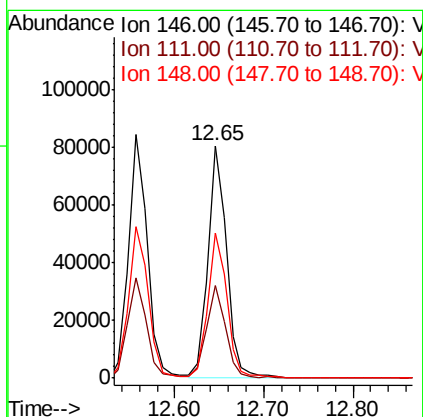
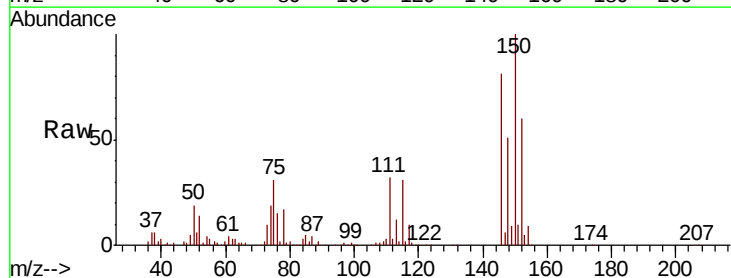
Manual Integrations
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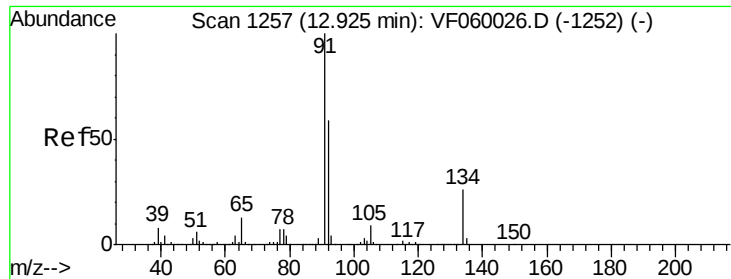
MMDadoda
 8/24/2018 4:13:22 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.29 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.6	64.8
148	62.6	32.3	96.8





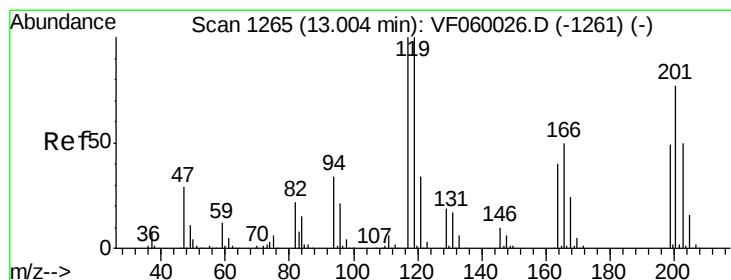
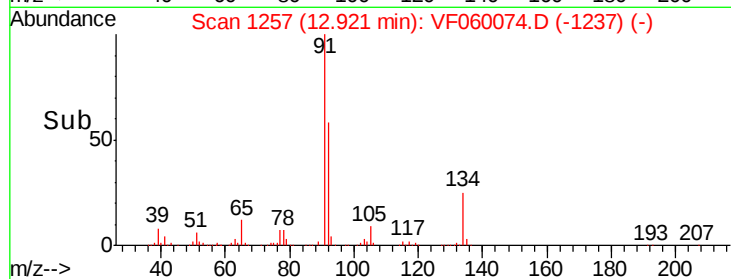
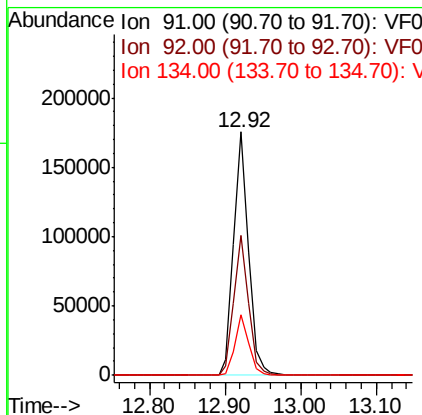
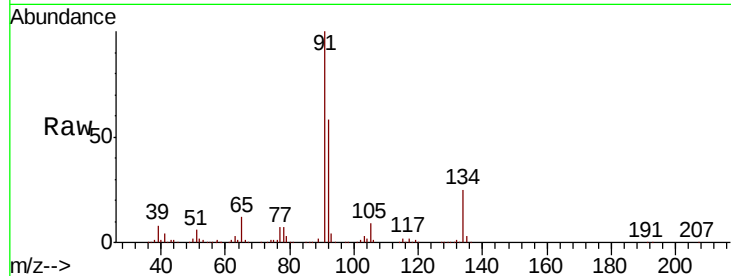
#89
n-Butylbenzene
Concen: 22.55 ug/l
RT: 12.92 min Scan# 1257
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	57.7	29.3	87.9	
134	24.7	12.8	38.3	

