

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF073118\
 Data File : VF059722.D
 Acq On : 31 Jul 2018 21:12
 Operator : VA/AP
 Sample : VF0731SBS02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS02

Manual Integrations
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8/1/2018 4:29:25 PM

Quant Time: Aug 01 07:52:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 15:23:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	162160	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	226356	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	227940	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	152476	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	167100	57.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.68%	
35) Dibromofluoromethane	4.29	113	124362	52.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.80%	
50) Toluene-d8	7.71	98	259457	47.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.64%	
62) 4-Bromofluorobenzene	11.50	95	156024	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	57143	28.972	ug/l	98
3) Chloromethane	1.09	50	23262	21.941	ug/l	99
4) Vinyl Chloride	1.15	62	24915	22.786	ug/l	98
5) Bromomethane	1.33	94	22868	25.662	ug/l	93
6) Chloroethane	1.41	64	19155	29.546	ug/l	88
7) Trichlorofluoromethane	1.54	101	76986m	25.422	ug/l	
8) Diethyl Ether	1.71	74	11035	21.311	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.90	101	39667	25.010	ug/l #	79
10) Methyl Iodide	1.95	142	62399	26.130	ug/l	96
11) Tert butyl alcohol	2.70	59	14103	119.254	ug/l	99
12) 1,1-Dichloroethene	1.84	96	31131	24.790	ug/l	98
13) Acrolein	2.08	56	3866	74.840	ug/l #	49
14) Allyl chloride	2.19	41	48480	24.179	ug/l	98
15) Acrylonitrile	3.07	53	21966	116.687	ug/l #	80
16) Acetone	2.34	43	49612	94.642	ug/l	97
17) Carbon Disulfide	1.89	76	76592m	27.313	ug/l	
18) Methyl Acetate	2.45	43	28292	33.093	ug/l	96
19) Methyl tert-butyl Ether	2.54	73	86248	22.521	ug/l	99
20) Methylene Chloride	2.28	84	30107	22.422	ug/l	92
21) trans-1,2-Dichloroethene	2.41	96	29410	25.504	ug/l	90
22) Diisopropyl ether	2.93	45	95991	22.639	ug/l	94
23) Vinyl Acetate	3.33	43	221541	101.629	ug/l	98
24) 1,1-Dichloroethane	3.00	63	73021	24.788	ug/l	96
25) 2-Butanone	4.51	43	57178	97.738	ug/l #	87
26) 2,2-Dichloropropane	3.76	77	51934	24.731	ug/l	93
27) cis-1,2-Dichloroethene	3.63	96	34009	21.559	ug/l	95
28) Bromochloromethane	3.88	49	26656	23.560	ug/l	87
29) Tetrahydrofuran	4.26	42	23244	103.378	ug/l	99
30) Chloroform	4.03	83	97117	23.359	ug/l	98
31) Cyclohexane	3.85	56	33714	21.243	ug/l	85
32) 1,1,1-Trichloroethane	4.27	97	83597	25.923	ug/l	97
36) 1,1-Dichloropropene	4.46	75	57398	22.906	ug/l	94
37) Ethyl Acetate	4.29	43	26741	20.982	ug/l	87
38) Carbon Tetrachloride	4.16	117	86854m	24.133	ug/l	

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8/1/2018 4:29:25 PM

Quant Time: Aug 01 07:52:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 15:23:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	43000	22.198	ug/l	90
40) Benzene	4.80	78	99068	21.672	ug/l	95
41) Methacrylonitrile	4.92	41	12874	20.962	ug/l #	84
42) 1,2-Dichloroethane	5.12	62	79808	24.947	ug/l	99
43) Isopropyl Acetate	7.12	43	24850	18.360	ug/l #	94
44) Trichloroethene	5.67	130	39954	23.244	ug/l	94
45) 1,2-Dichloropropane	6.41	63	27156	22.495	ug/l	100
46) Dibromomethane	6.25	93	27919	24.360	ug/l	93
47) Bromodichloromethane	6.55	83	76212	24.418	ug/l	100
48) Methyl methacrylate	6.87	41	18160	17.838	ug/l	95
49) 1,4-Dioxane	6.86	88	2844	410.236	ug/l #	87
51) 4-Methyl-2-Pentanone	8.40	43	112514	109.278	ug/l	96
52) Toluene	7.78	92	73465	22.700	ug/l	94
53) t-1,3-Dichloropropene	8.42	75	60743	22.429	ug/l	94
54) cis-1,3-Dichloropropene	7.45	75	56008	21.351	ug/l	99
55) 1,1,2-Trichloroethane	8.64	97	26833	21.674	ug/l	95
56) Ethyl methacrylate	8.75	69	24822	19.225	ug/l	98
57) 1,3-Dichloropropane	9.00	76	46915	22.089	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.78	63	17550	117.731	ug/l	100
59) 2-Hexanone	9.63	43	74653	90.480	ug/l	88
60) Dibromochloromethane	8.86	129	50406	23.074	ug/l	99
61) 1,2-Dibromoethane	9.14	107	32817	22.701	ug/l	89
64) Tetrachloroethene	8.30	164	43530	26.185	ug/l	97
65) Chlorobenzene	9.94	112	99786	21.884	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.07	131	50419	23.684	ug/l	98
67) Ethyl Benzene	10.04	91	179741	22.783	ug/l	98
68) m/p-Xylenes	10.26	106	129063	48.285	ug/l	93
69) o-Xylene	10.82	106	67444	23.201	ug/l	99
70) Styrene	10.90	104	100667	22.859	ug/l	99
71) Bromoform	10.88	173	33429	24.099	ug/l	94
73) Isopropylbenzene	11.23	105	215083	21.498	ug/l	100
74) N-amyl acetate	11.46	43	47696	18.896	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.78	83	40968	21.754	ug/l	98
76) 1,2,3-Trichloropropane	11.88	75	34394	21.477	ug/l	93
77) Bromobenzene	11.59	156	56128	21.484	ug/l	93
78) n-propylbenzene	11.68	91	257269	22.313	ug/l	97
79) 2-Chlorotoluene	11.81	91	162681	22.819	ug/l	99
80) 1,3,5-Trimethylbenzene	11.91	105	217790	25.010	ug/l	90
81) trans-1,4-Dichloro-2-buten	11.96	75	15097m	22.764	ug/l	
82) 4-Chlorotoluene	11.99	91	175763	23.356	ug/l	97
83) tert-Butylbenzene	12.21	119	209071	23.279	ug/l	98
84) 1,2,4-Trimethylbenzene	12.28	105	211819	23.944	ug/l	99
85) sec-Butylbenzene	12.38	105	260728	22.556	ug/l	94
86) p-Isopropyltoluene	12.54	119	225792	22.240	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	109077	22.342	ug/l	97
88) 1,4-Dichlorobenzene	12.65	146	103159	21.564	ug/l	97
89) n-Butylbenzene	12.91	91	222210	23.200	ug/l	93
90) Hexachloroethane	12.99	117	60479	23.967	ug/l	91
91) 1,2-Dichlorobenzene	13.01	146	111529	24.500	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.71	75	10133	22.010	ug/l	83

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ALS Vial : 100 Sample Multiplier: 1

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MSVOA_F
ClientSampleId :
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Manual Integrations
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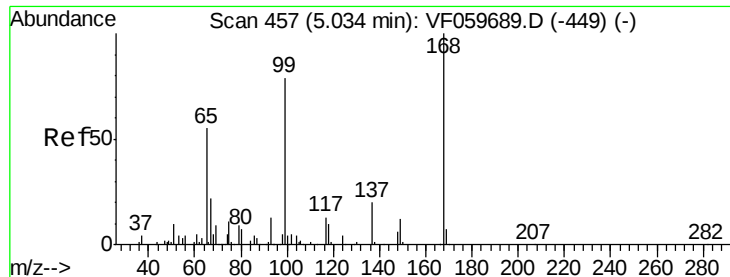
apatel

8/1/2018 4:29:25 PM

Quant Time: Aug 01 07:52:56 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 31 15:23:22 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	84123	22.718	ug/l	97
94) Hexachlorobutadiene	14.25	225	59775	23.901	ug/l	96
95) Naphthalene	14.52	128	135258	20.575	ug/l	98
96) 1,2,3-Trichlorobenzene	14.67	180	80236	22.082	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion:168 Resp: 162160

Ion Ratio Lower Upper

168 100

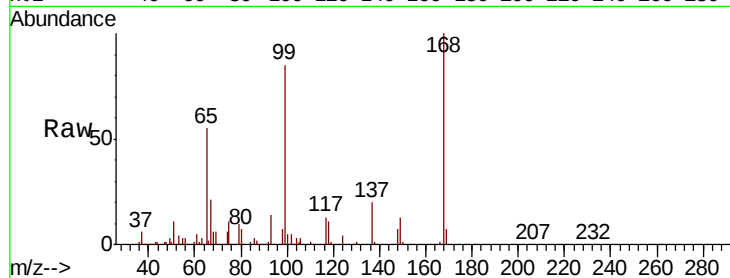
99 84.8 63.3 94.9

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

50000

40000

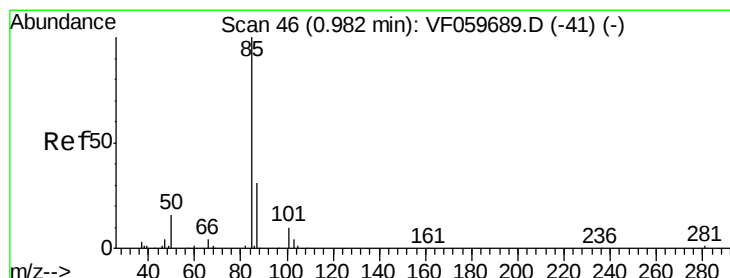
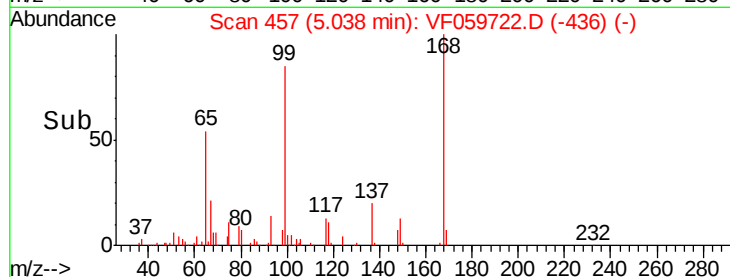
30000

20000

10000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 28.972 ug/l

RT: 0.99 min Scan# 46

Delta R.T. 0.00 min

Lab File: VF059722.D

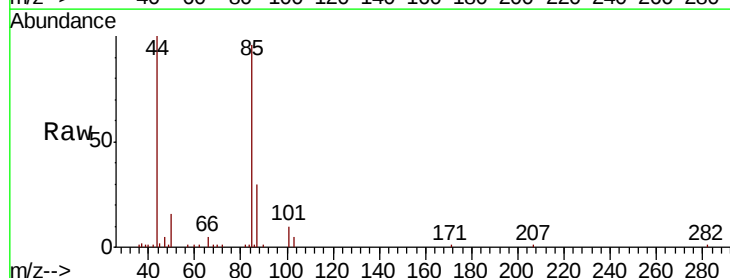
Acq: 31 Jul 2018 21:12

Tgt Ion: 85 Resp: 57143

Ion Ratio Lower Upper

85 100

87 31.3 15.3 45.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

20000

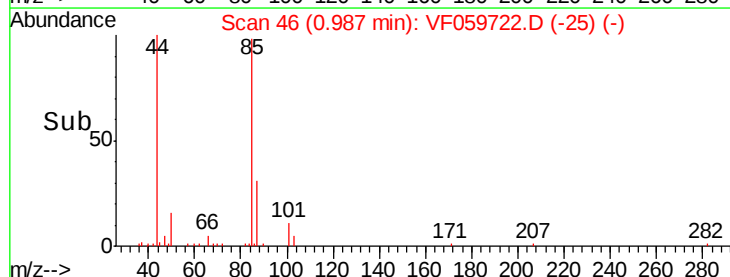
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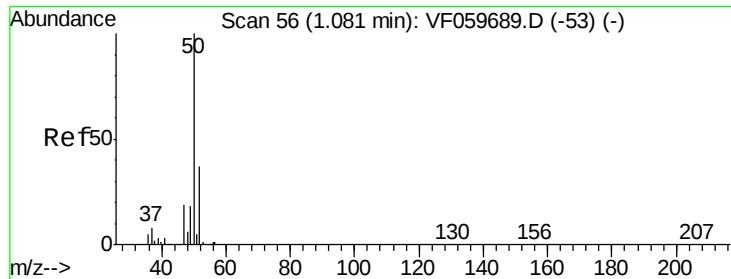
10000

5000

0

Time-->





#3

Chloromethane

Concen: 21.941 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion: 50 Resp: 23262

Ion Ratio Lower Upper

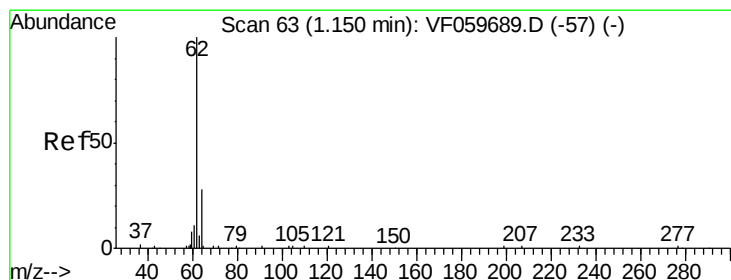
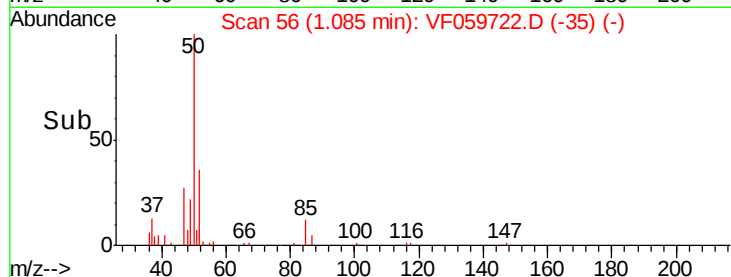
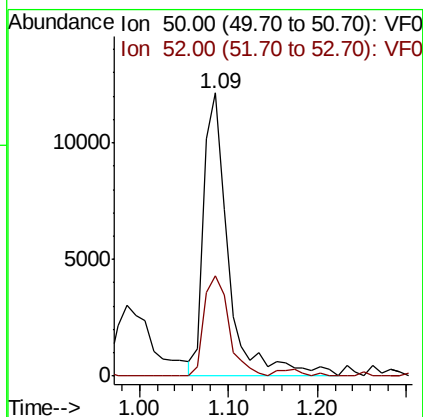
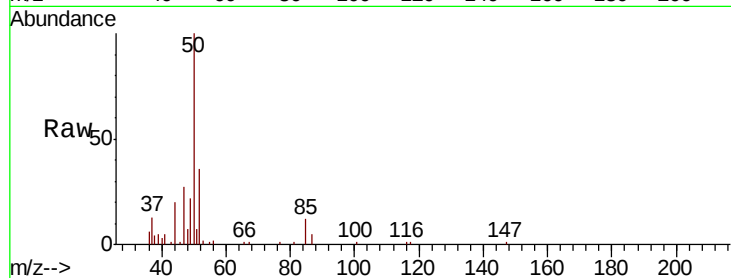
50 100

52 35.7 29.1 43.7

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#4

Vinyl Chloride

Concen: 22.786 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF059722.D

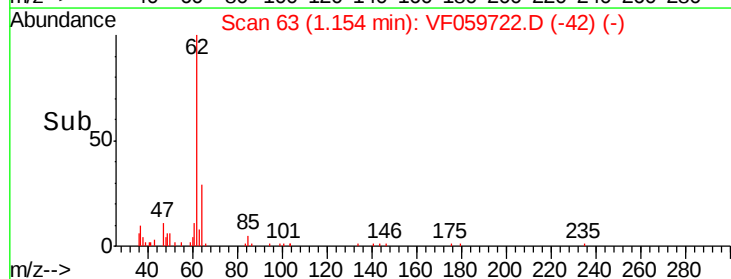
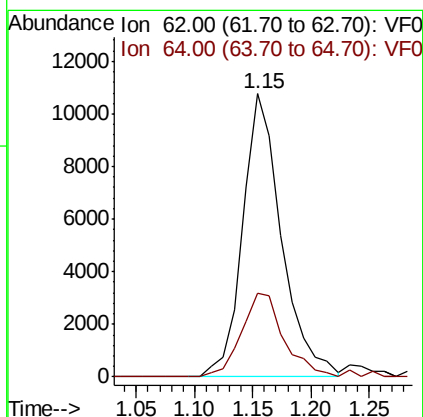
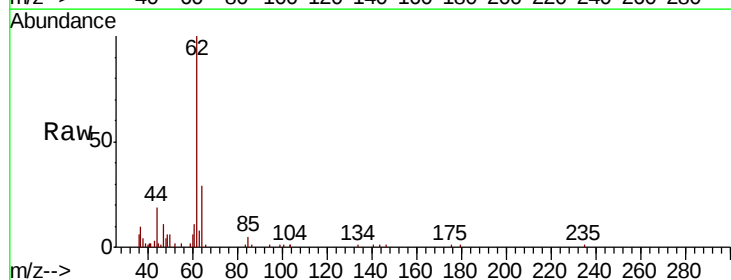
Acq: 31 Jul 2018 21:12

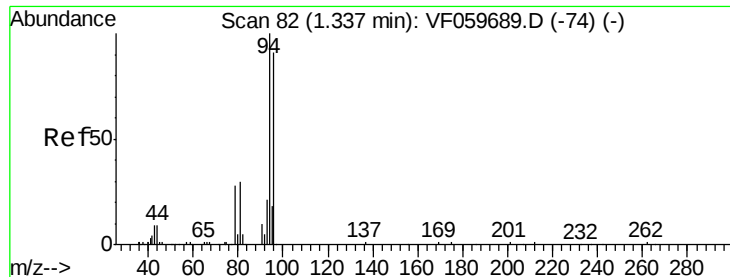
Tgt Ion: 62 Resp: 24915

Ion Ratio Lower Upper

62 100

64 29.3 22.6 33.8





#5

Bromomethane

Concen: 25.662 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion: 94 Resp: 22868

Ion Ratio Lower Upper

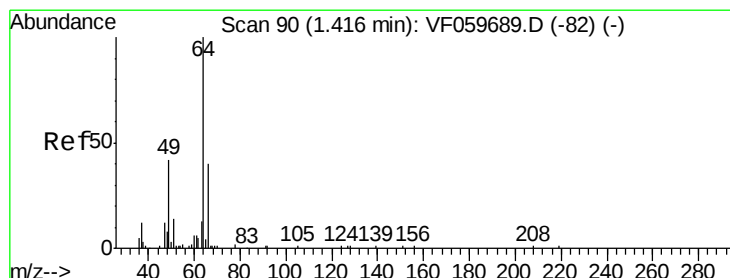
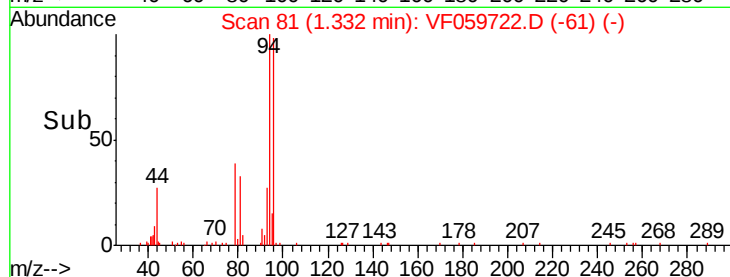
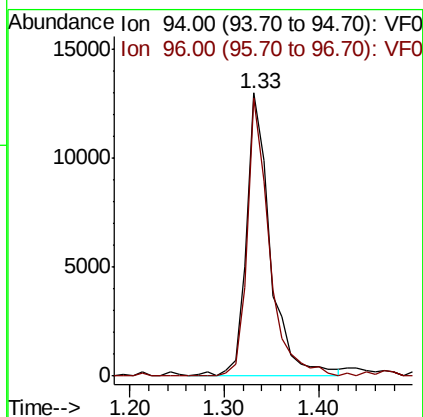
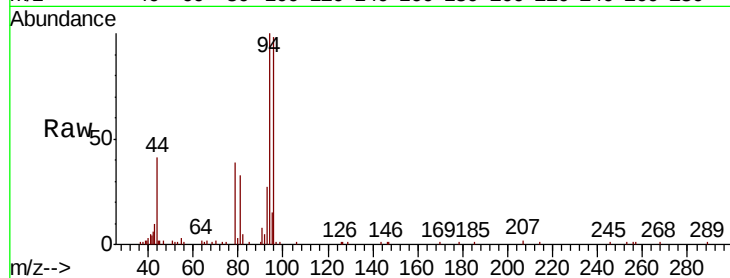
94 100

96 99.0 73.6 110.4

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#6

Chloroethane

Concen: 29.546 ug/l

RT: 1.41 min Scan# 89

Delta R.T. -0.01 min

Lab File: VF059722.D

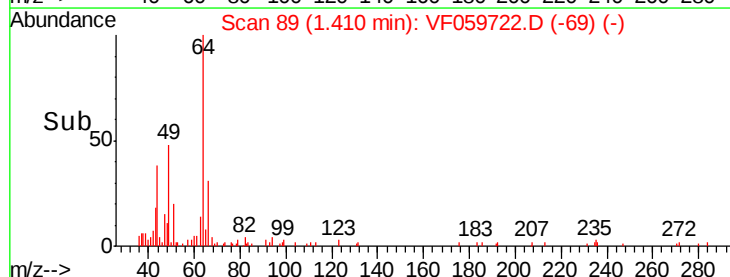
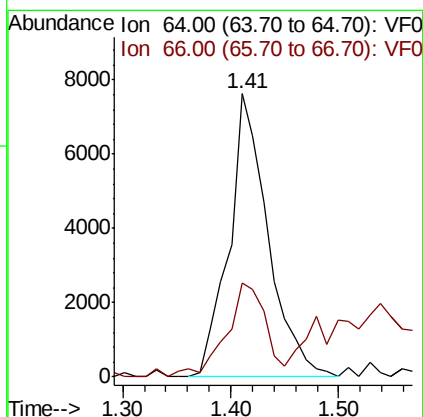
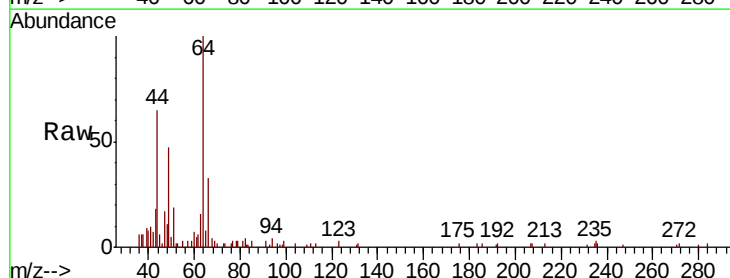
Acq: 31 Jul 2018 21:12

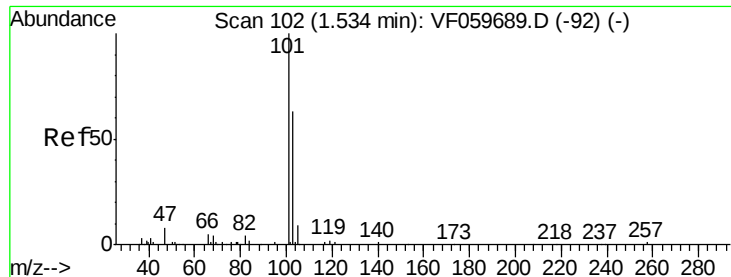
Tgt Ion: 64 Resp: 19155

Ion Ratio Lower Upper

64 100

66 33.0 32.6 49.0





#7

Trichlorofluoromethane
Concen: 25.422 ug/l m
RT: 1.54 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