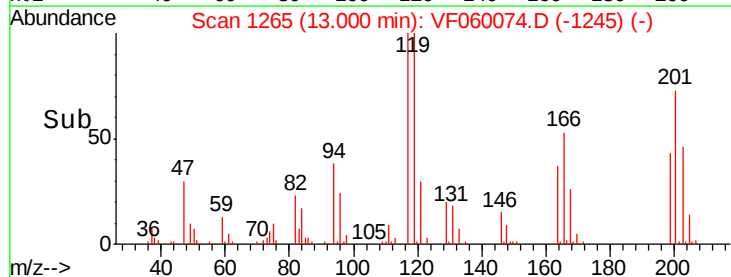
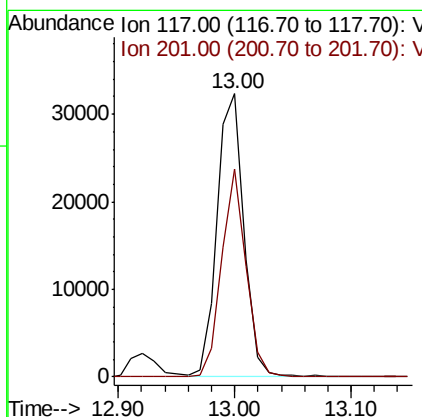
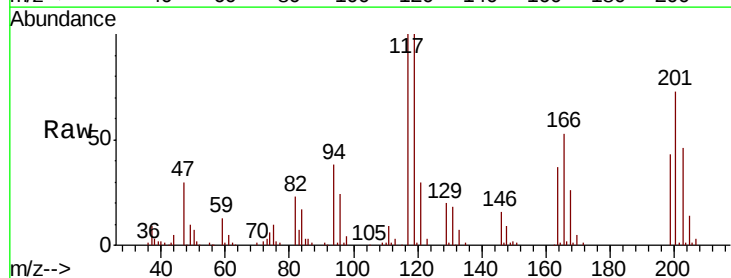
Manual Integrations
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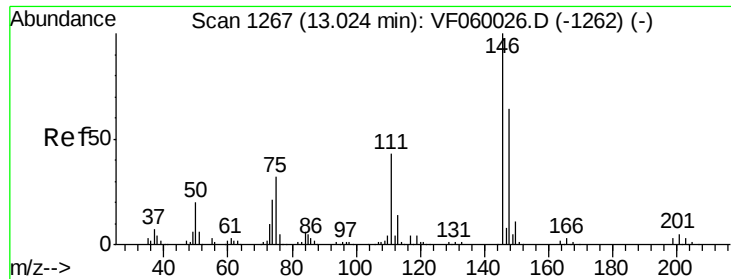
MMDadoda
8/24/2018 4:13:22 PM



#90
Hexachloroethane
Concen: 21.16 ug/l
RT: 13.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	73.4	38.6	115.8	