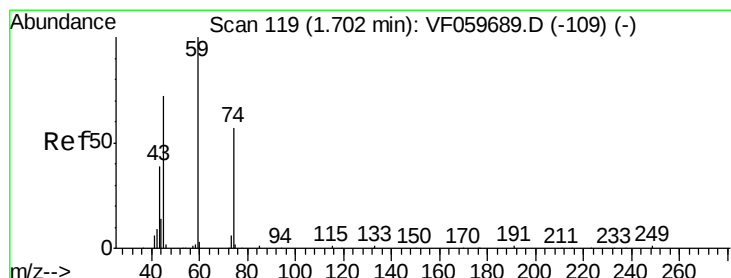
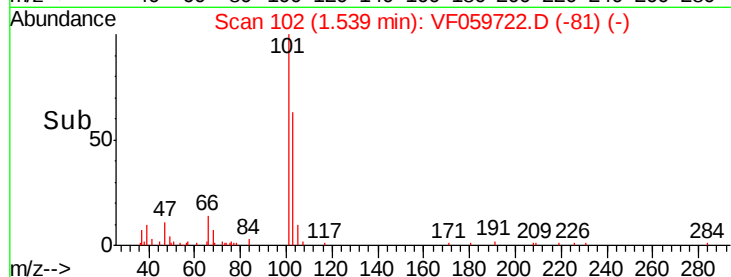
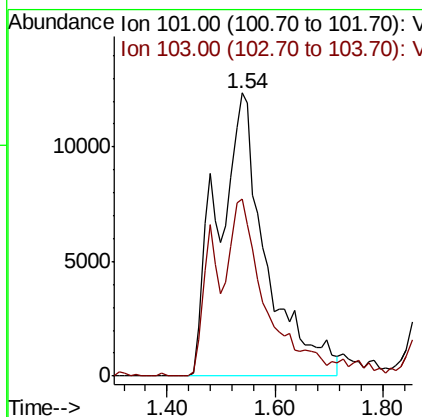
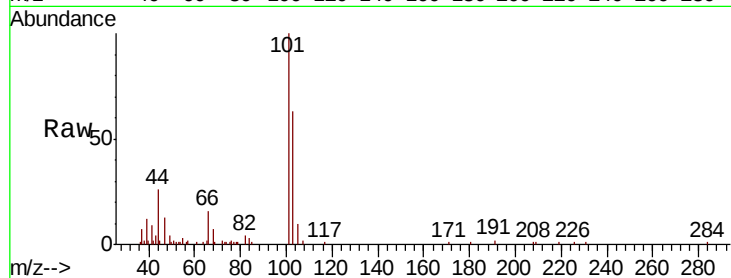
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.5	50.8	76.2

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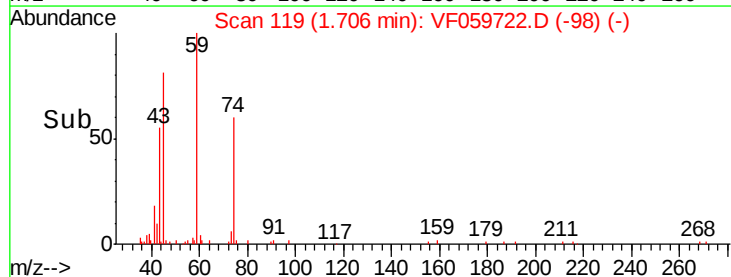
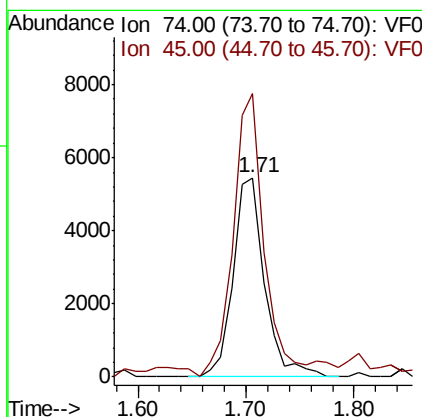
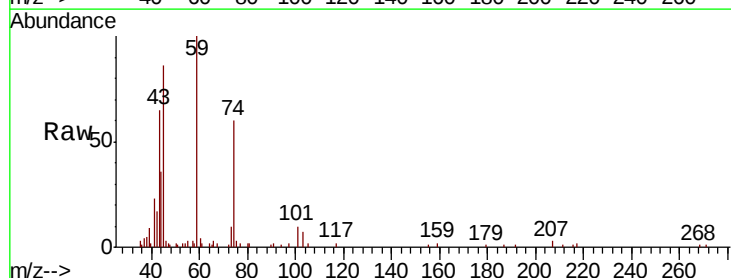
8/1/2018 4:29:25 PM

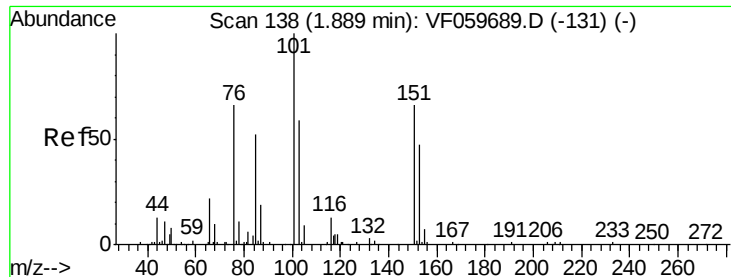


#8

Diethyl Ether
Concen: 21.311 ug/l
RT: 1.71 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	142.3	62.7	188.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.010 ug/l

RT: 1.90 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampled :

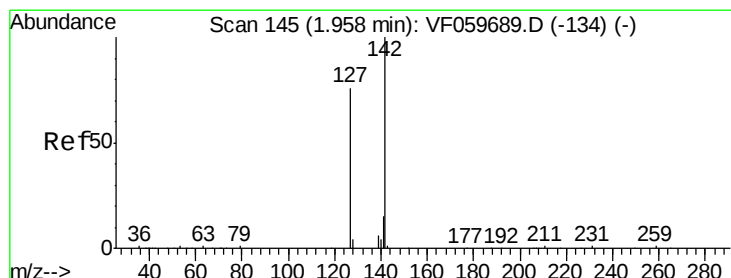
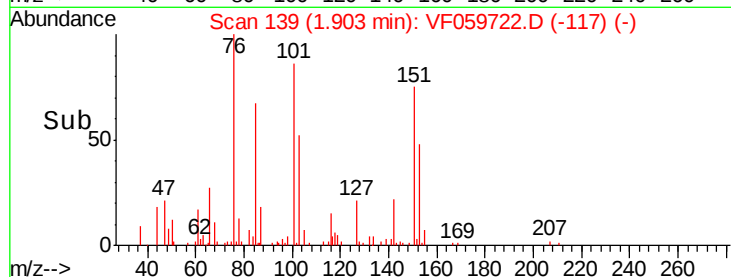
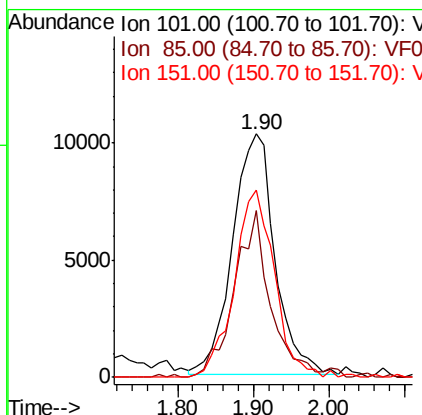
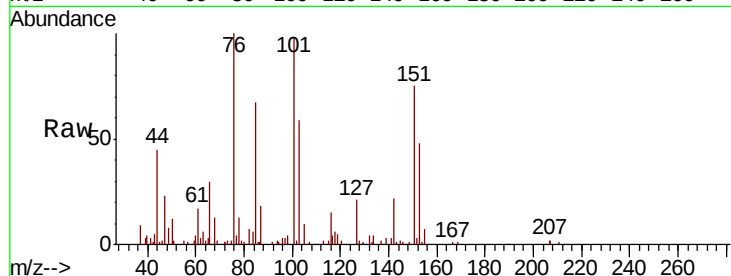
VF0731SBS02

Tot Ion:	101	Resp:	39667
Ion Ratio	Lower	Upper	
101	100		
85	69.3	40.7	61.1#
151	77.0	51.4	77.2

Manual Integrations
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#10

Methyl Iodide

Concen: 26.130 ug/l

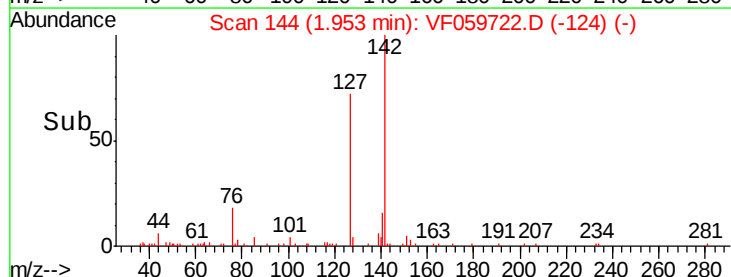
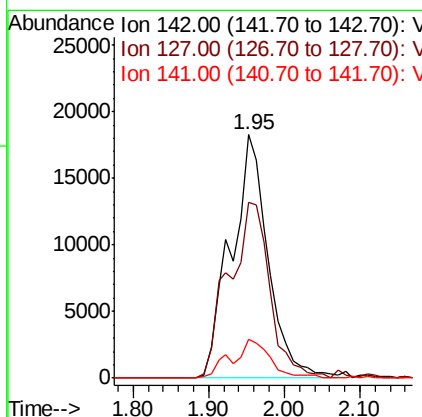
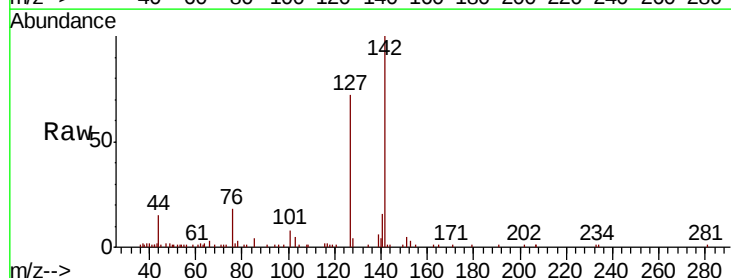
RT: 1.95 min Scan# 144

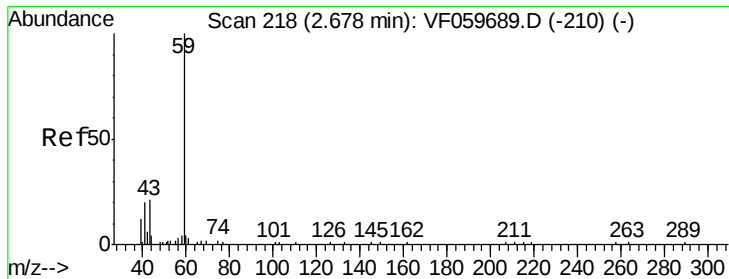
Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion:	142	Resp:	62399
Ion Ratio	Lower	Upper	
142	100		
127	72.0	60.6	91.0
141	16.0	12.0	18.0





#11
Tert butyl alcohol
Concen: 119.254 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.02 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

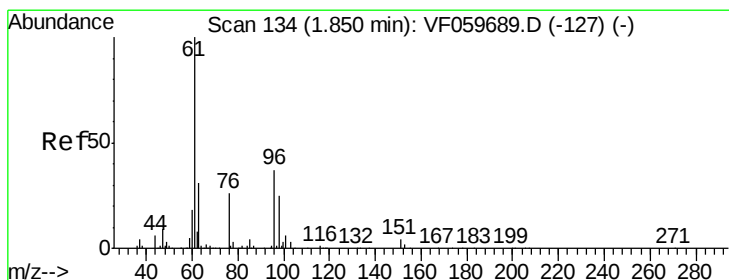
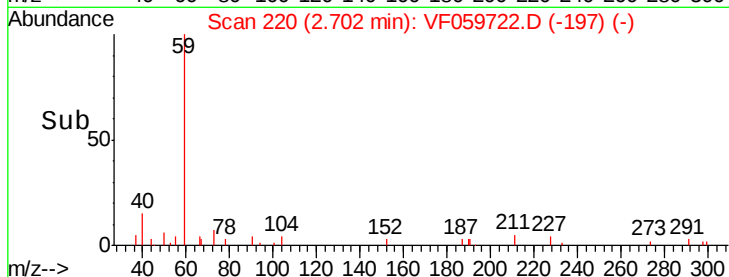
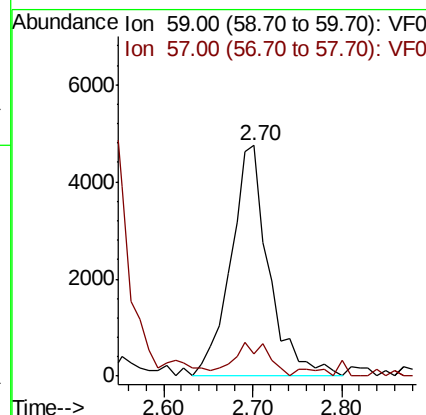
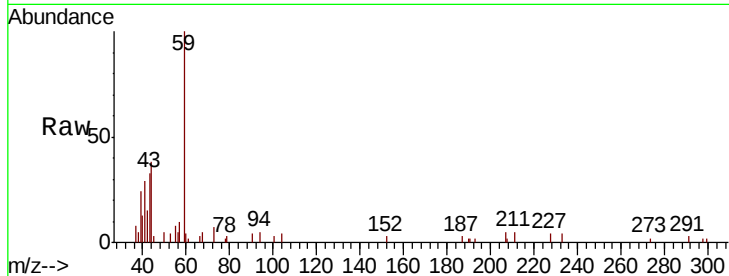
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	7.6	11.4

Manual Integrations
APPROVED

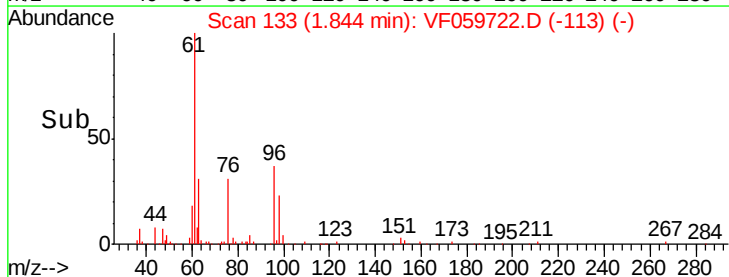
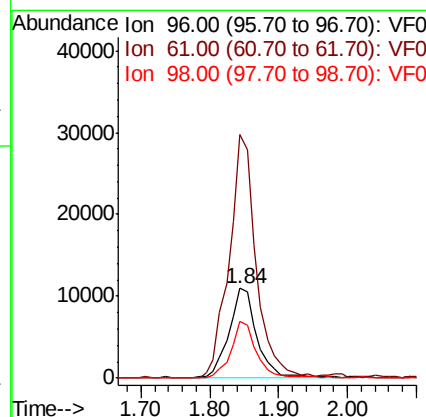
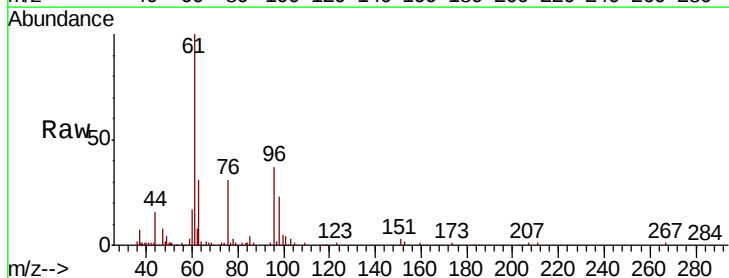
apatel

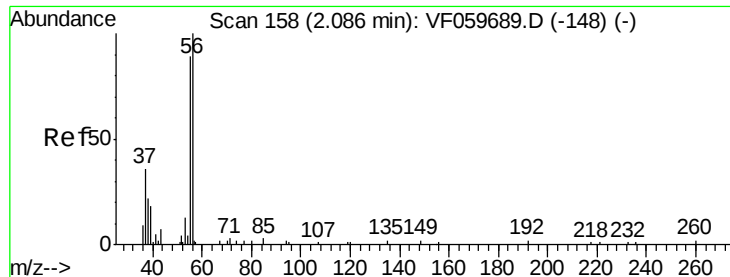
8/1/2018 4:29:25 PM



#12
1,1-Dichloroethene
Concen: 24.790 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	271.6	215.1	322.7
98	63.2	54.3	81.5





#13
Acrolein
Concen: 74.840 ug/l
RT: 2.08 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

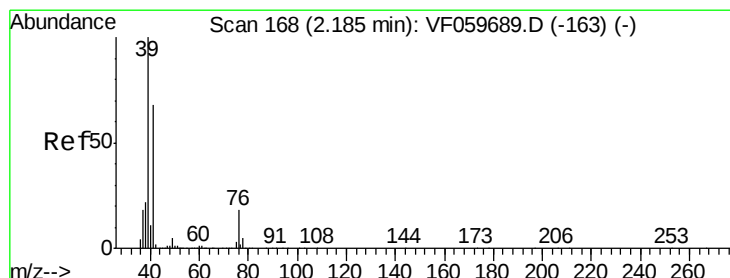
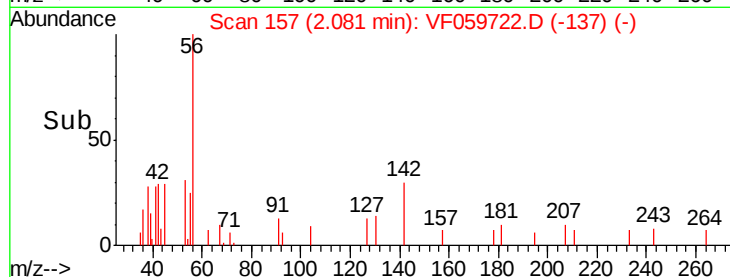
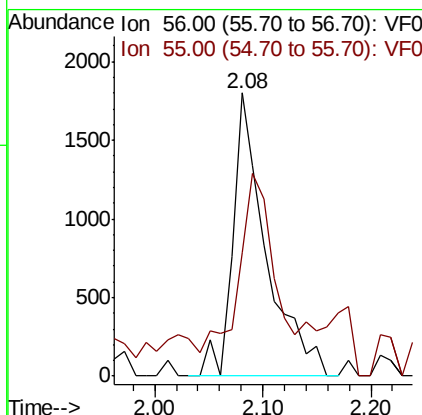
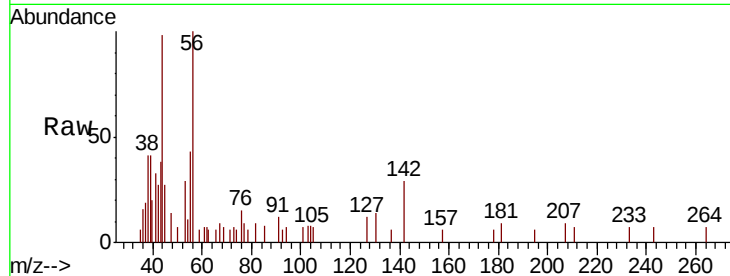
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	56	Resp	3866
Ion Ratio	Lower	Upper	
56	100		
55	43.4	73.2	109.8#

Manual Integrations
APPROVED

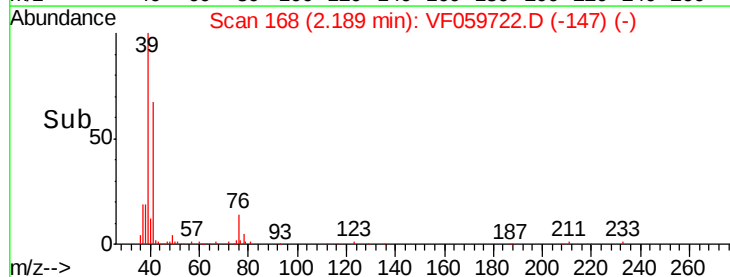
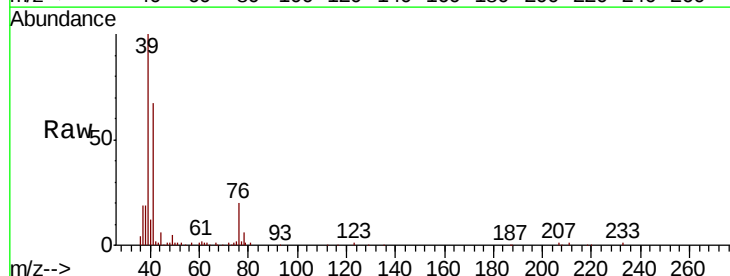
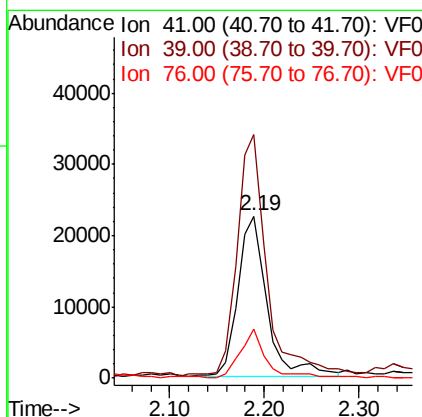
apatel

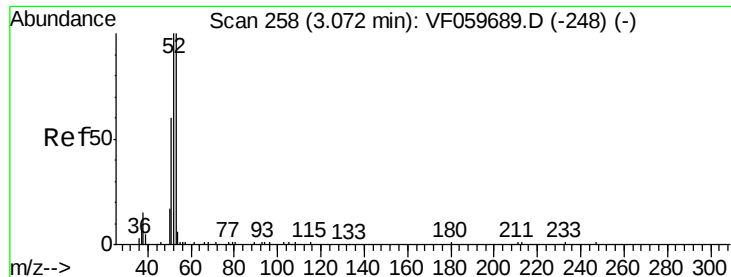
8/1/2018 4:29:25 PM



#14
Allyl chloride
Concen: 24.179 ug/l
RT: 2.19 min Scan# 168
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	41	Resp	48480
Ion Ratio	Lower	Upper	
41	100		
39	150.1	118.1	177.1
76	30.0	22.0	33.0





#15

Acrylonitrile

Concen: 116.687 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

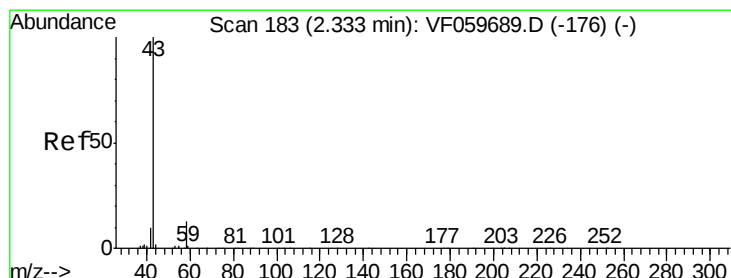
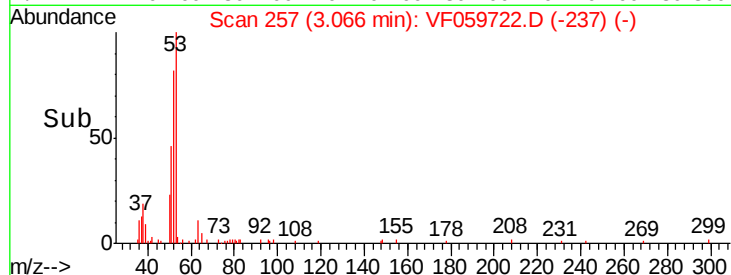
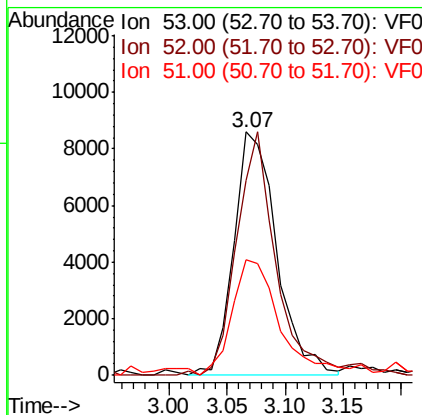
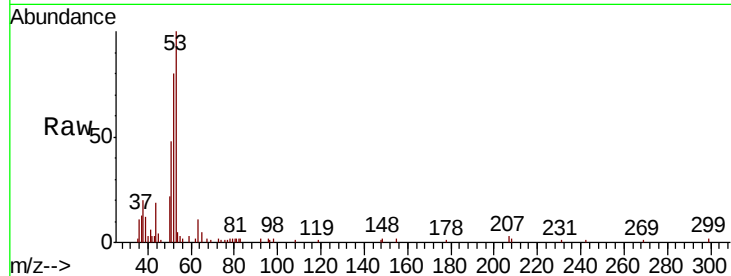
VF0731SBS02

Tot Ion:	53	Resp:	21966
Ion	Ratio	Lower	Upper
53	100		
52	80.0	80.3	120.5#
51	47.6	49.4	74.0#

Manual Integrations
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#16

Acetone

Concen: 94.642 ug/l

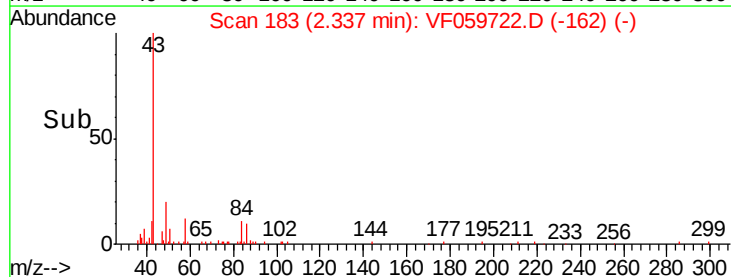
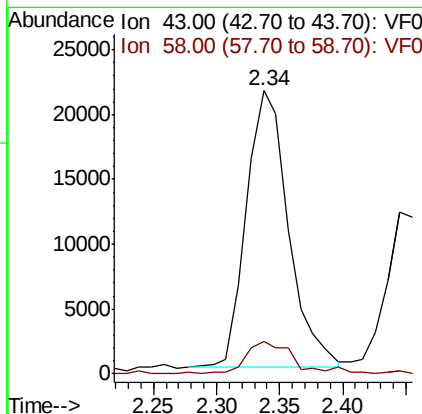
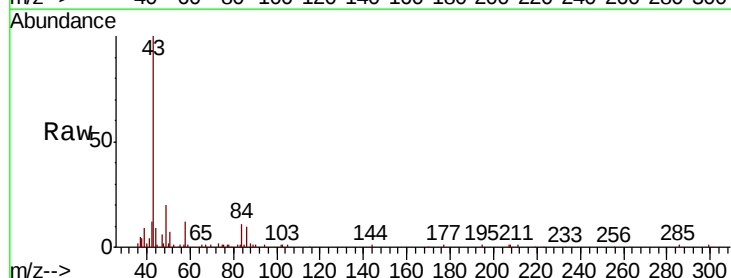
RT: 2.34 min Scan# 183

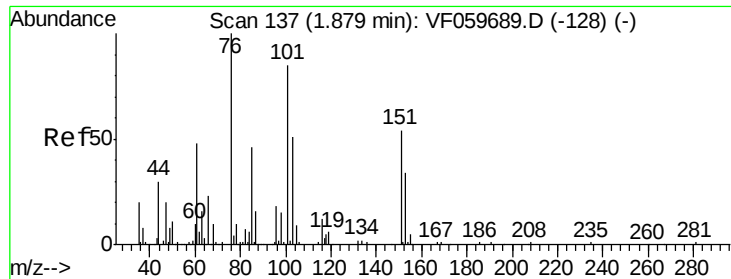
Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion:	43	Resp:	49612
Ion	Ratio	Lower	Upper
43	100		
58	11.6	10.1	15.1





#17
Carbon Disulfide
Concen: 27.313 ug/l m
RT: 1.89 min Scan# 138
Delta R.T. 0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

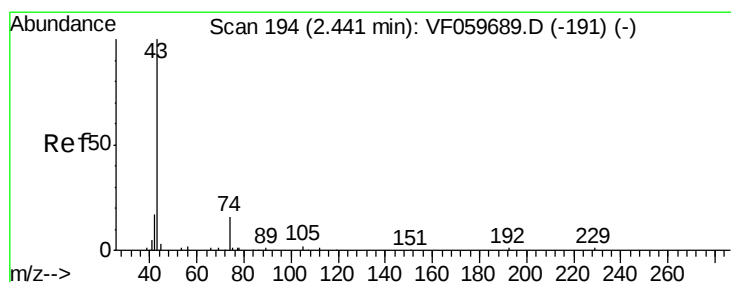
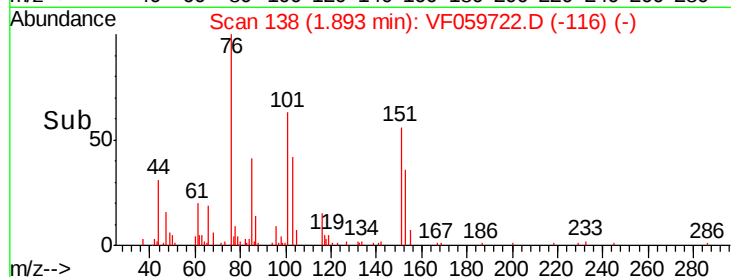
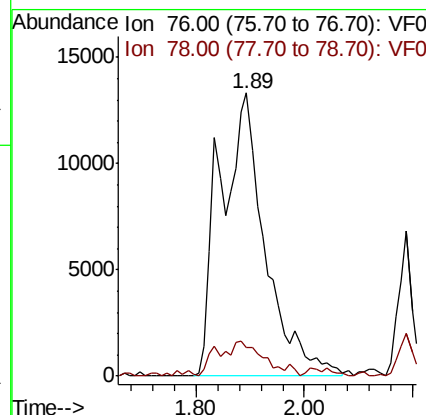
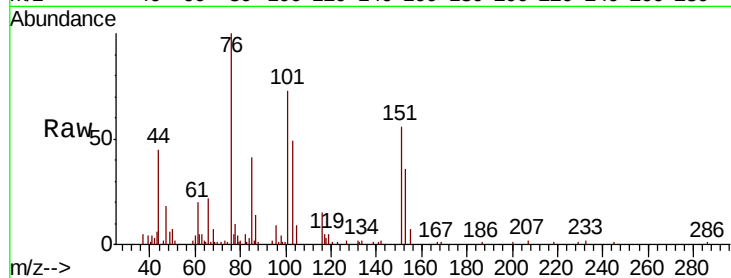
Instrument :
MSVOA_F
ClientSampled :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.9	8.9	13.3

Manual Integrations
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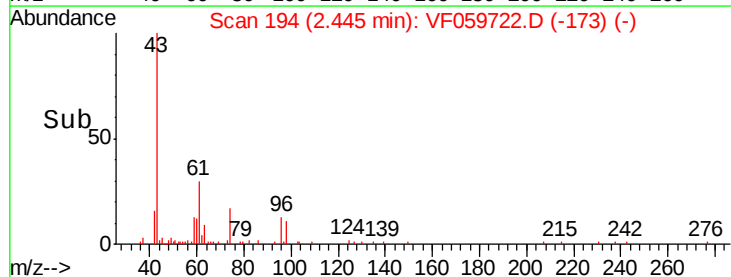
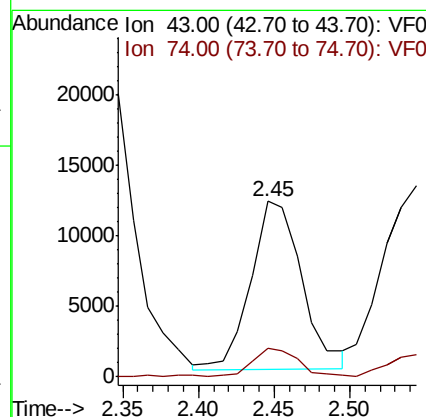
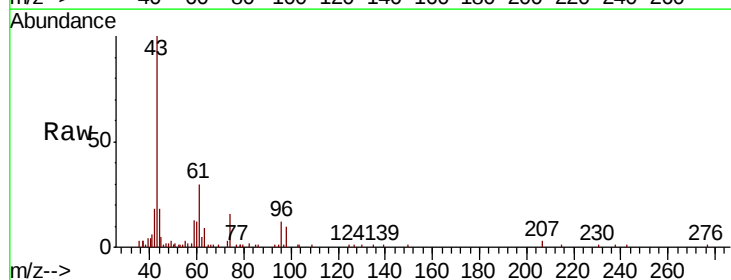
apatel

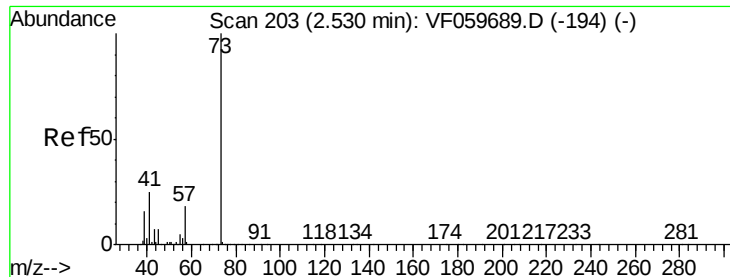
8/1/2018 4:29:25 PM



#18
Methyl Acetate
Concen: 33.093 ug/l
RT: 2.45 min Scan# 194
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
43	100		
74	16.3	11.8	17.6





#19
Methvl tert-butvl Ether
Concen: 22.521 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

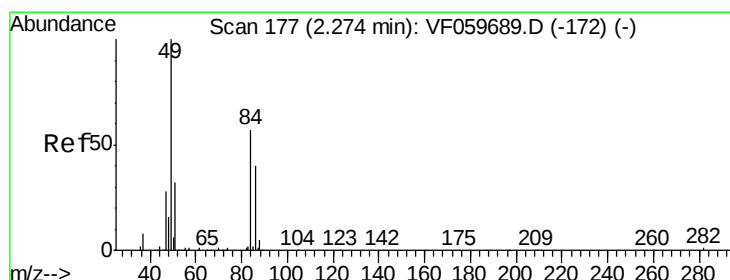
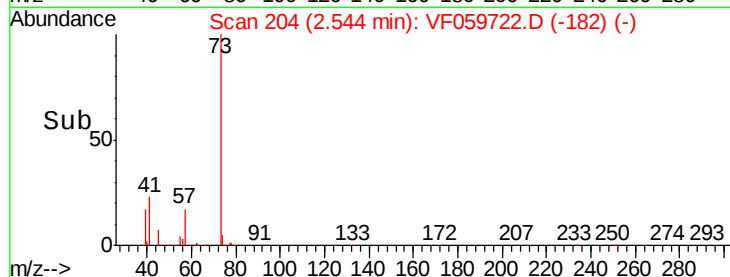
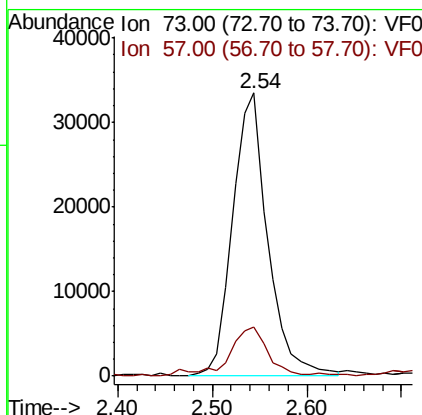
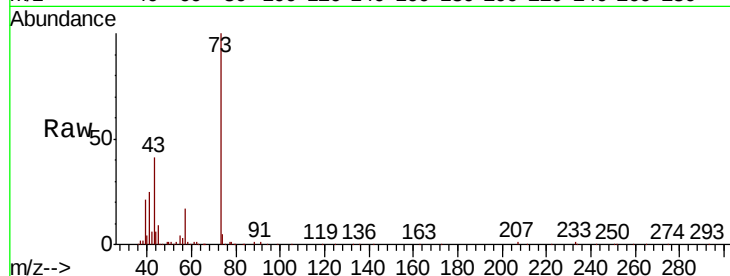
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	73	Resp	86248
Ion Ratio	100	Lower	Upper
73	100		
57	17.4	14.2	21.2

Manual Integrations
APPROVED

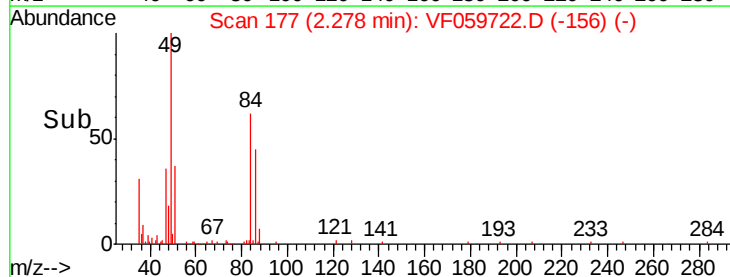
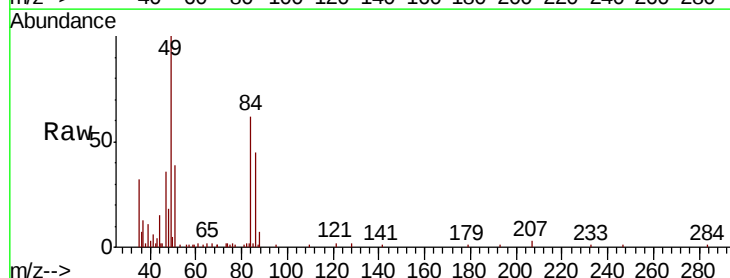
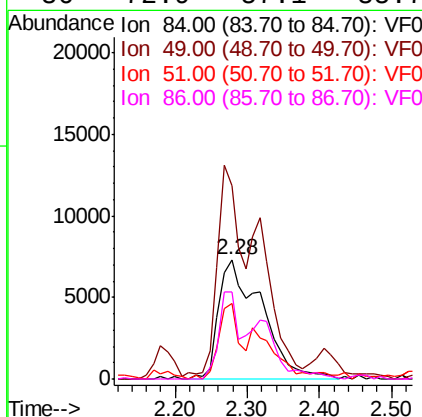
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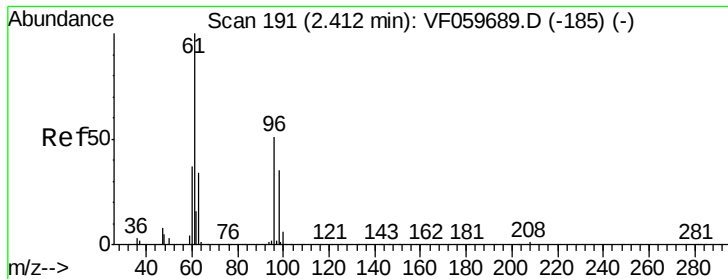
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#20
Methylene Chloride
Concen: 22.422 ug/l
RT: 2.28 min Scan# 177
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	84	Resp	30107
Ion Ratio	100	Lower	Upper
84	100		
49	162.1	142.2	213.4
51	63.4	46.2	69.2
86	72.9	57.1	85.7





#21

trans-1,2-Dichloroethene

Concen: 25.504 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

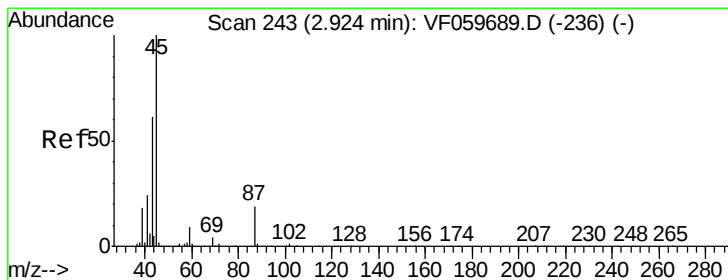
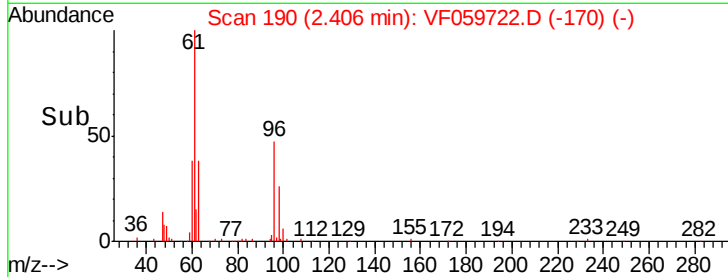
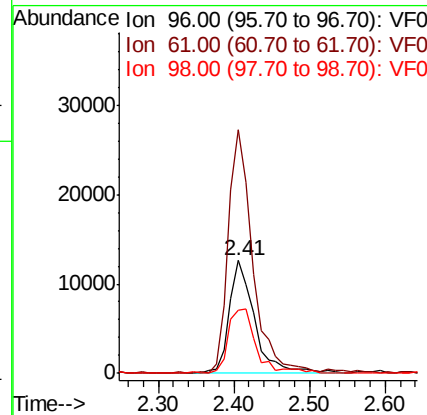
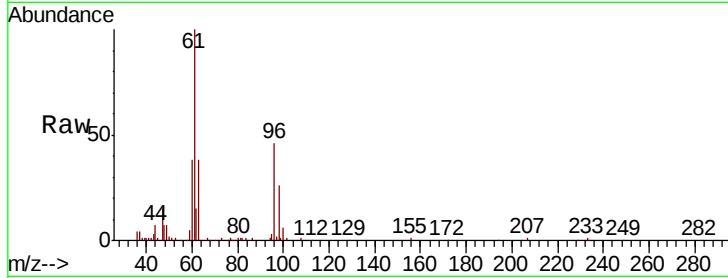
VF0731SBS02

Tot Ion:	96	Resp:	29410
Ion Ratio	Lower	Upper	
96	100		
61	207.9	157.4	236.0
98	55.7	55.0	82.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 22.639 ug/l

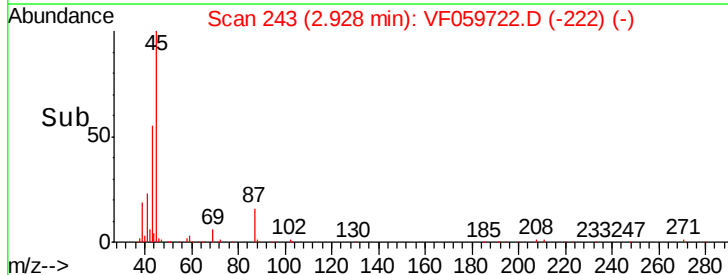
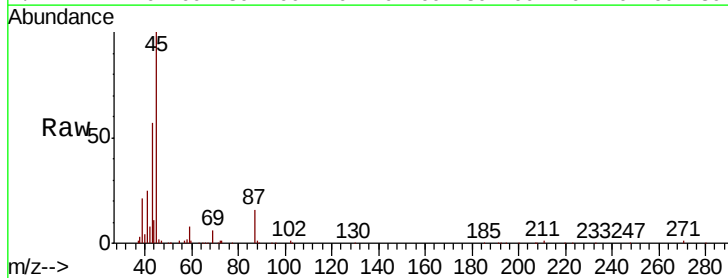
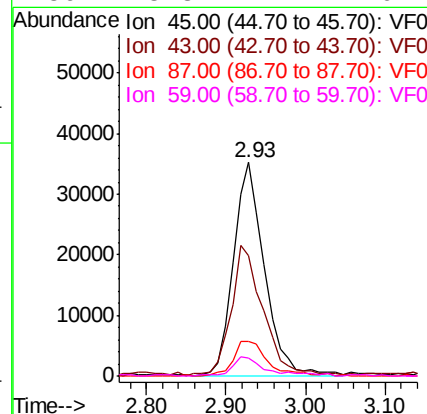
RT: 2.93 min Scan# 243

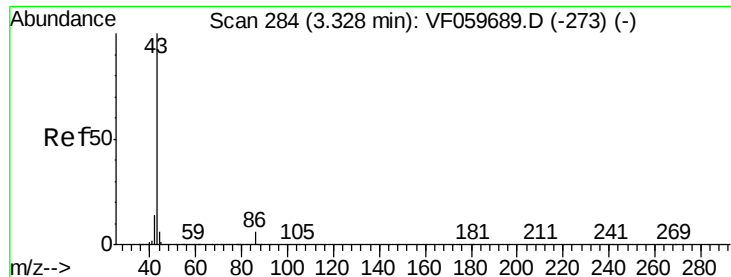
Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion:	45	Resp:	95991
Ion Ratio	Lower	Upper	
45	100		
43	56.5	49.3	73.9
87	16.2	15.3	22.9
59	8.3	7.1	10.7





#23

Vinyl Acetate

Concen: 101.629 ug/l

RT: 3.33 min Scan# 284

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion: 43 Resp: 221541

Ion Ratio Lower Upper

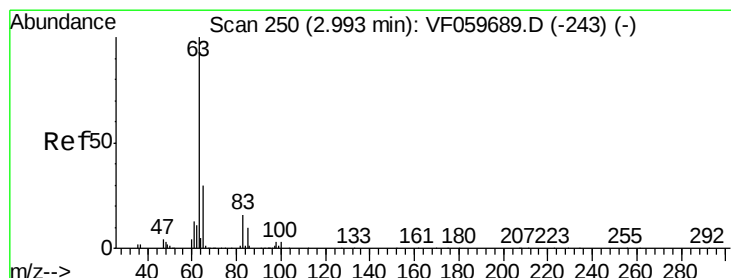
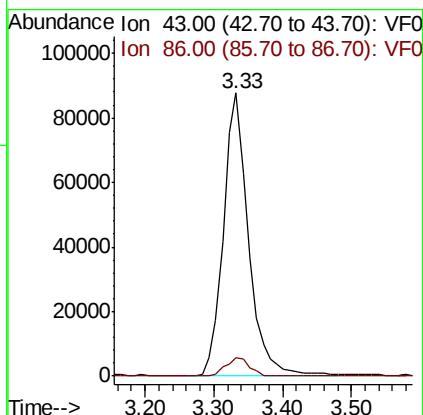
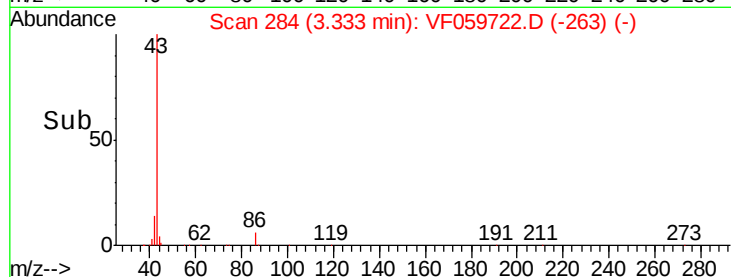
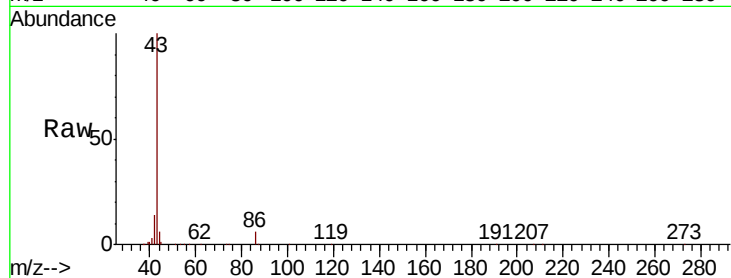
43 100

86 6.3 4.6 6.8

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 24.788 ug/l

RT: 3.00 min Scan# 250

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

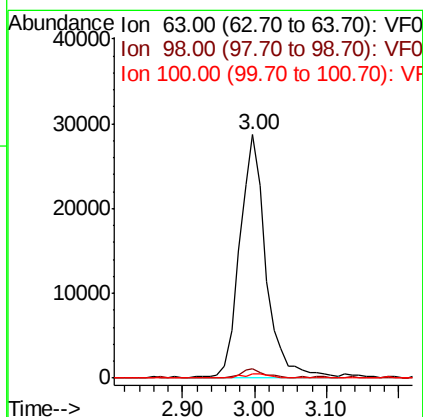
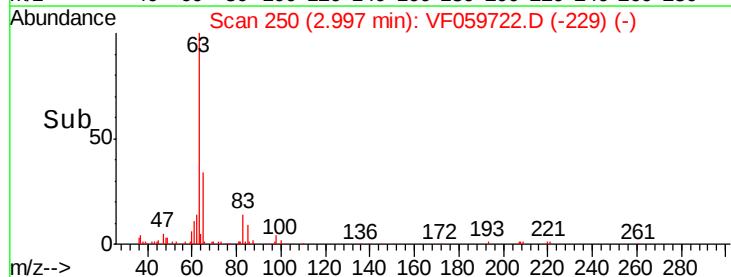
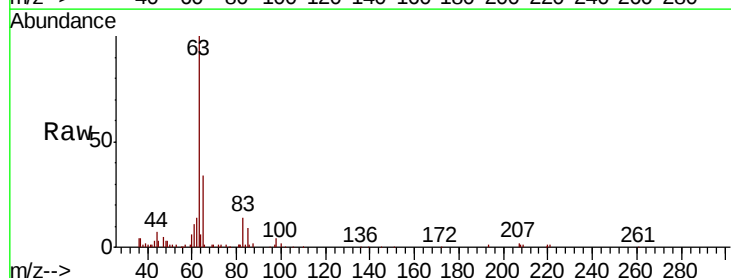
Tgt Ion: 63 Resp: 73021