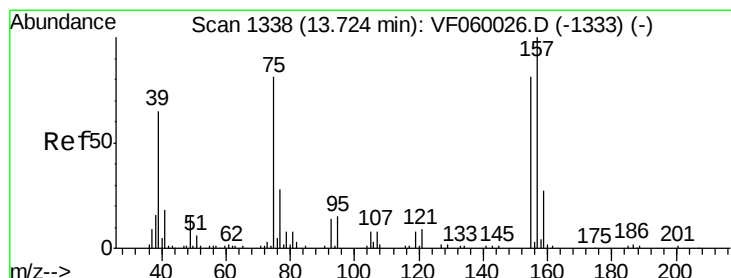
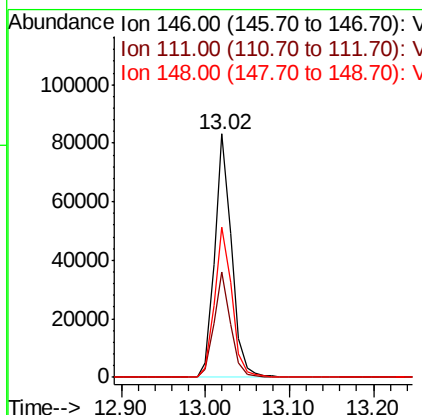
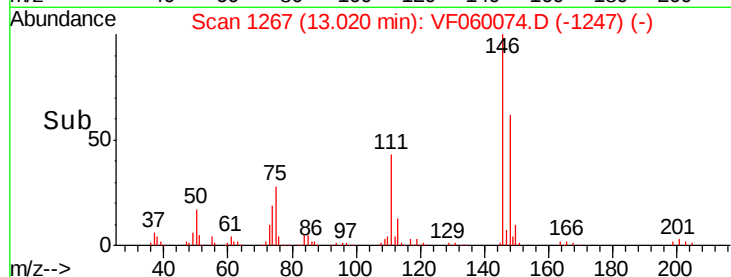
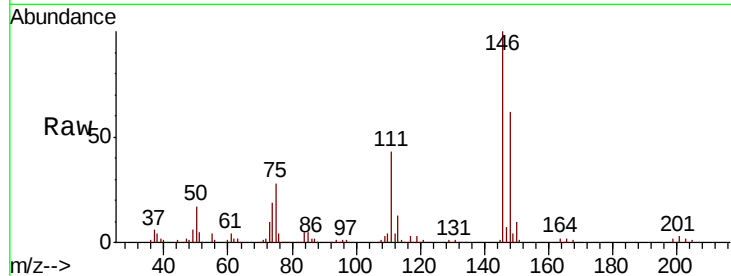
#91
 1,2-Dichlorobenzene
 Concen: 21.83 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	64.6
148	61.8	32.3	96.8

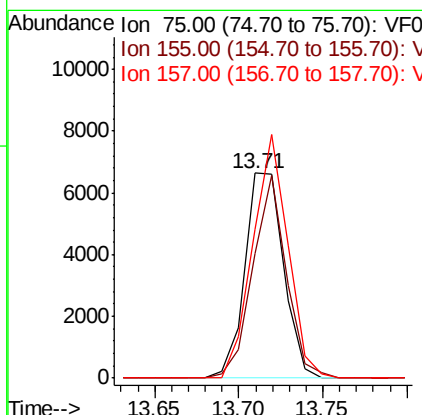
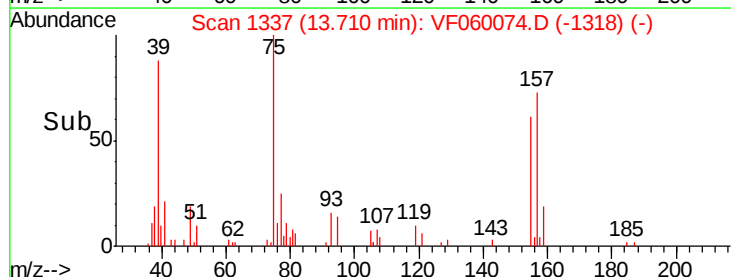
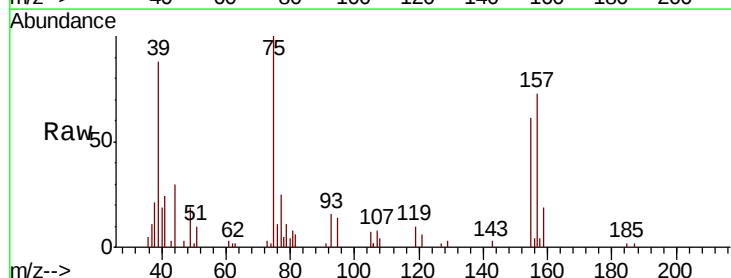
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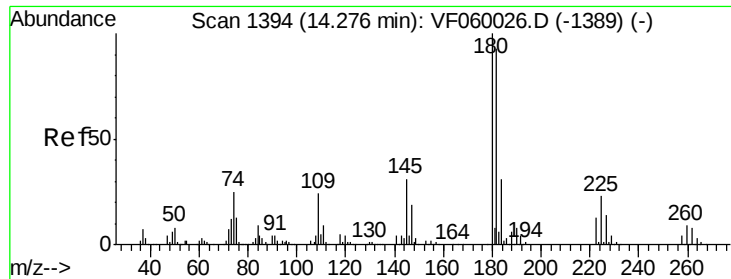
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.59 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	60.9	49.8	149.3
157	76.6	61.6	184.7