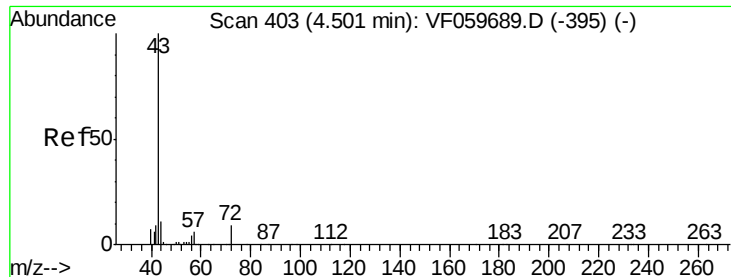
Ion Ratio Lower Upper

63 100

98 4.1 1.4 4.2

100 1.9 1.6 4.7





#25

2-Butanone

Concen: 97.738 ug/l

RT: 4.51 min Scan# 403

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion: 43 Resp: 57178

Ion Ratio Lower Upper

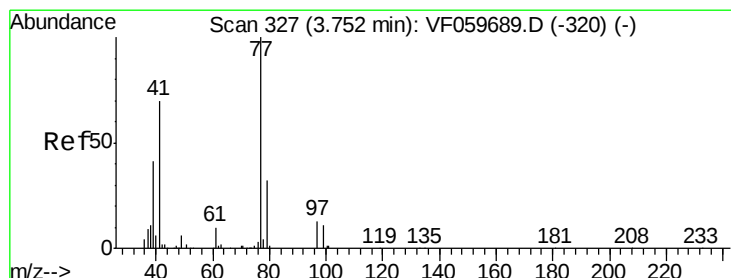
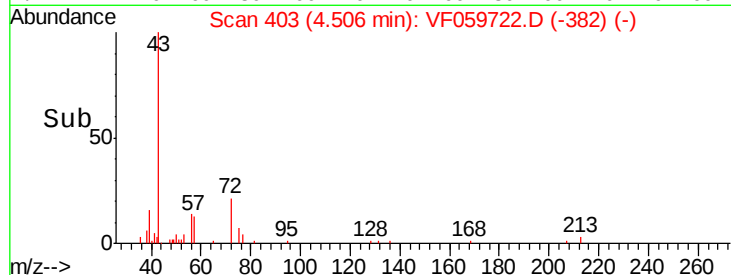
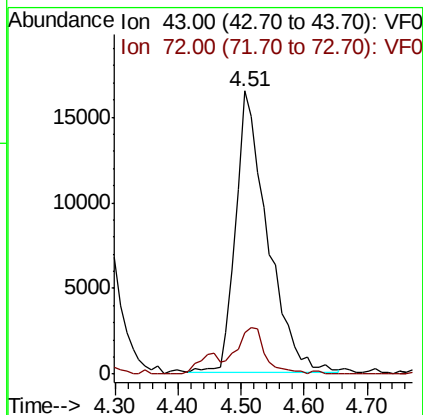
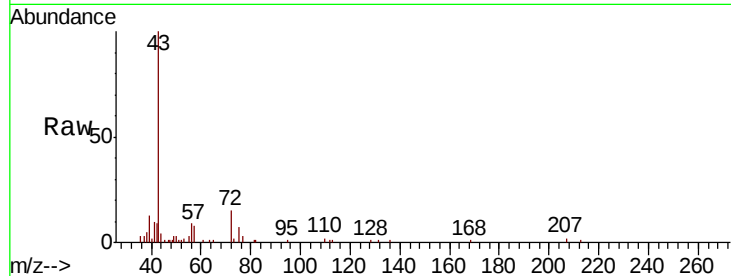
43 100

72 14.5 7.7 11.5#

Manual Integrations
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#26

2,2-Dichloropropane

Concen: 24.731 ug/l

RT: 3.76 min Scan# 327

Delta R.T. 0.00 min

Lab File: VF059722.D

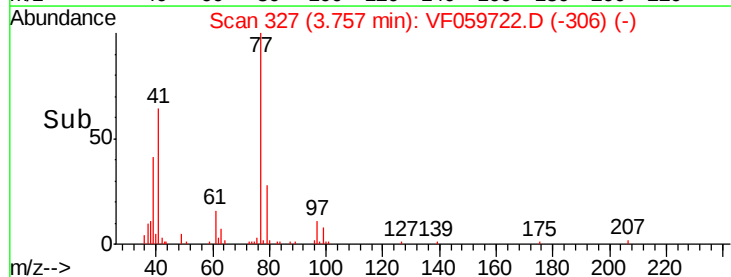
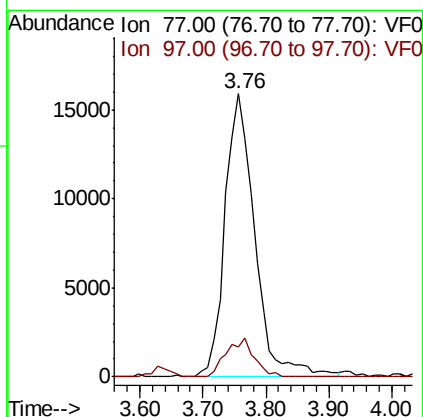
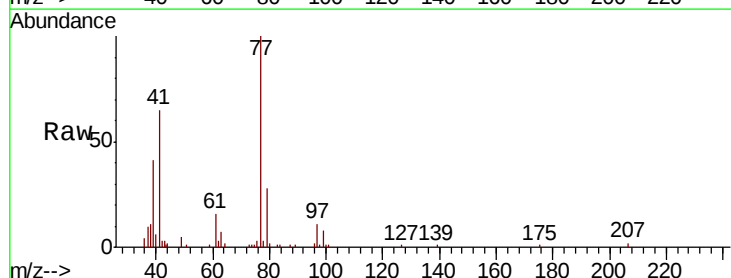
Acq: 31 Jul 2018 21:12

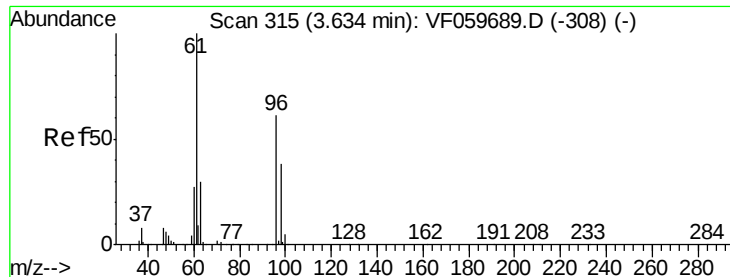
Tgt Ion: 77 Resp: 51934

Ion Ratio Lower Upper

77 100

97 10.6 6.8 20.4





#27

cis-1,2-Dichloroethene
Concen: 21.559 ug/l
RT: 3.63 min Scan# 314
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

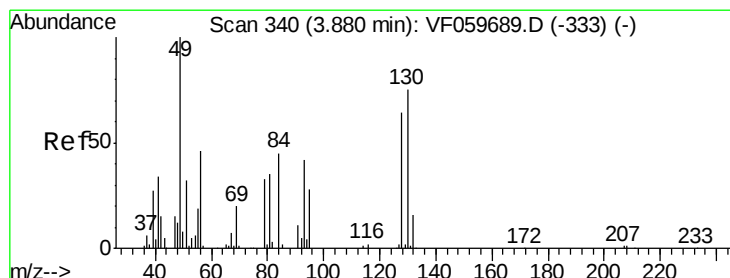
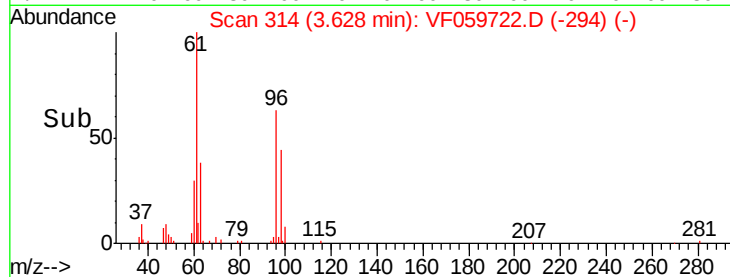
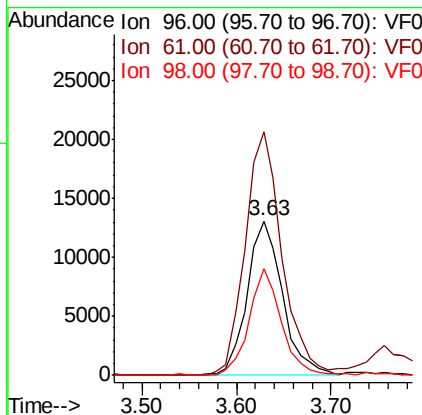
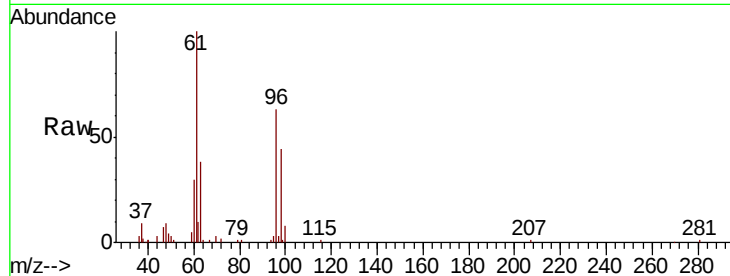
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	157.7	0.0	326.8
98	68.9	0.0	125.2

Manual Integrations
APPROVED

apatel

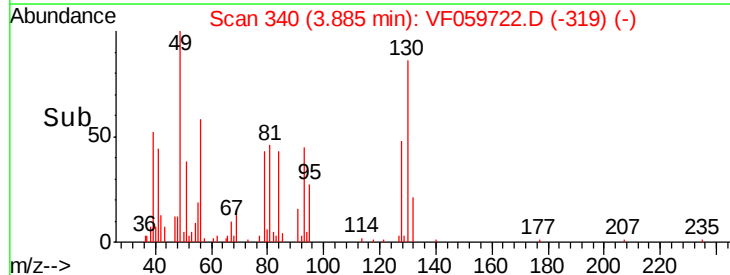
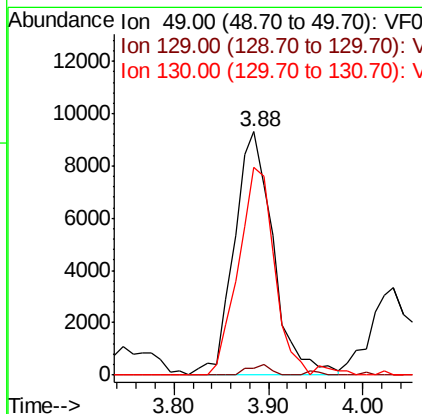
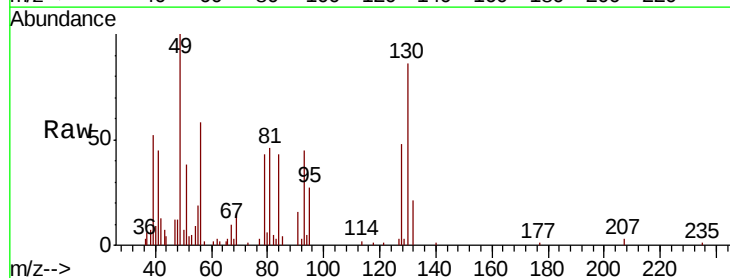
8/1/2018 4:29:25 PM

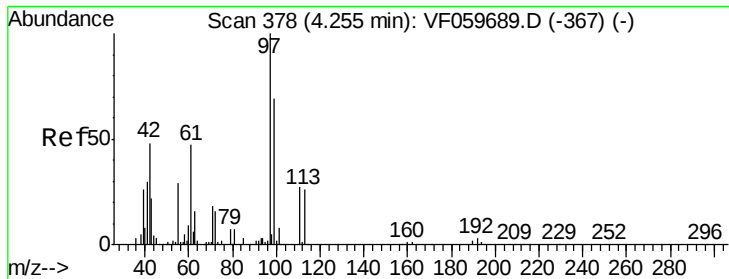


#28

Bromochloromethane
Concen: 23.560 ug/l
RT: 3.88 min Scan# 340
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.9	0.0	4.8
130	85.6	59.6	89.4





#29
Tetrahydrofuran
Concen: 103.378 ug/l
RT: 4.26 min Scan# 378
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

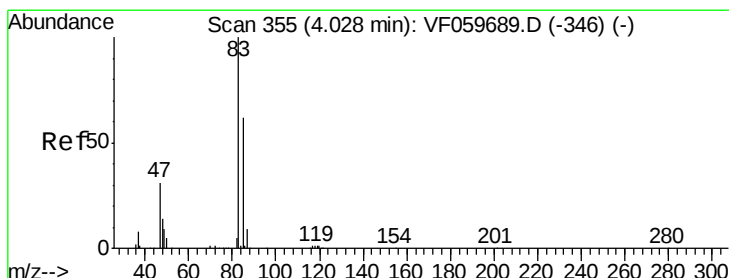
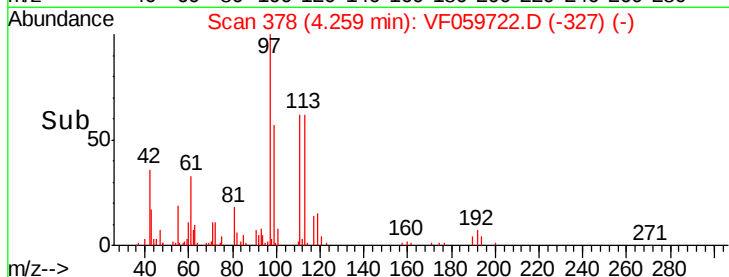
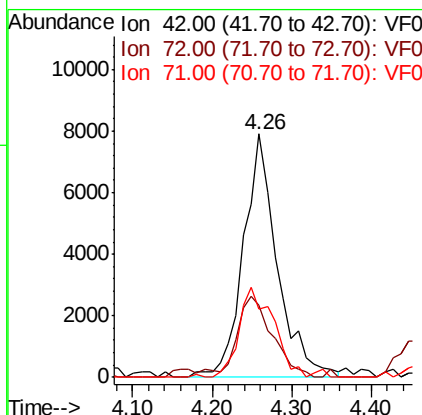
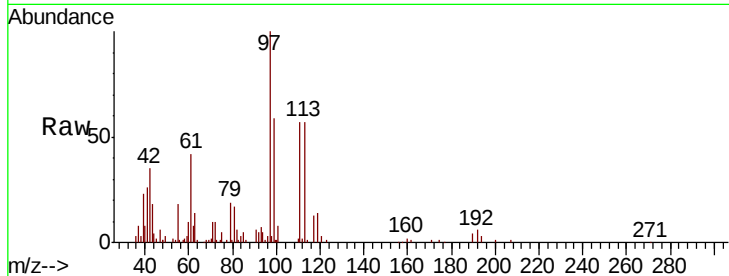
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.4	27.0	40.6
71	37.4	29.7	44.5

Manual Integrations
APPROVED

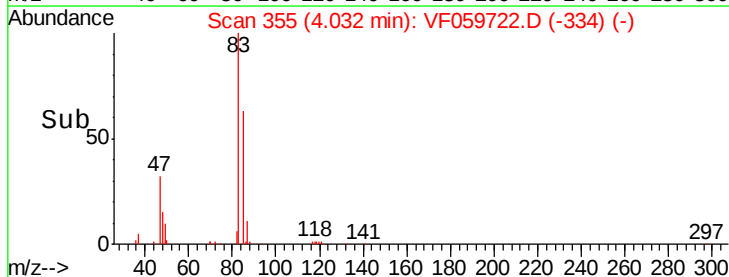
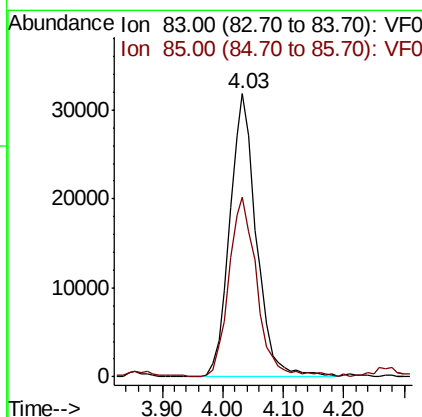
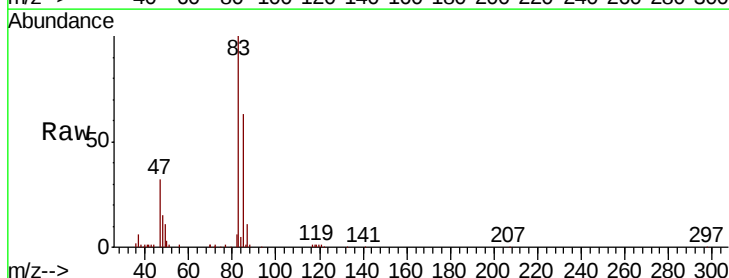
apatel

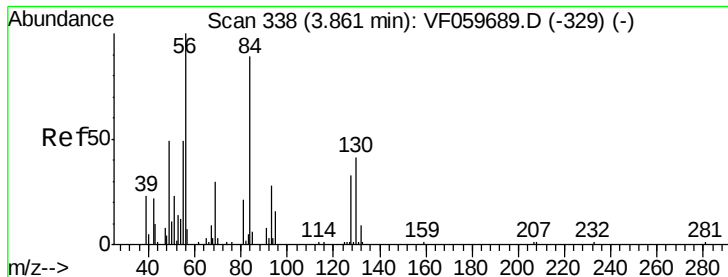
8/1/2018 4:29:25 PM



#30
Chloroform
Concen: 23.359 ug/l
RT: 4.03 min Scan# 355
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	49.4	74.0





#31
Cyclohexane
Concen: 21.243 ug/l
RT: 3.85 min Scan# 336
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

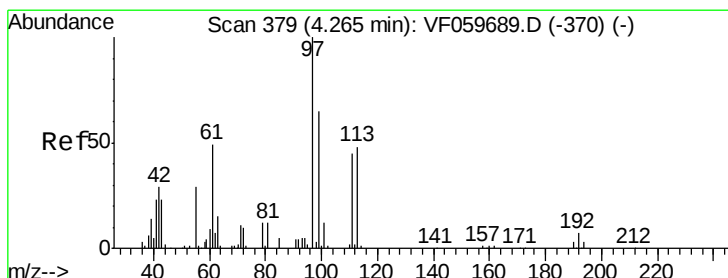
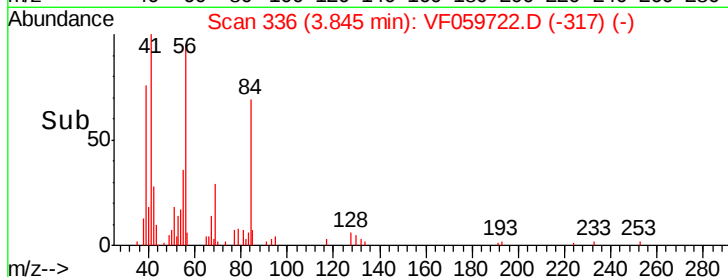
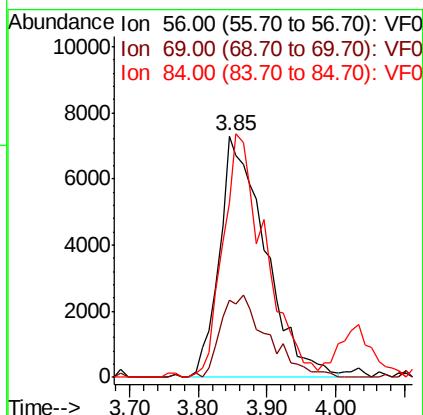
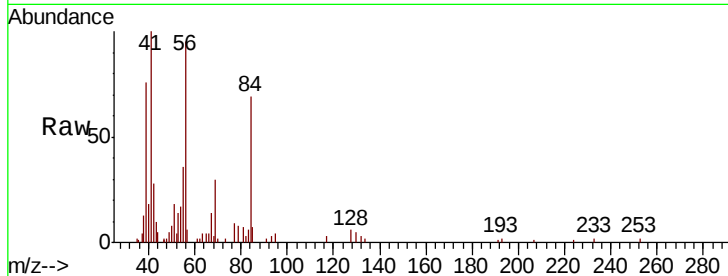
Instrument :
MSVOA_F
ClientSampled :
VF0731SBS02

Tot Ion	56	Resp	33714
Ion Ratio	Lower	Upper	
56	100		
69	31.8	23.7	35.5
84	72.1	71.1	106.7

Manual Integrations
APPROVED

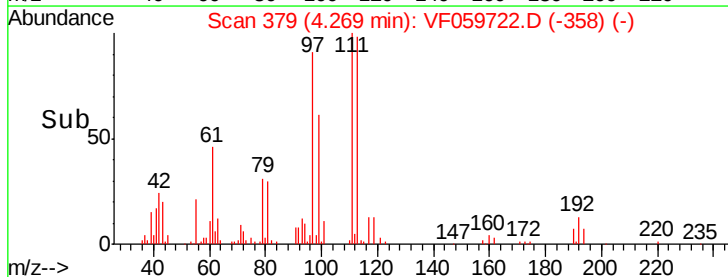
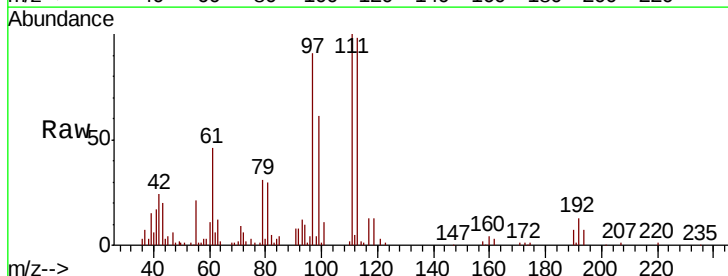
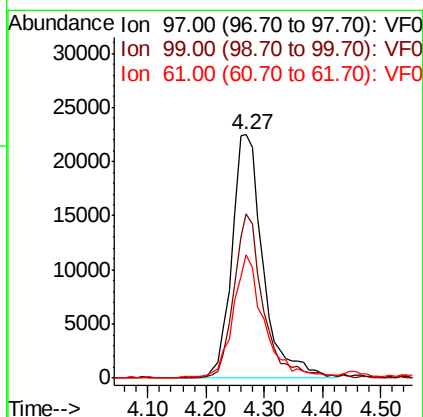
apatel

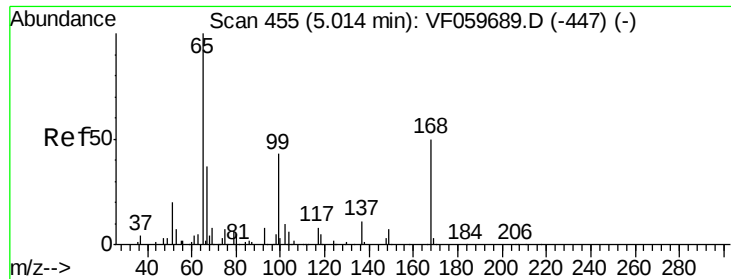
8/1/2018 4:29:25 PM



#32
1,1,1-Trichloroethane
Concen: 25.923 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	97	Resp	83597
Ion Ratio	Lower	Upper	
97	100		
99	68.5	52.4	78.6
61	50.5	39.7	59.5





#33

1,2-Dichloroethane-d4

Concen: 57.337 ug/l

RT: 5.02 min Scan# 455

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion: 65 Resp: 167100

Ion Ratio Lower Upper

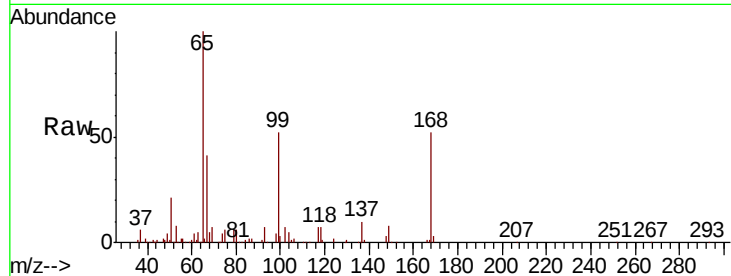
65 100

67 40.9 0.0 84.6

Manual Integrations
APPROVED

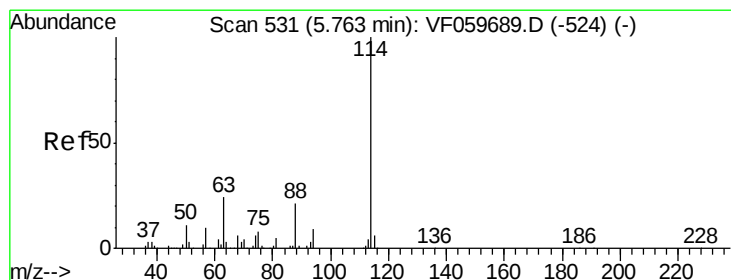
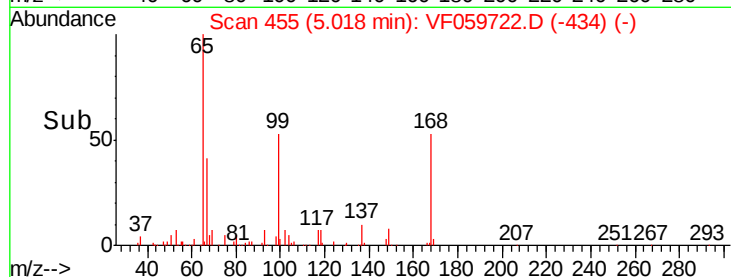
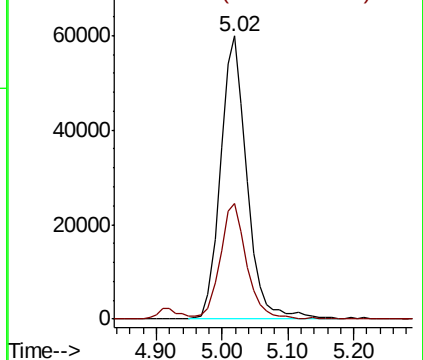
apatel

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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

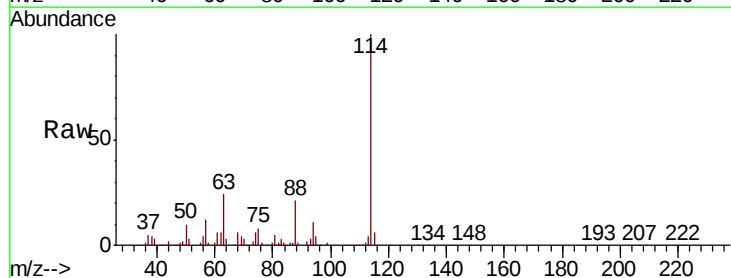
Tgt Ion: 114 Resp: 226356

Ion Ratio Lower Upper

114 100

63 24.3 0.0 47.4

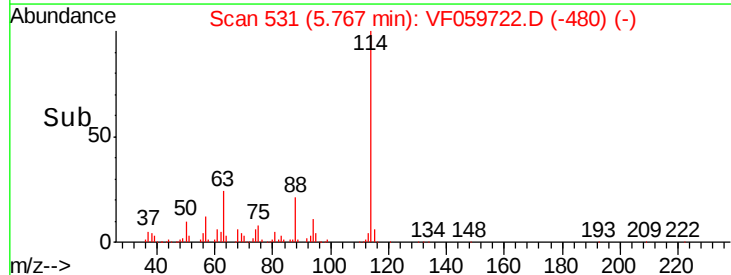
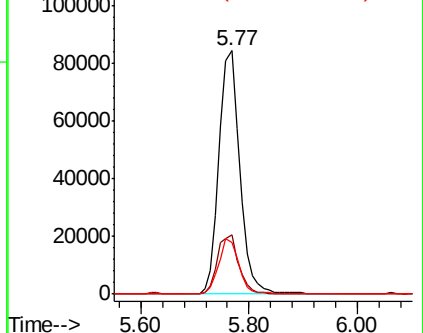
88 21.0 0.0 41.2

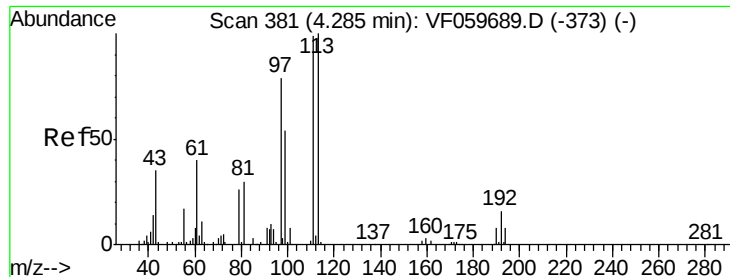


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35
 Dibromofluoromethane
 Concen: 52.896 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

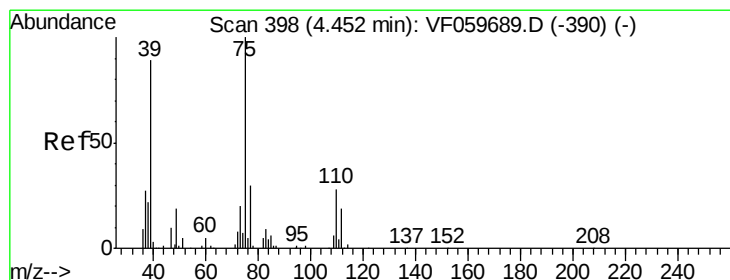
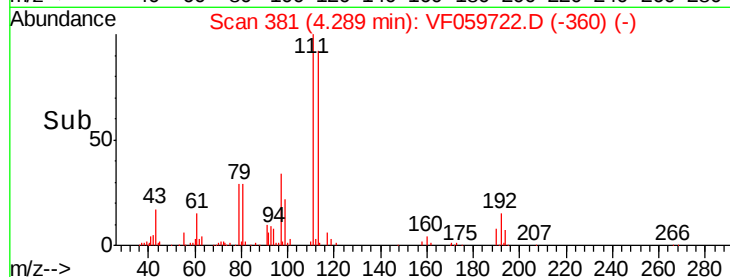
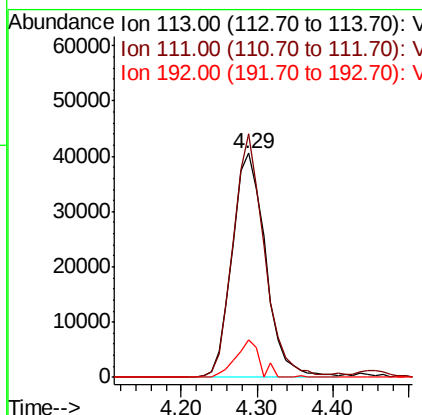
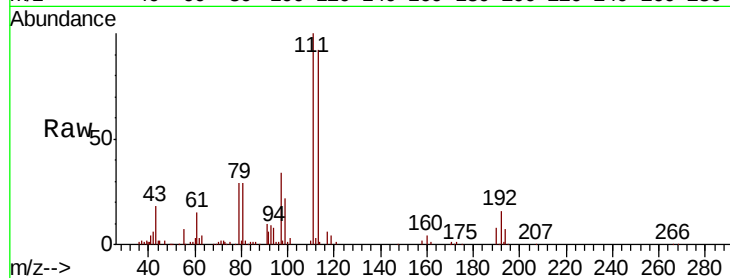
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS02

Tot Ion	Ratio	Lower	Upper
113	100		
111	108.6	79.0	118.4
192	16.9	13.2	19.8

Manual Integrations
 APPROVED

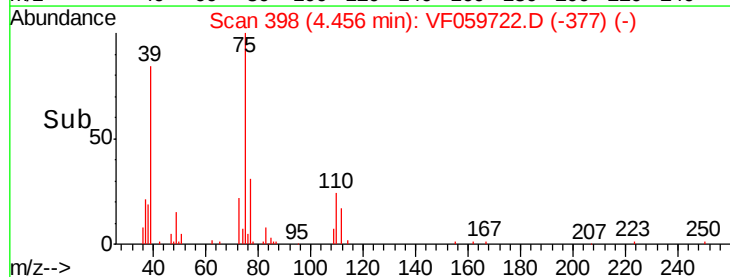
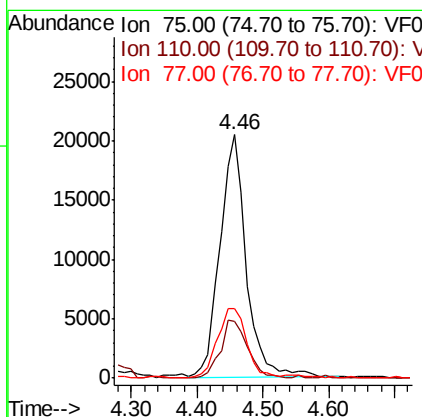
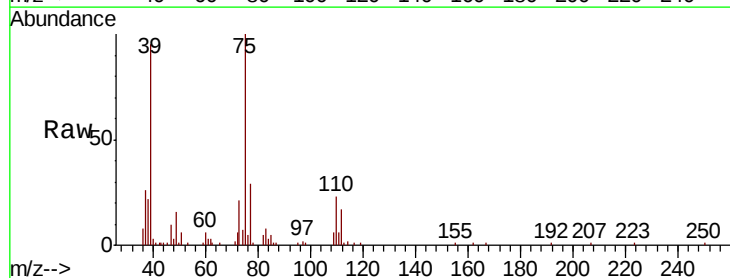
apatel

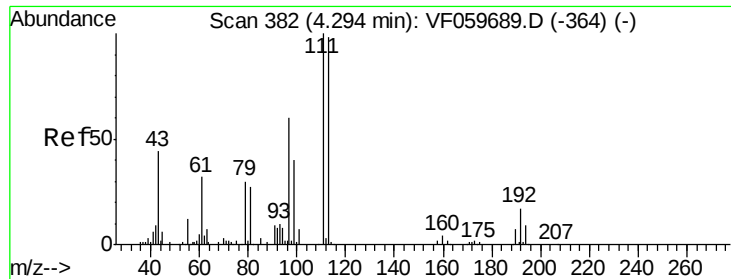
8/1/2018 4:29:25 PM



#36
 1,1-Dichloropropene
 Concen: 22.906 ug/l
 RT: 4.46 min Scan# 398
 Delta R.T. 0.00 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	23.2	14.0	41.9
77	28.5	24.2	36.2





#37
Ethyl Acetate
Concen: 20.982 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

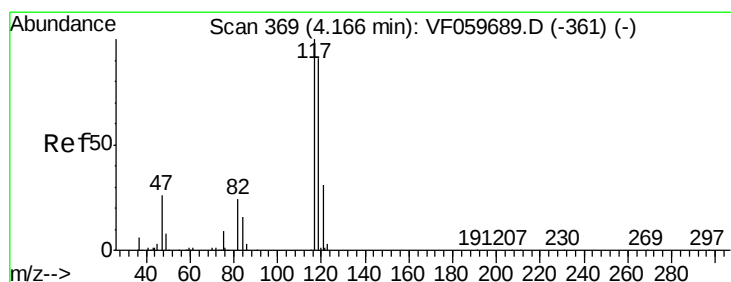
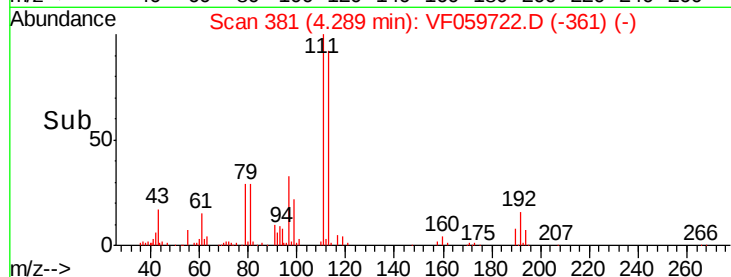
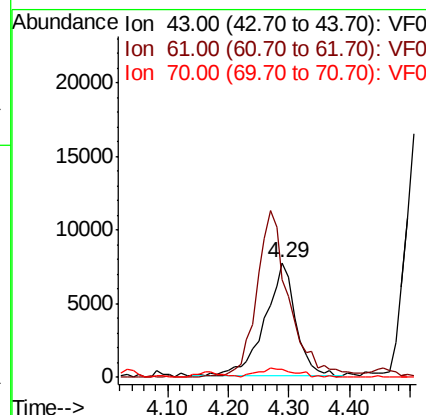
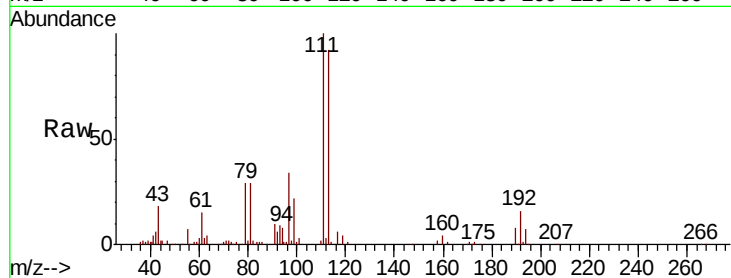
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	84.6	58.2	87.2
70	7.6	6.0	9.0

Manual Integrations
APPROVED

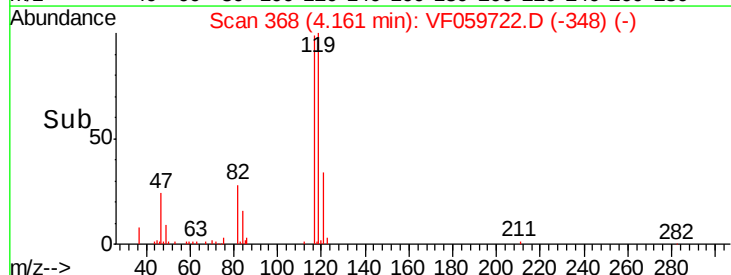
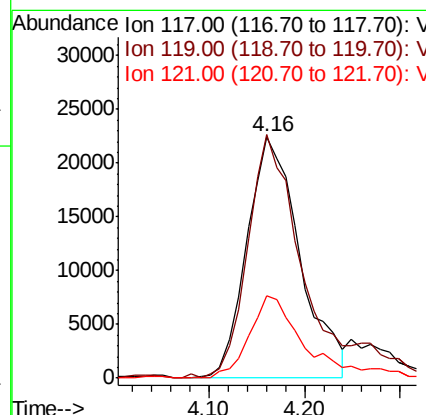
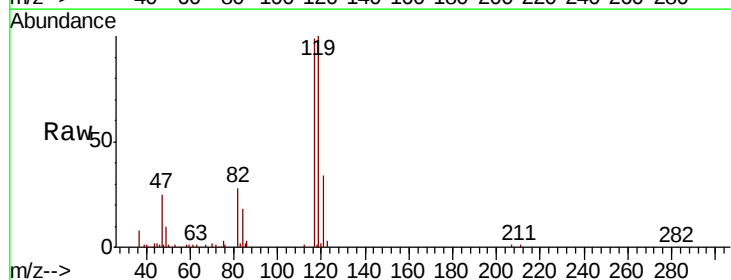
apatel

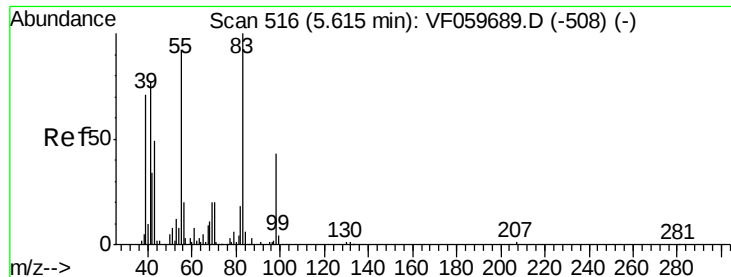
8/1/2018 4:29:25 PM



#38
Carbon Tetrachloride
Concen: 24.133 ug/l m
RT: 4.16 min Scan# 368
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.9	72.9	109.3
121	34.3	25.0	37.4





#39
Methvlcvclohexane
Concen: 22.198 ug/l
RT: 5.62 min Scan# 516
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

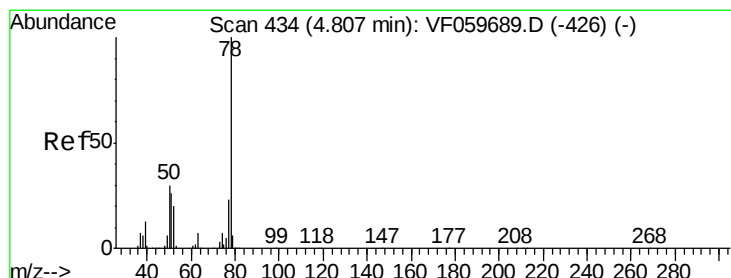
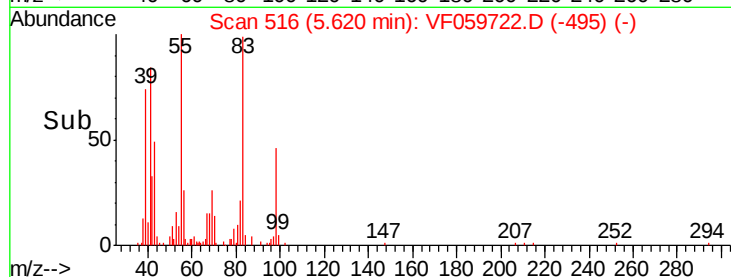
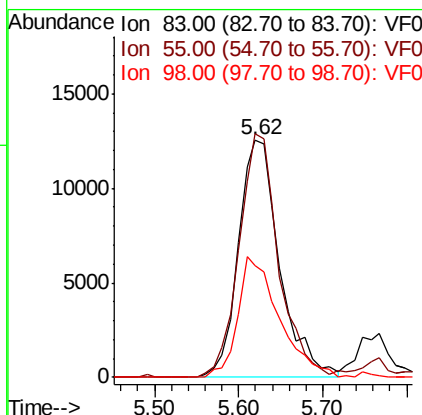
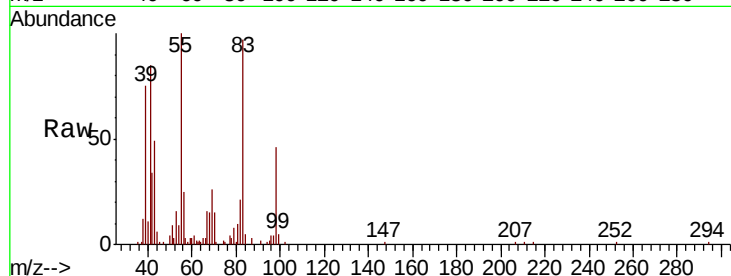
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	102.6	73.4	110.2
98	47.0	34.2	51.4

Manual Integrations
APPROVED

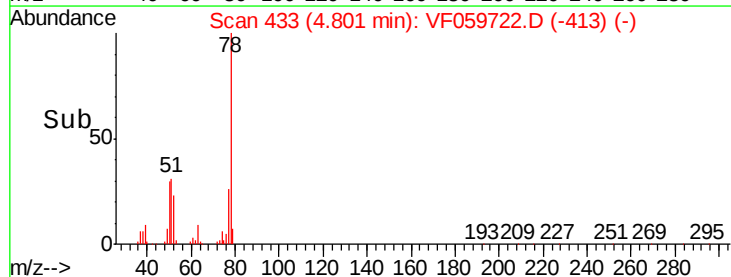
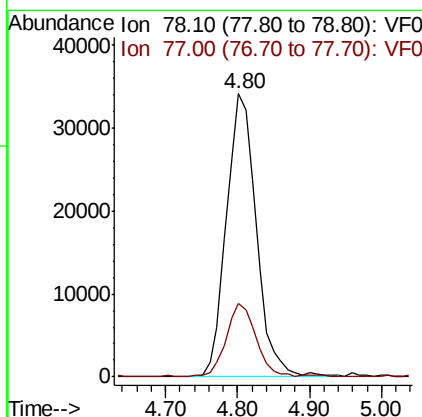
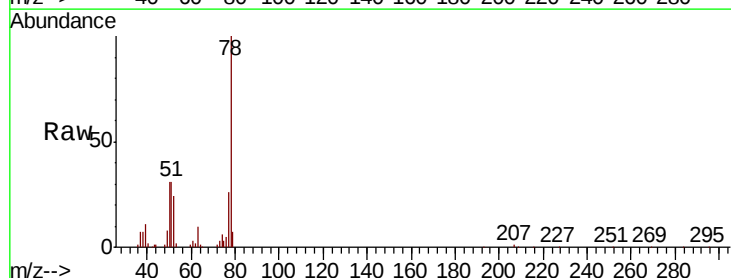
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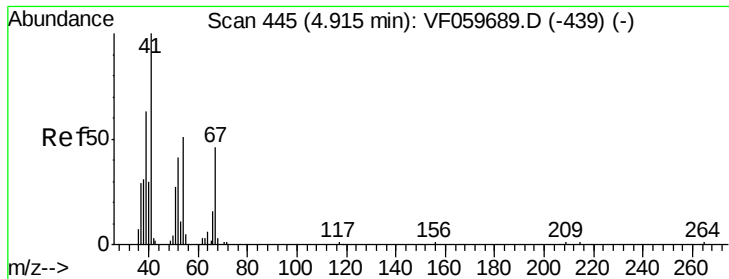
8/1/2018 4:29:25 PM



#40
Benzene
Concen: 21.672 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.1	18.9	28.3





#41
Methacrylonitrile
Concen: 20.962 ug/l
RT: 4.92 min Scan# 445
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

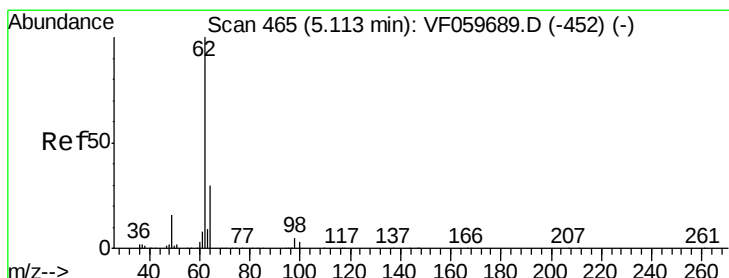
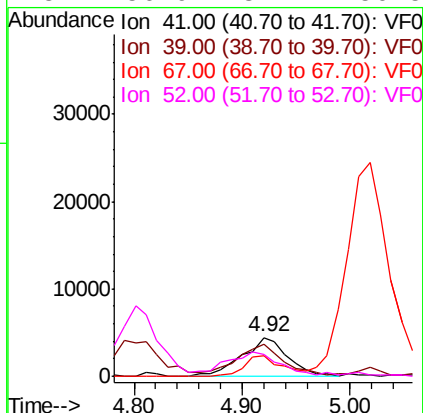
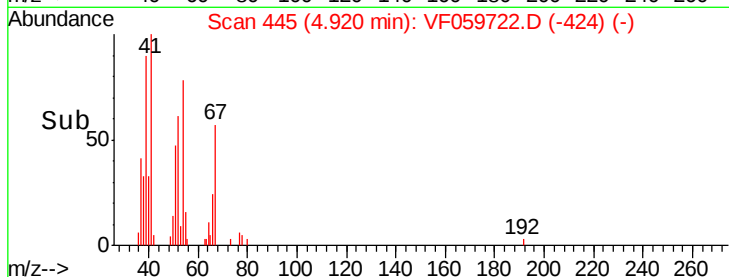
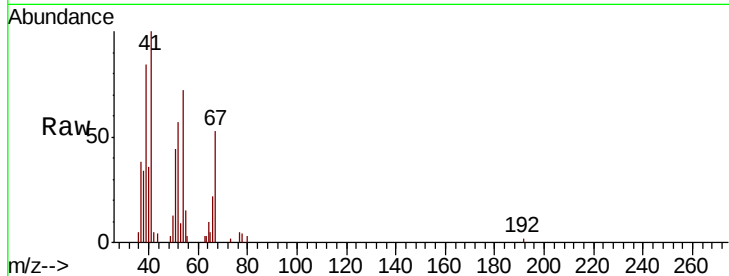
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
41	100		
39	84.0	55.2	82.8#
67	53.3	36.2	54.2
52	56.9	37.7	56.5#

Manual Integrations
APPROVED

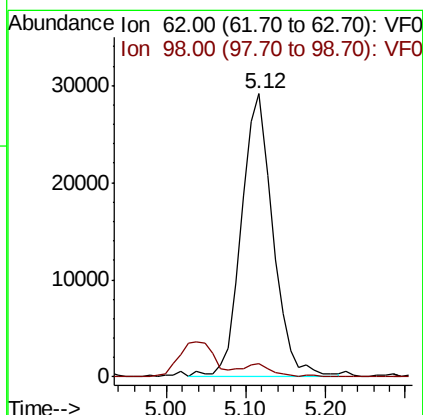
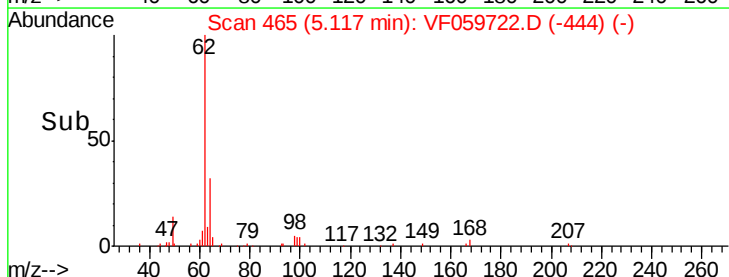
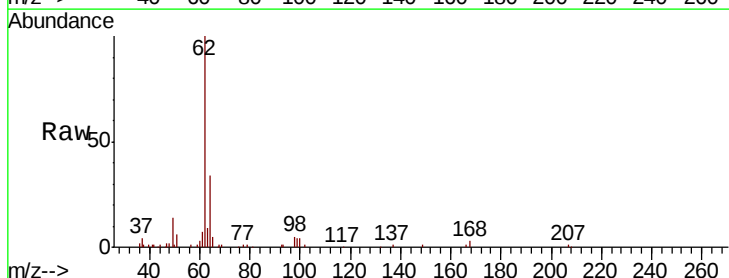
apatel