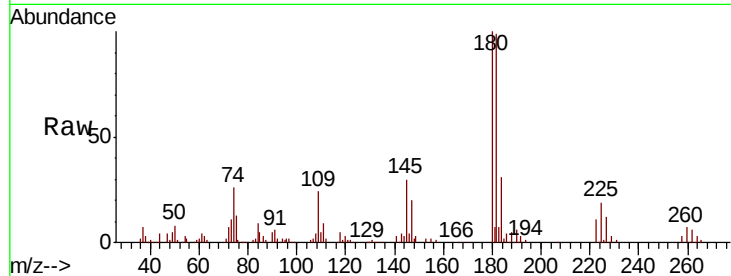
#93
 1,2,4-Trichlorobenzene
 Concen: 20.93 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0823SBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	82081		
182	98.7	46.8	140.3	
145	29.5	15.4	46.4	

Manual Integrations
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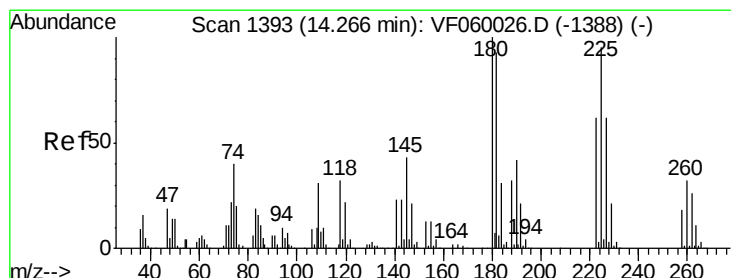
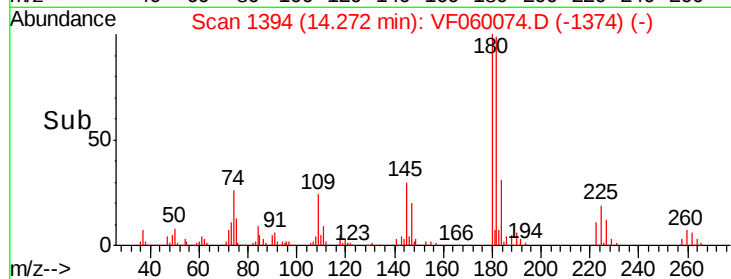
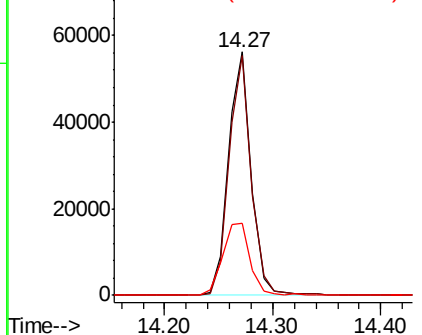


Abundance

Ion 180.00 (179.70 to 180.70): V

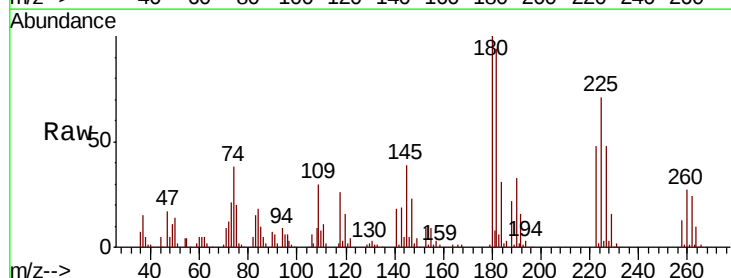
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 19.26 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF060074.D
 Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	47005		
223	68.1	32.6	97.8	
227	67.7	33.0	98.9	