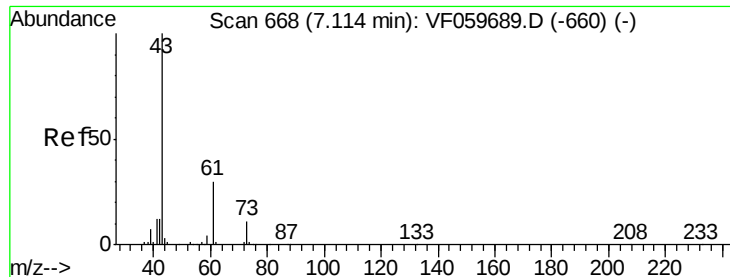
8/1/2018 4:29:25 PM



#42
1,2-Dichloroethane
Concen: 24.947 ug/l
RT: 5.12 min Scan# 465
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.6	0.0	9.6





#43

Isopropyl Acetate
 Concen: 18.360 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

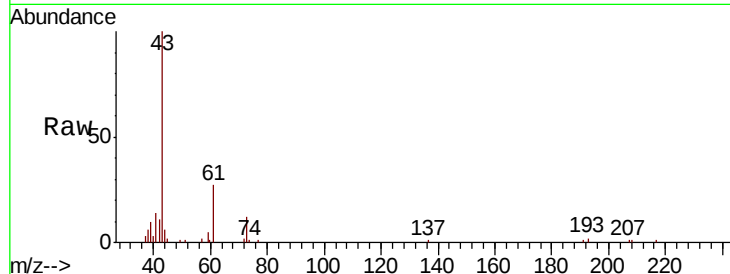
Instrument :
 MSVOA_F
 ClientSampled :
 VF0731SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.8	23.8	35.8
87	0.0	0.6	1.0

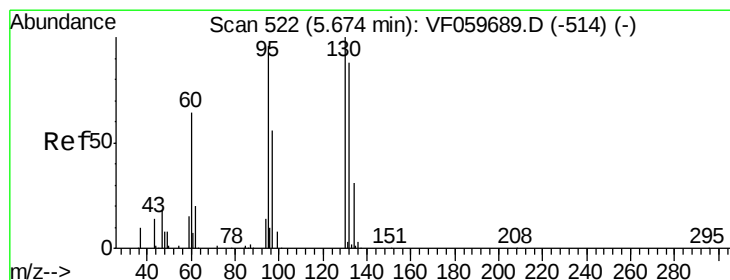
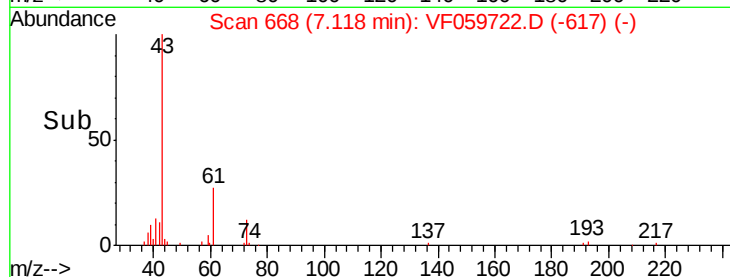
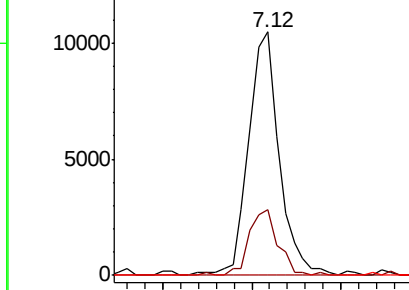
Manual Integrations
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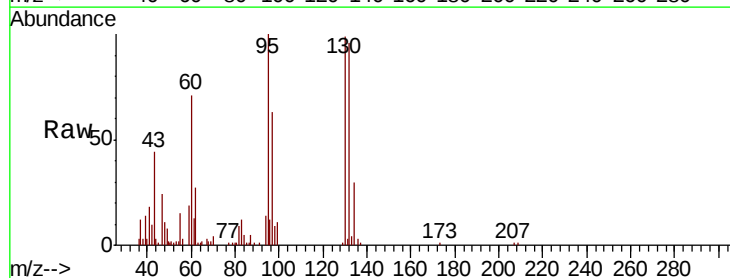
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



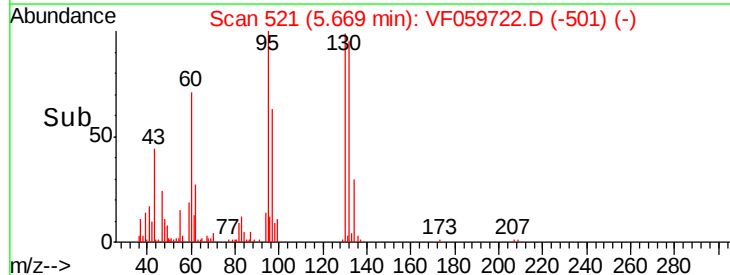
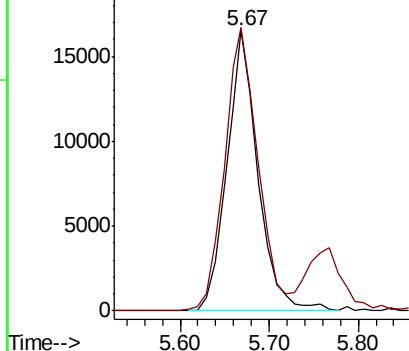
#44

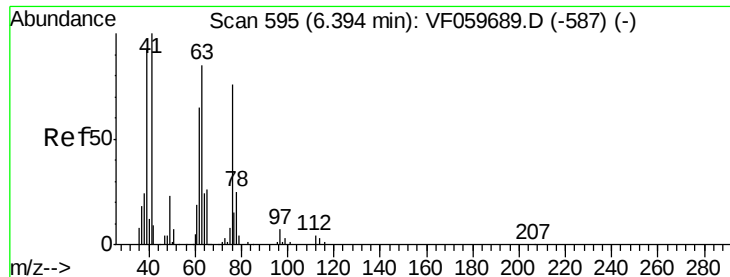
Trichloroethene
 Concen: 23.244 ug/l
 RT: 5.67 min Scan# 521
 Delta R.T. -0.01 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	191.0



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





#45

1,2-Dichloropropane

Concen: 22.495 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion: 63 Resp: 27156

Ion Ratio Lower Upper

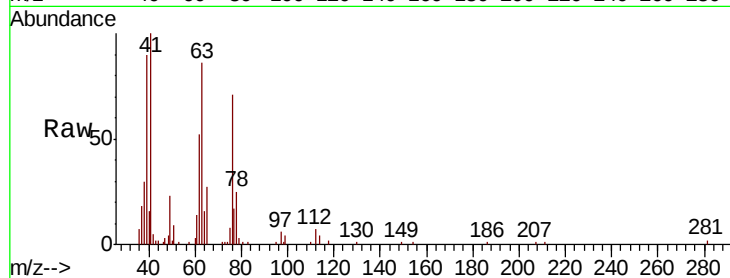
63 100

65 31.5 25.2 37.8

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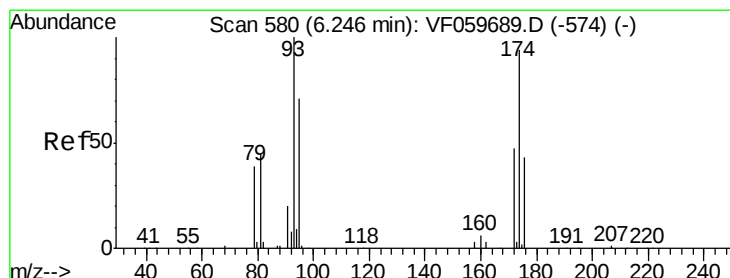
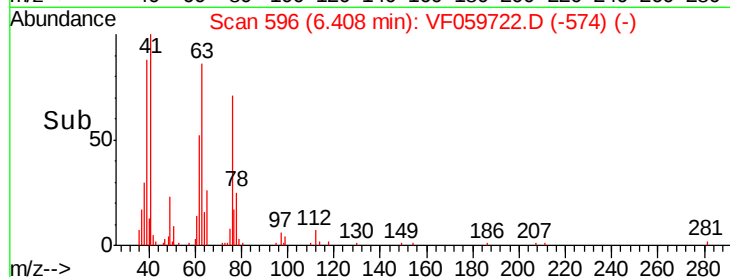
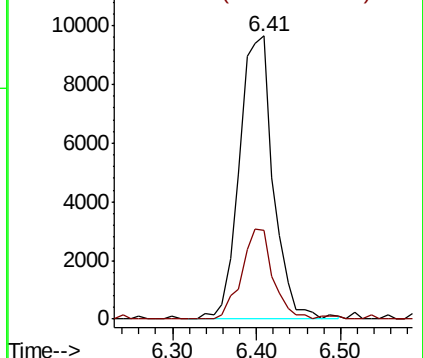
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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 24.360 ug/l

RT: 6.25 min Scan# 580

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

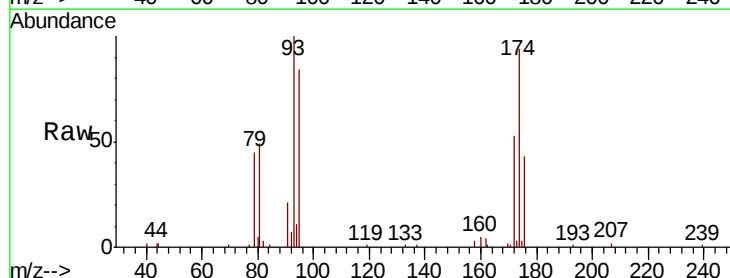
Tgt Ion: 93 Resp: 27919

Ion Ratio Lower Upper

93 100

95 83.7 57.1 85.7

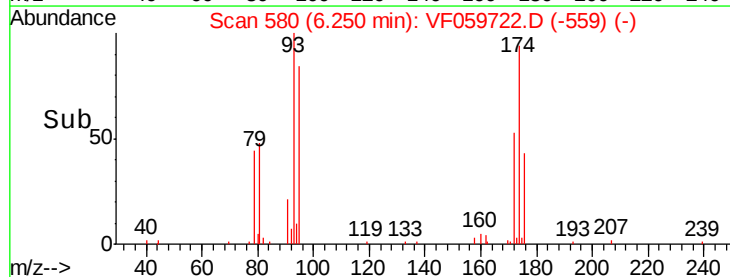
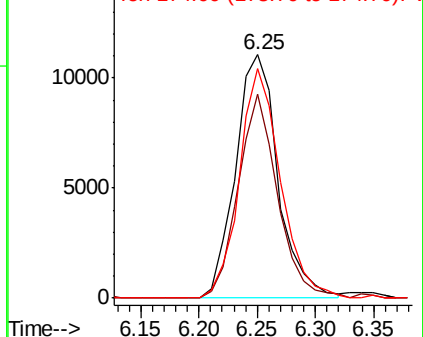
174 94.4 74.8 112.2

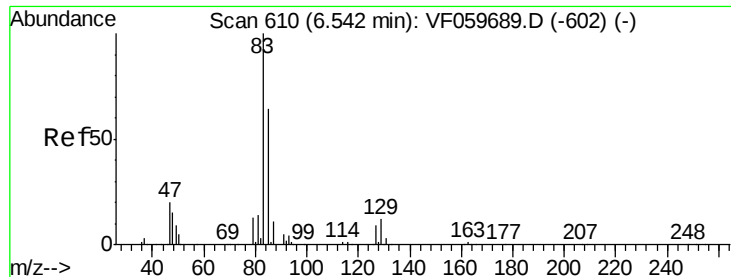


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 24.418 ug/l

RT: 6.55 min Scan# 610

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

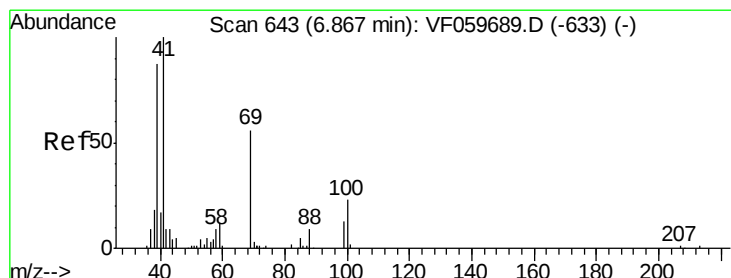
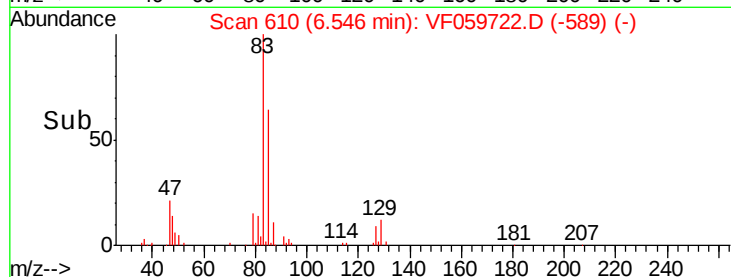
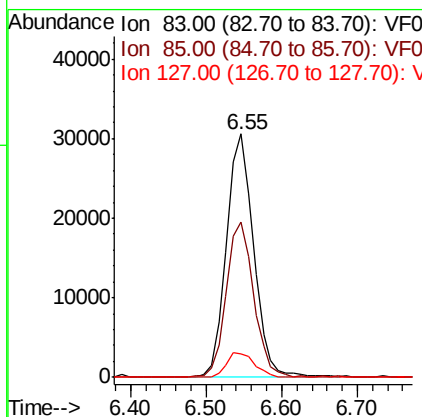
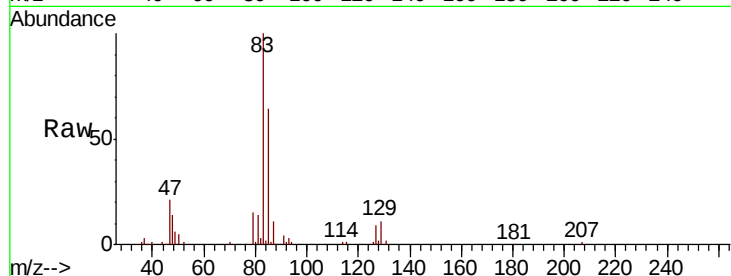
VF0731SBS02

Tot Ion:	83	Resp:	76212
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.0	76.6
127	9.4	7.3	10.9

Manual Integrations
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#48

Methyl methacrylate

Concen: 17.838 ug/l

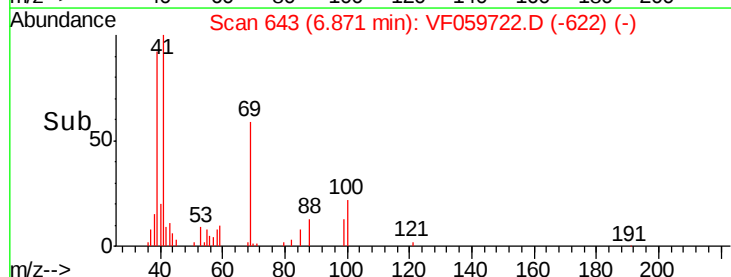
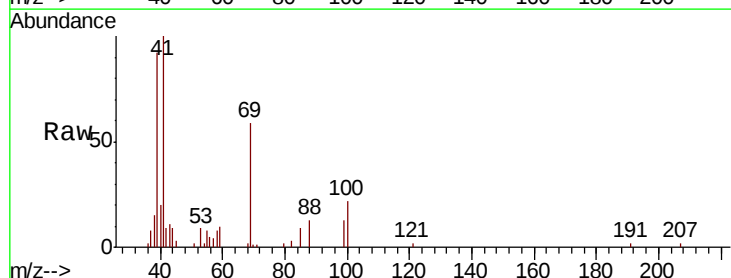
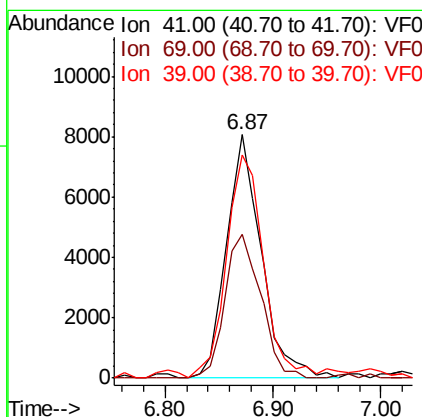
RT: 6.87 min Scan# 643

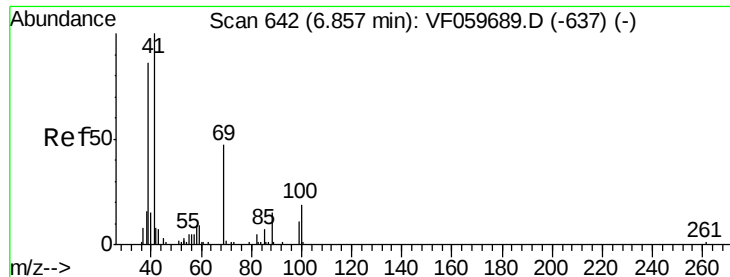
Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion:	41	Resp:	18160
Ion	Ratio	Lower	Upper
41	100		
69	59.2	44.4	66.6
39	91.7	69.4	104.2





#49
1,4-Dioxane
Concen: 410.236 ug/l
RT: 6.86 min Scan# 642
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

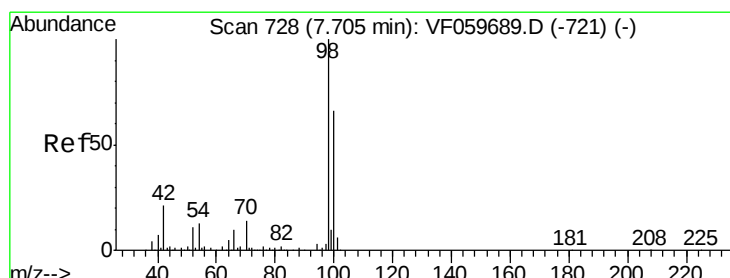
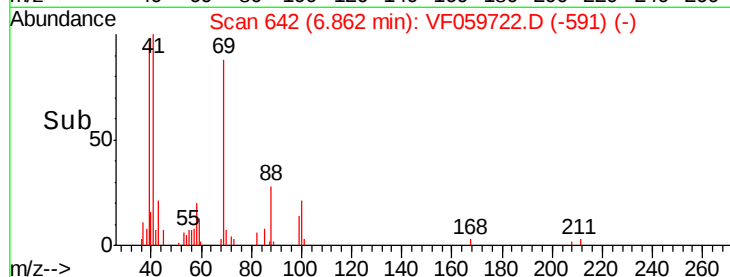
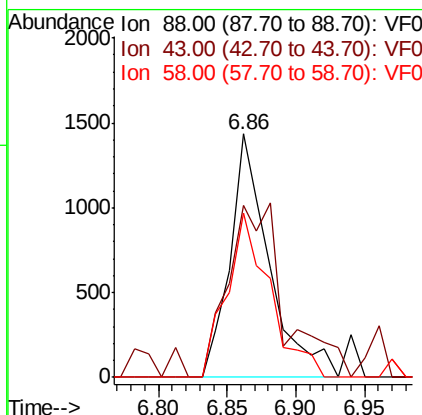
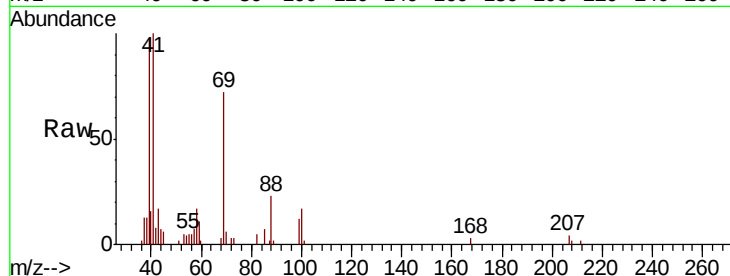
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	70.5	45.2	67.8#
58	67.6	49.0	73.6

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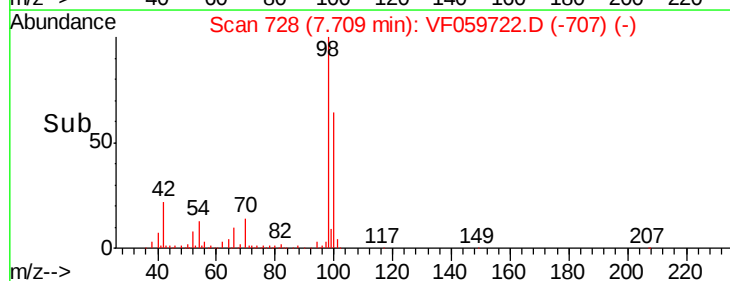
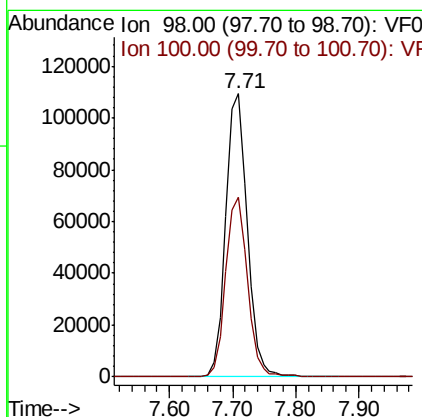
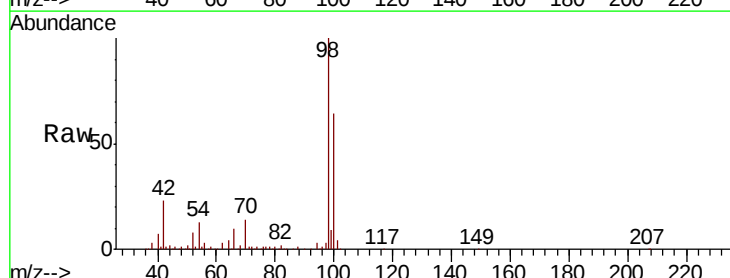
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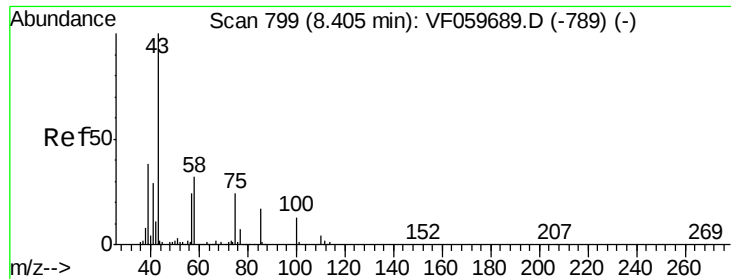
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#50
Toluene-d8
Concen: 47.324 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.8	79.2





#51

4-Methyl-2-Pentanone

Concen: 109.278 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion: 43 Resp: 112514