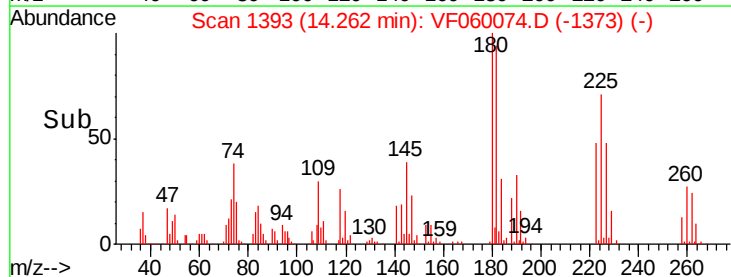
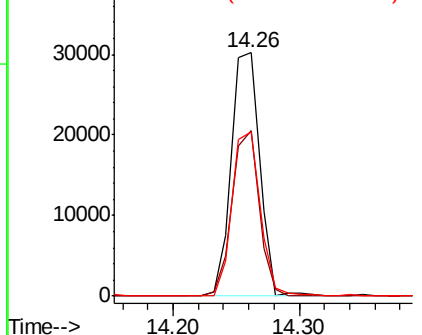


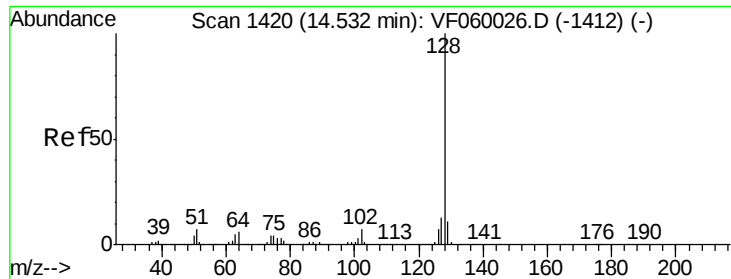
Abundance

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





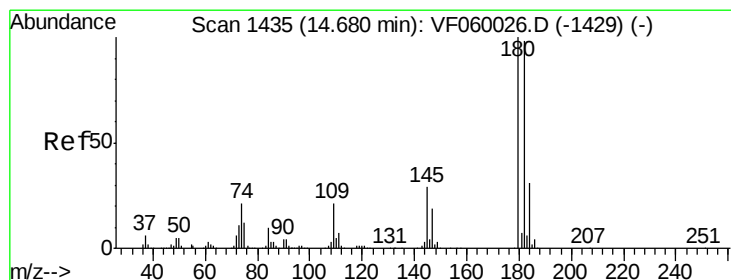
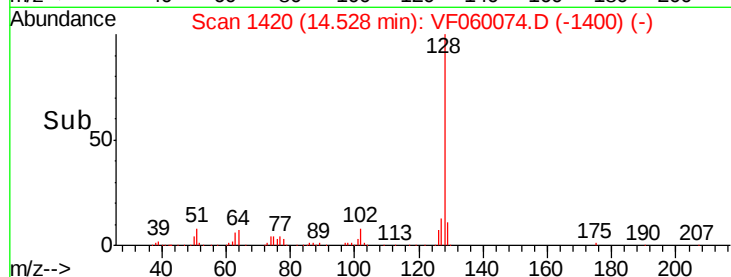
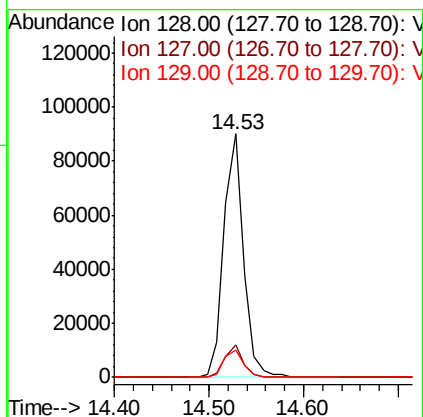
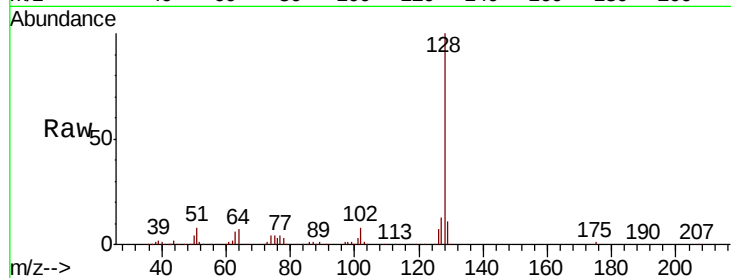
#95
Naphthalene
Concen: 20.51 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.00 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Instrument :
MSVOA_F
ClientSampleId :
VF0823SBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	11.3	8.5	12.7

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#96
1,2,3-Trichlorobenzene
Concen: 21.54 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. -0.01 min
Lab File: VF060074.D
Acq: 24 Aug 2018 2:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.4	49.0	147.2
145	34.1	14.4	43.2