Ion Ratio Lower Upper

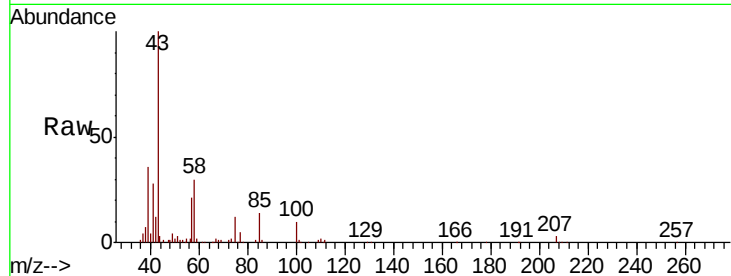
43 100

58 30.1 25.9 38.9

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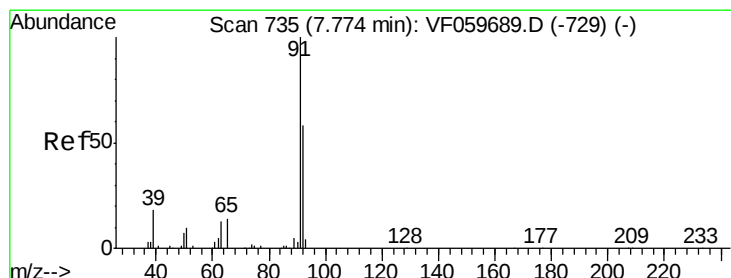
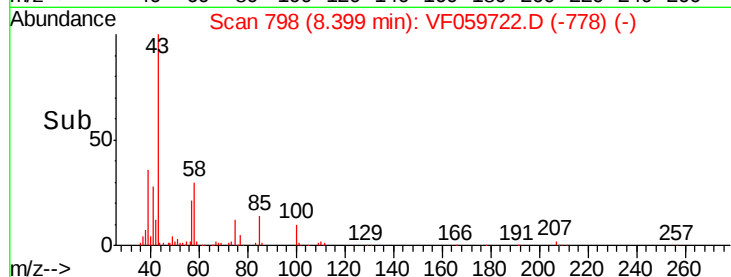
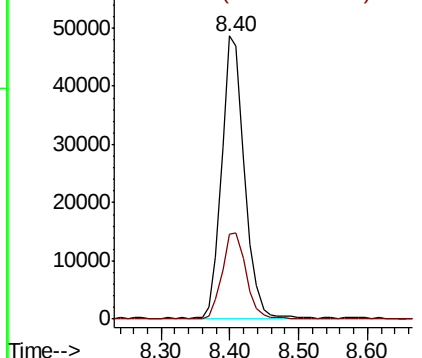
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.700 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059722.D

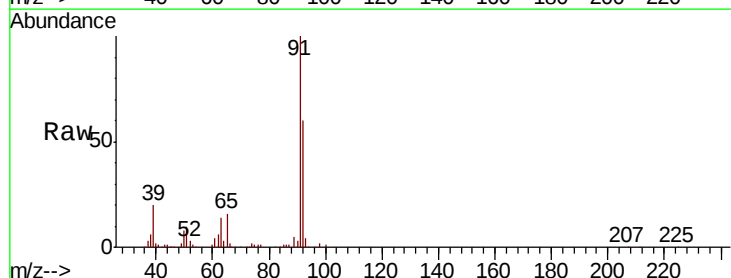
Acq: 31 Jul 2018 21:12

Tgt Ion: 92 Resp: 73465

Ion Ratio Lower Upper

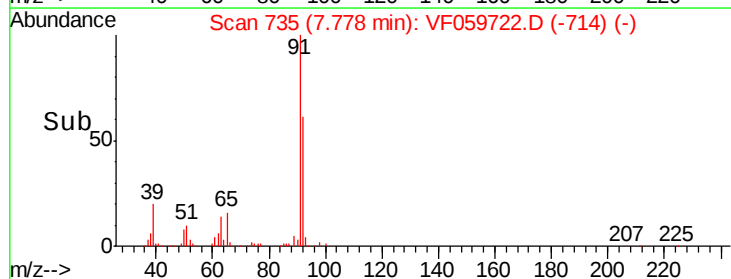
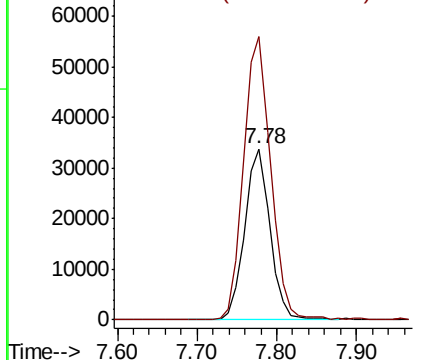
92 100

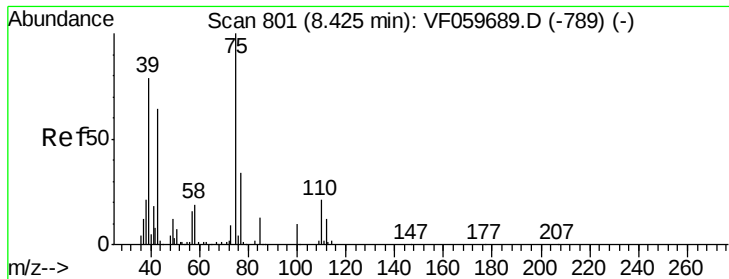
91 165.4 139.0 208.4



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: 22.429 ug/l
 RT: 8.42 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

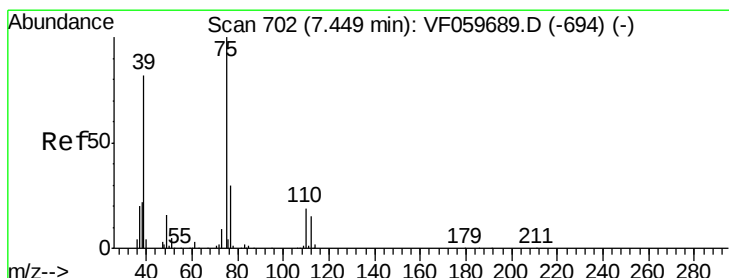
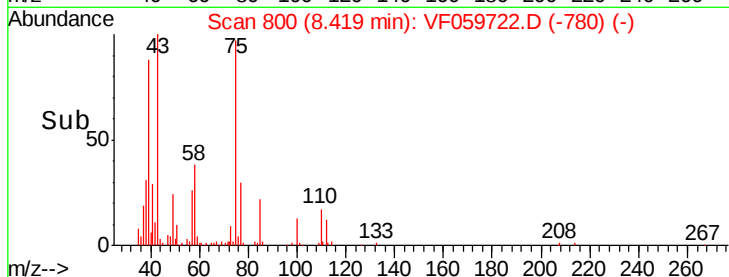
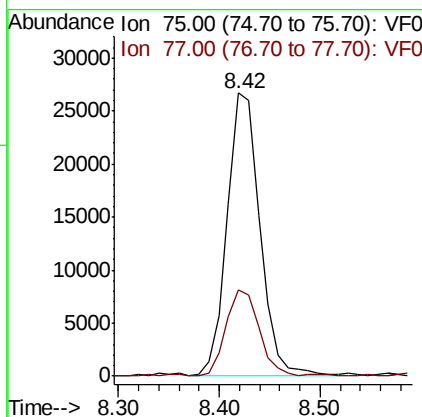
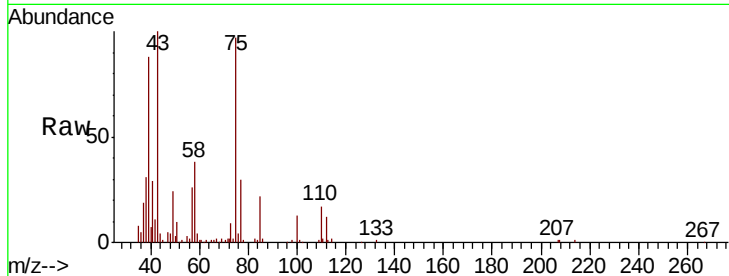
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS02

Tot Ion: 75 Resp: 60743
 Ion Ratio Lower Upper
 75 100
 77 30.5 27.0 40.4

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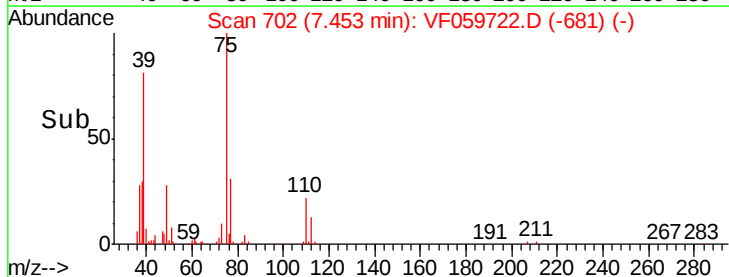
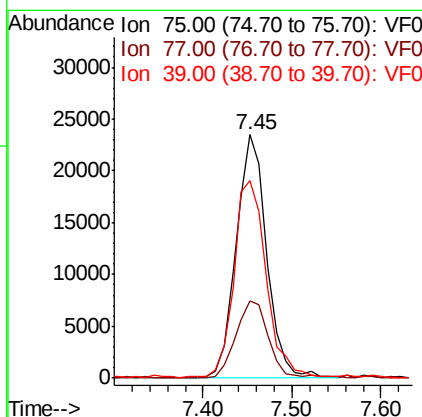
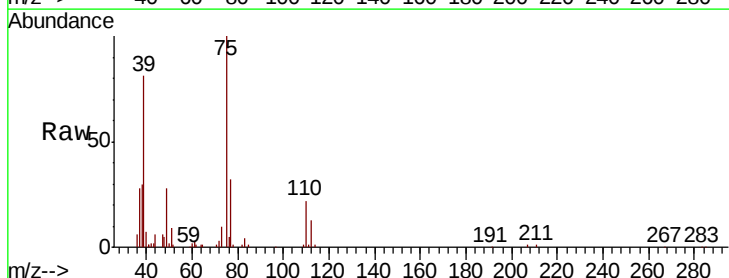
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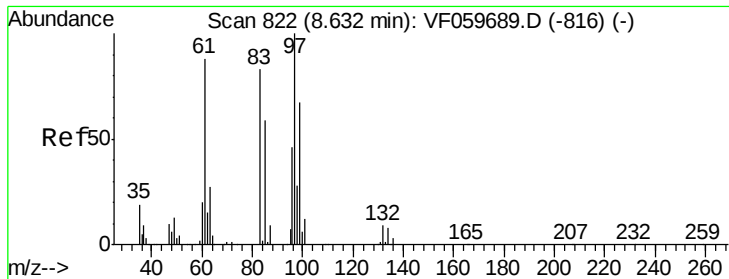
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#54
 cis-1,3-Dichloropropene
 Concen: 21.351 ug/l
 RT: 7.45 min Scan# 702
 Delta R.T. 0.00 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

Tgt Ion: 75 Resp: 56008
 Ion Ratio Lower Upper
 75 100
 77 31.8 24.0 36.0
 39 81.3 65.4 98.2





#55

1,1,2-Trichloroethane

Concen: 21.674 ug/l

RT: 8.64 min Scan# 822

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

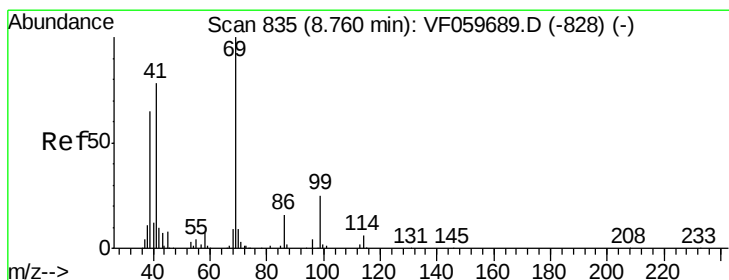
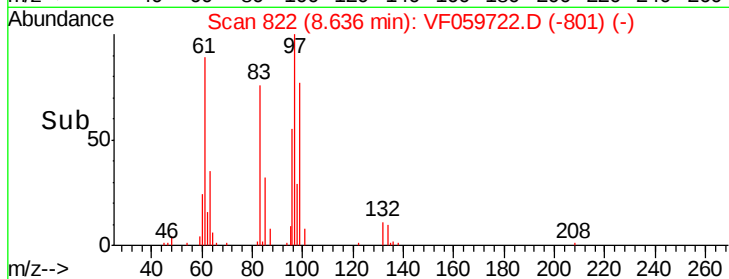
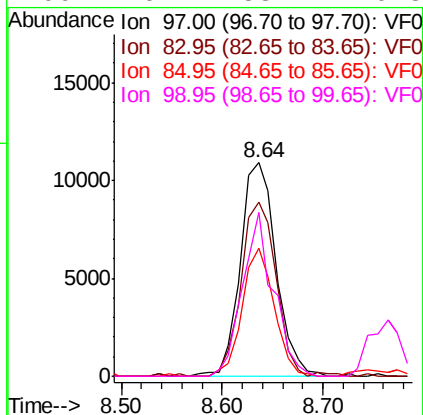
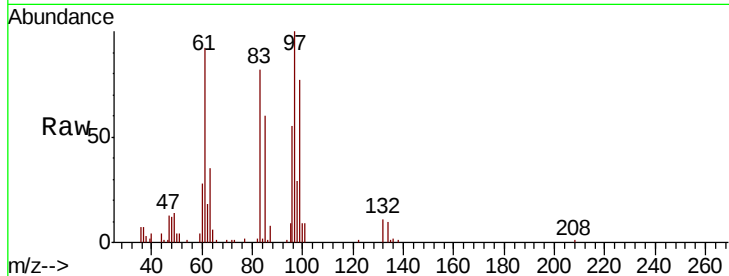
VF0731SBS02

Tot Ion:	97	Resp:	26833
Ion	Ratio	Lower	Upper
97	100		
83	81.8	66.6	100.0
85	59.8	47.4	71.0
99	76.7	53.2	79.8

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#56

Ethyl methacrylate

Concen: 19.225 ug/l

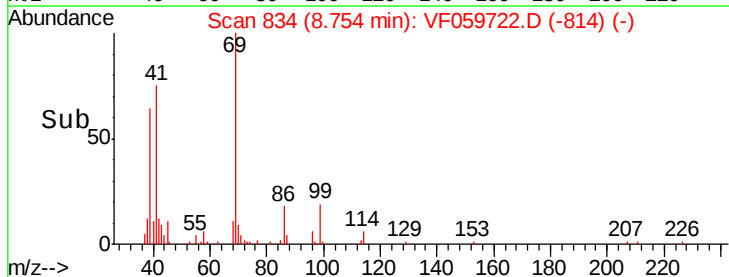
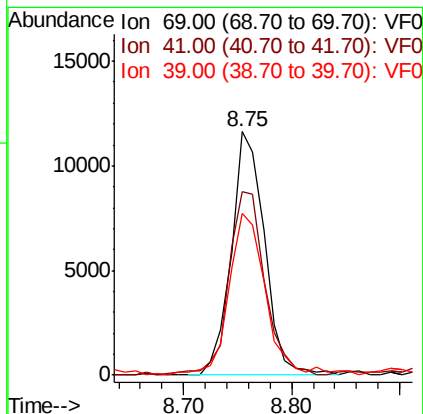
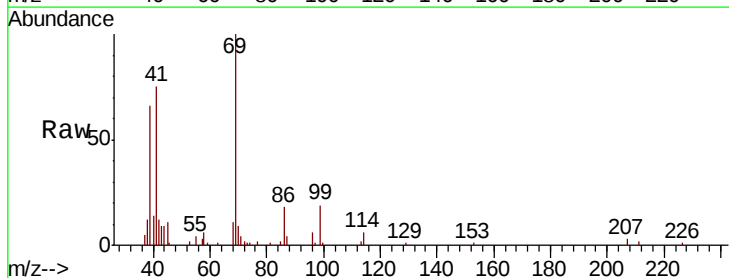
RT: 8.75 min Scan# 834

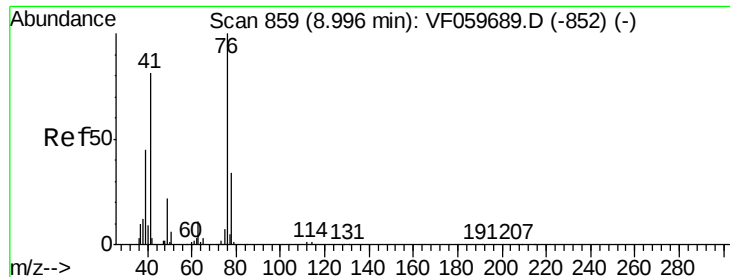
Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion:	69	Resp:	24822
Ion	Ratio	Lower	Upper
69	100		
41	75.3	62.3	93.5
39	66.3	52.4	78.6





#57

1,3-Dichloropropane

Concen: 22.089 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion: 76 Resp: 46915

Ion Ratio Lower Upper

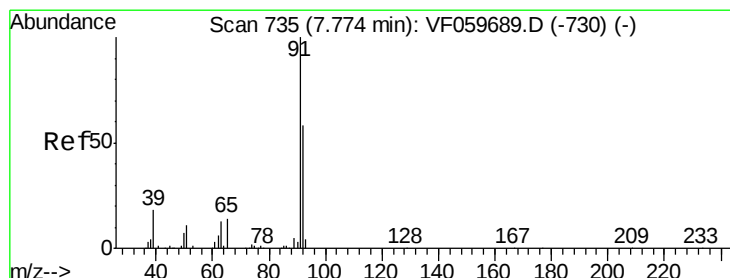
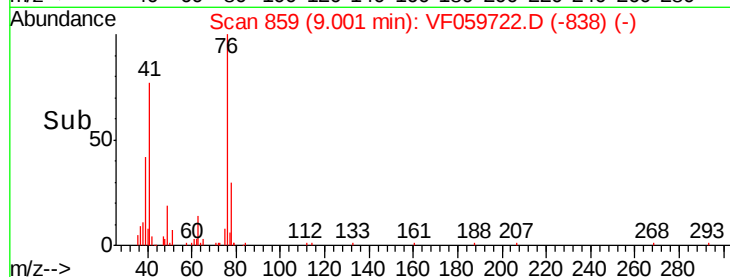
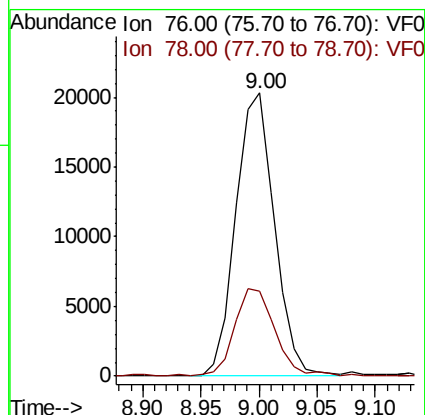
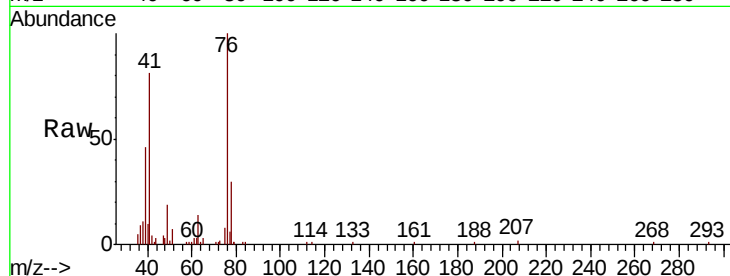
76 100

78 29.8 27.2 40.8

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#58

2-Chloroethyl Vinyl ether

Concen: 117.731 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059722.D

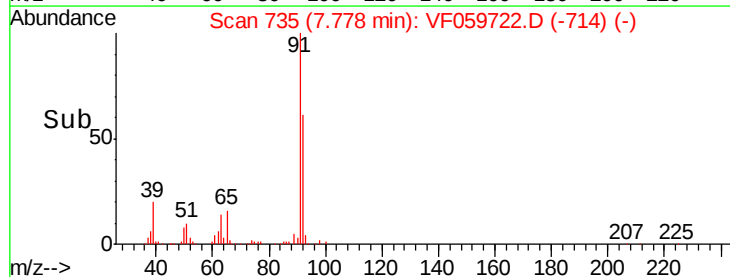
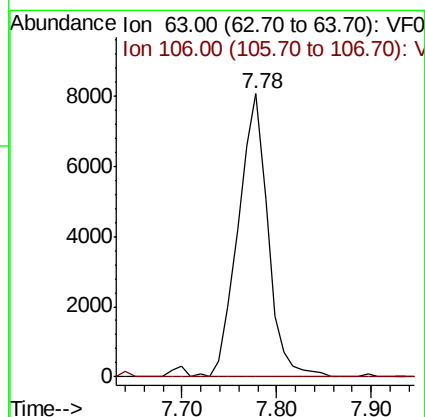
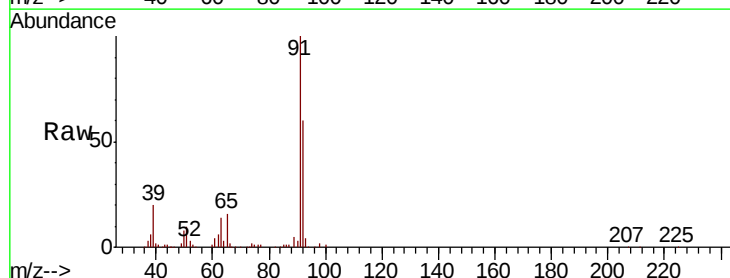
Acq: 31 Jul 2018 21:12

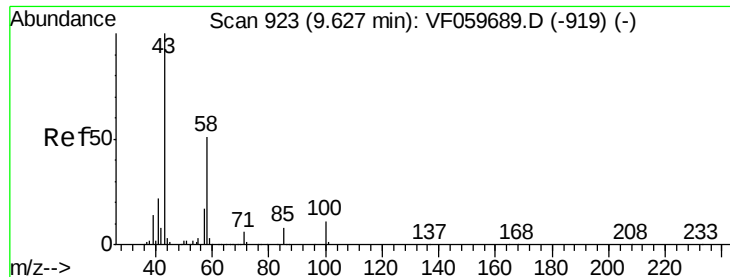
Tgt Ion: 63 Resp: 17550

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#59
2-Hexanone
Concen: 90.480 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

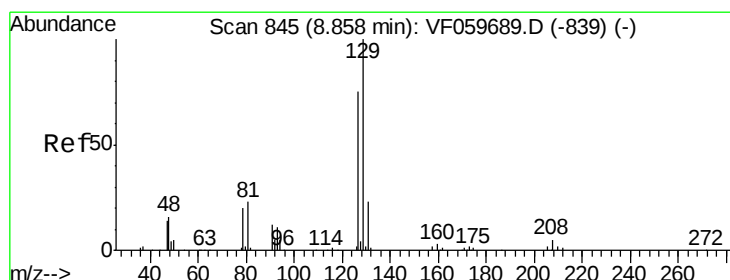
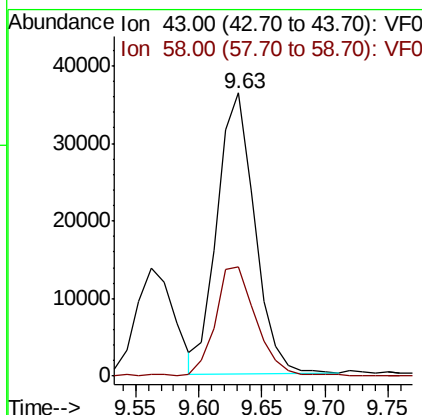
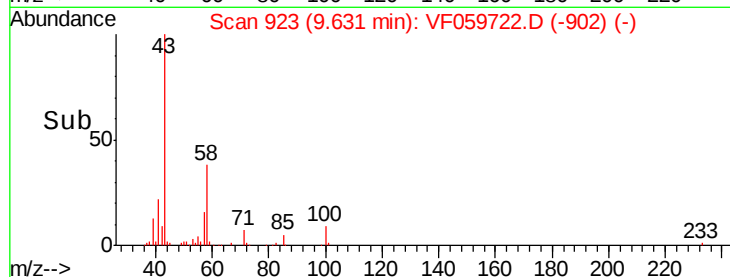
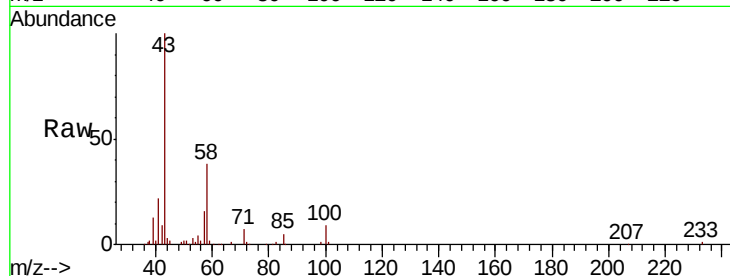
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.4	23.3	69.8

Manual Integrations
APPROVED

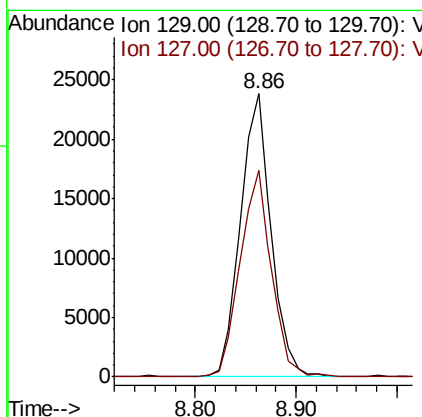
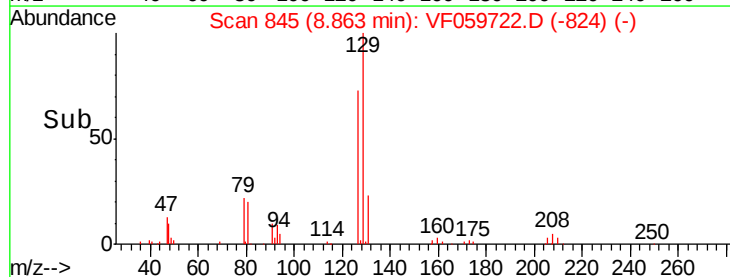
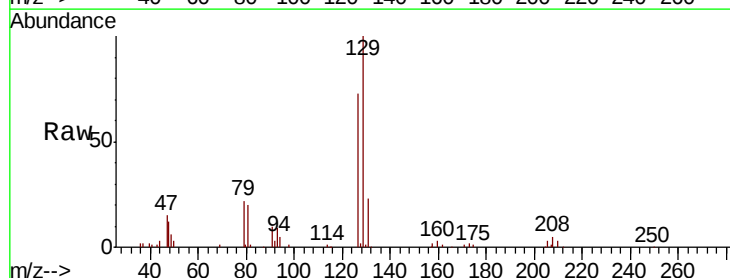
apatel

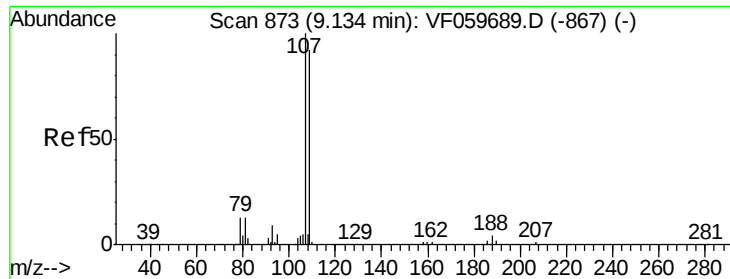
8/1/2018 4:29:25 PM



#60
Dibromochloromethane
Concen: 23.074 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.9	37.7	113.1





#61
 1,2-Dibromoethane
 Concen: 22.701 ug/l
 RT: 9.14 min Scan# 873
 Delta R.T. 0.00 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

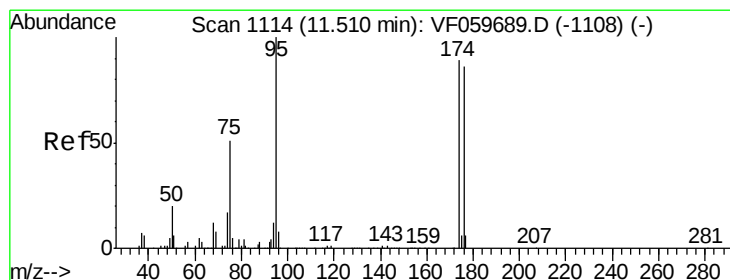
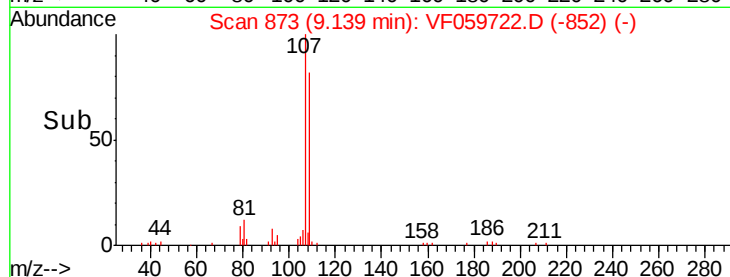
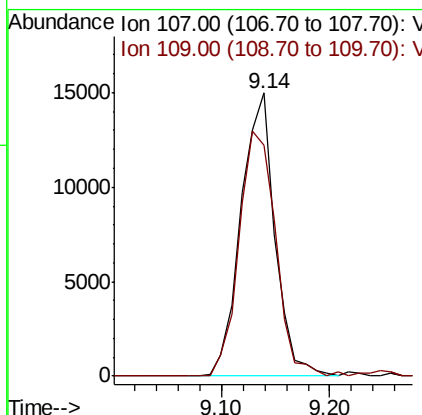
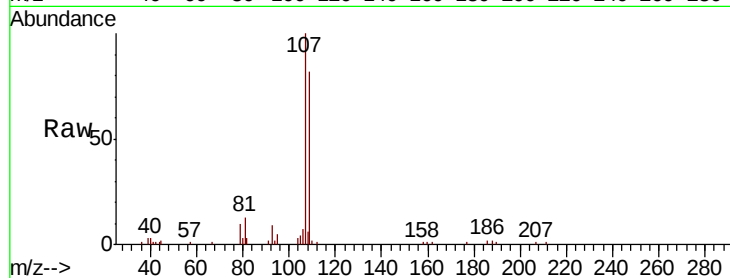
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS02

Tot Ion	Ratio	Lower	Upper
107	100		
109	81.7	73.6	110.4

Manual Integrations
 APPROVED

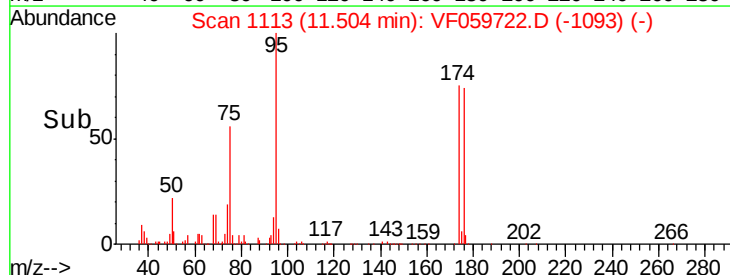
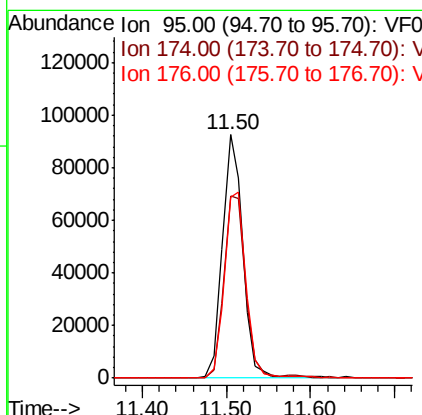
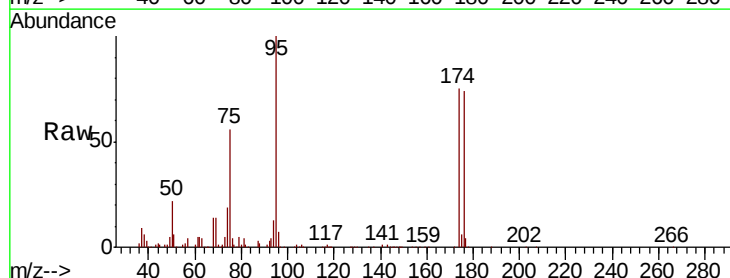
apatel

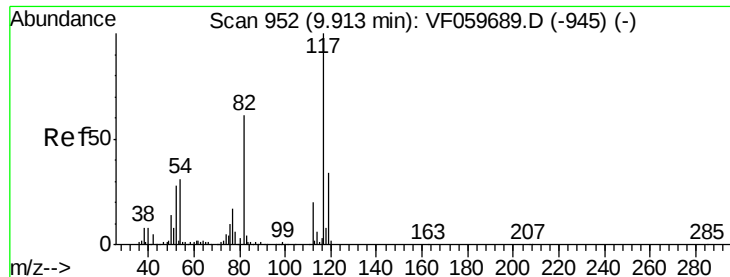
8/1/2018 4:29:25 PM



#62
 4-Bromofluorobenzene
 Concen: 51.406 ug/l
 RT: 11.50 min Scan# 1113
 Delta R.T. -0.01 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.0	0.0	178.4
176	74.0	0.0	173.0





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

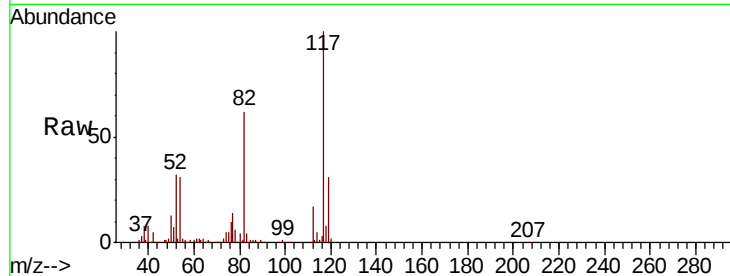
Instrument :
MSVOA_F
ClientSampled :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.0	49.0	73.4
119	31.1	27.3	40.9

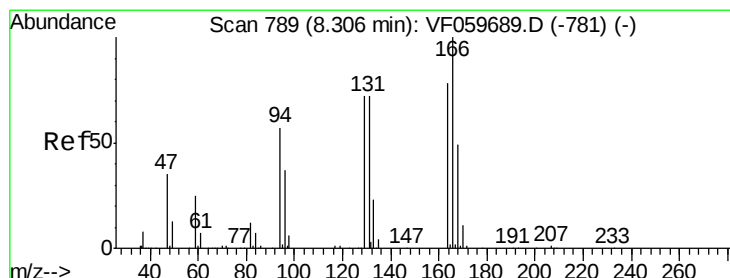
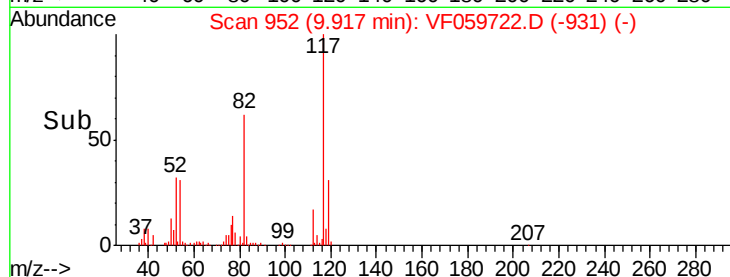
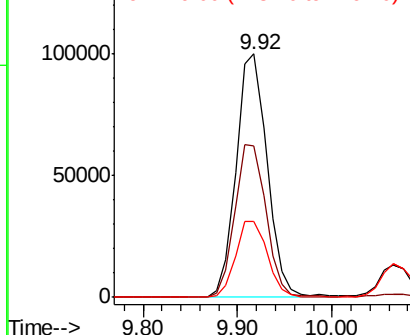
Manual Integrations
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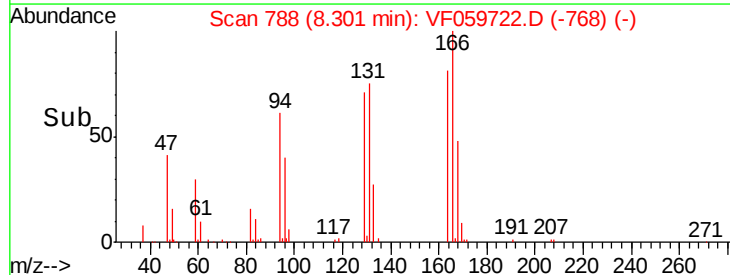
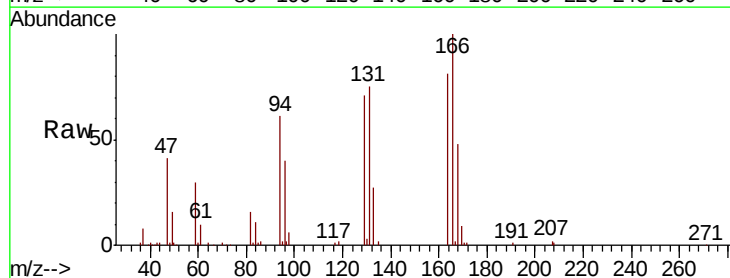
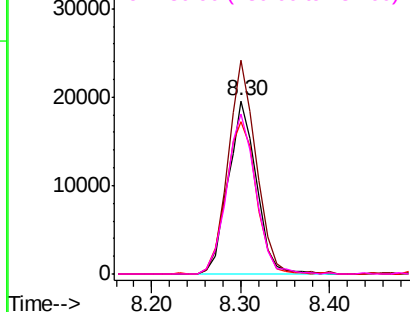
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

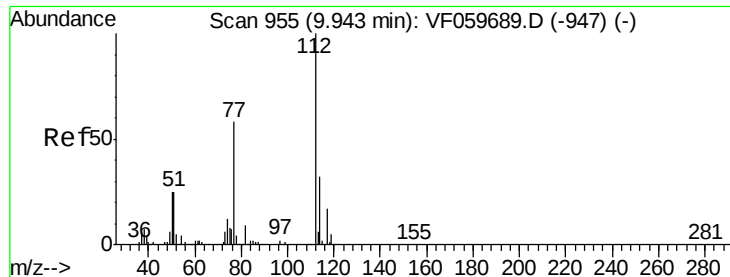


#64
Tetrachloroethene
Concen: 26.185 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.3	102.1	153.1
129	87.9	73.8	110.6
131	92.6	73.1	109.7

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#65
Chlorobenzene
Concen: 21.884 ug/l
RT: 9.94 min Scan# 954
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

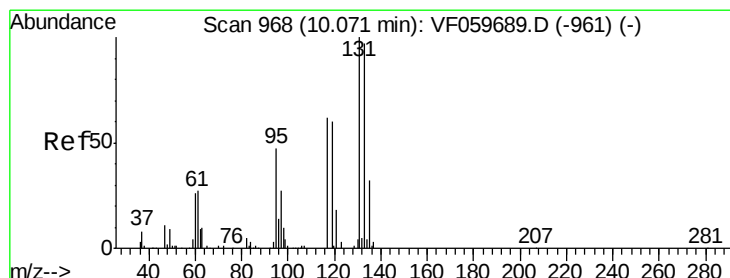
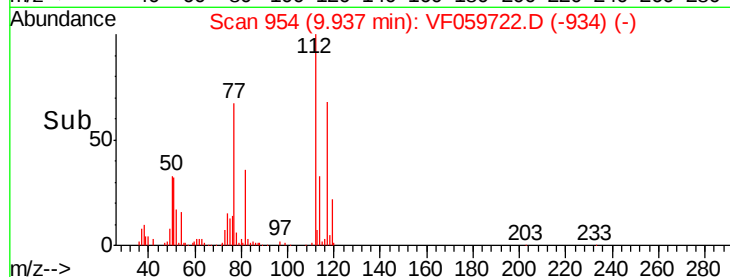
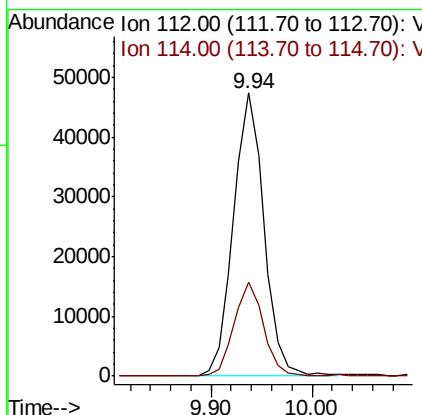
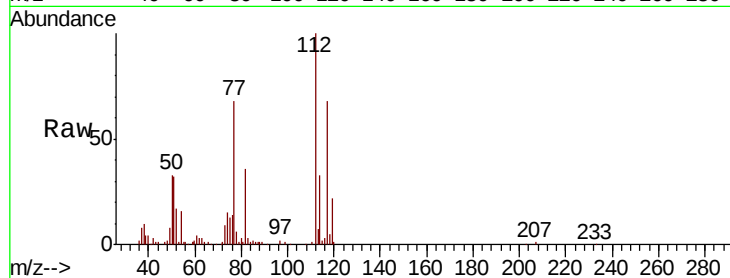
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.6	38.4

Manual Integrations
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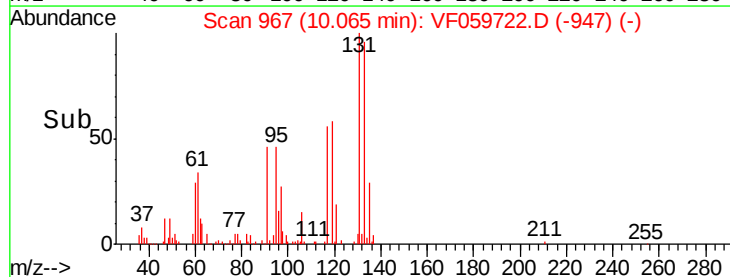
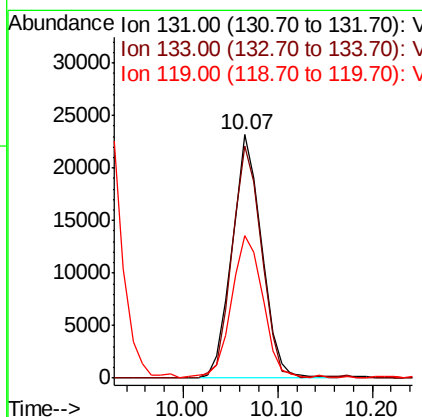
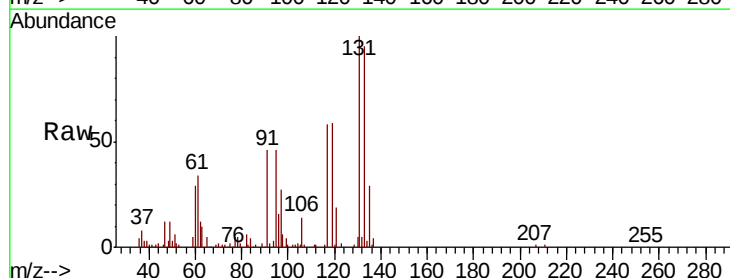
apatel

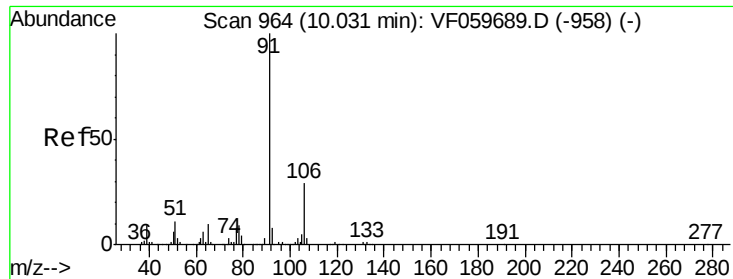
8/1/2018 4:29:25 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 23.684 ug/l
RT: 10.07 min Scan# 967
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.3	48.5	145.5
119	58.5	30.3	90.8





#67
Ethyl Benzene
Concen: 22.783 ug/l
RT: 10.04 min Scan# 964
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

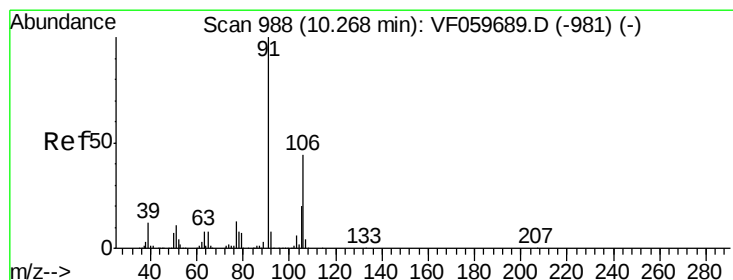
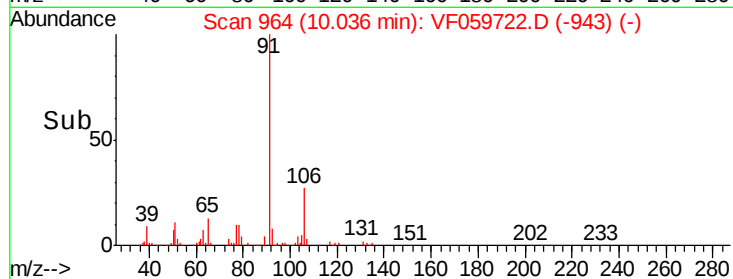
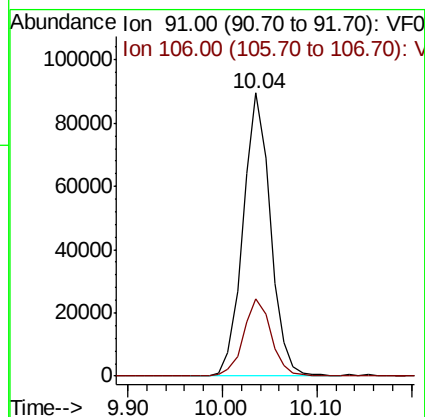
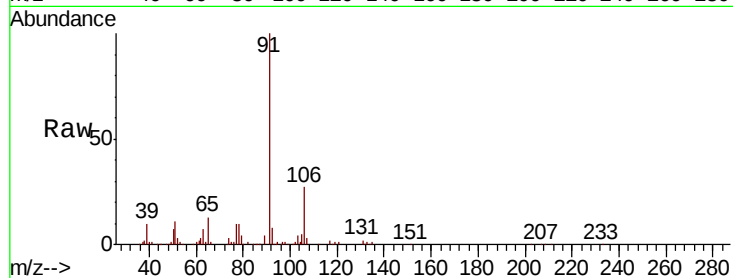
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion: 91 Resp: 179741
Ion Ratio Lower Upper
91 100
106 27.4 22.9 34.3

Manual Integrations
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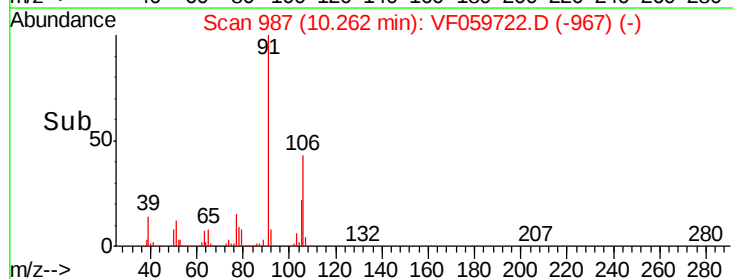
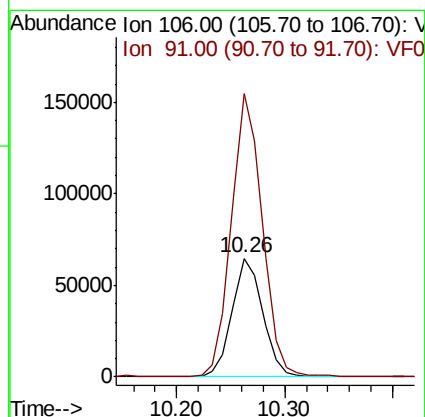
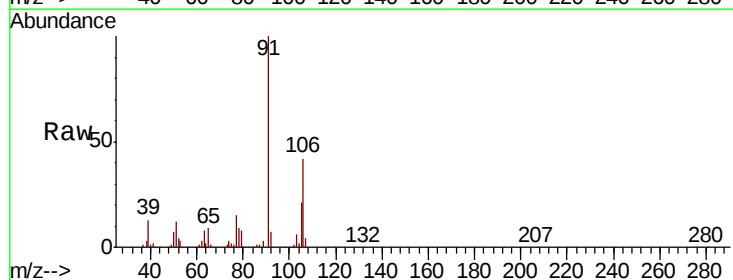
apatel

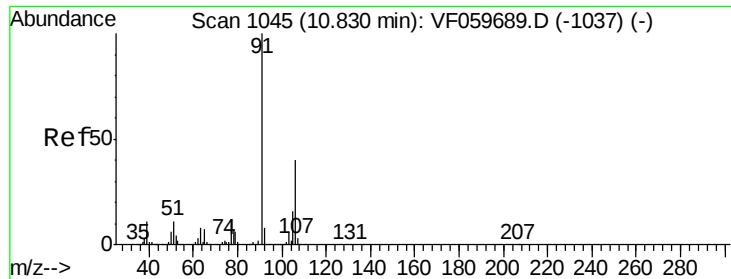
8/1/2018 4:29:25 PM



#68
m/p-Xylenes
Concen: 48.285 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion: 106 Resp: 129063
Ion Ratio Lower Upper
106 100
91 239.1 181.7 272.5





#69
o-Xylene
Concen: 23.201 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

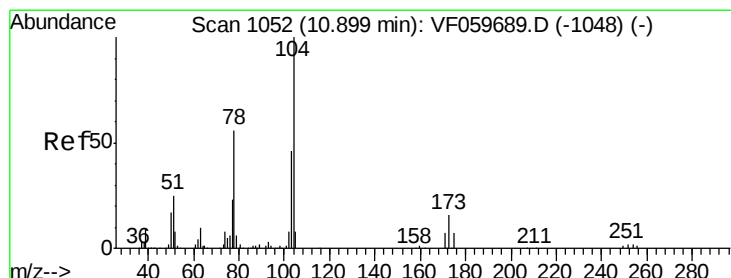
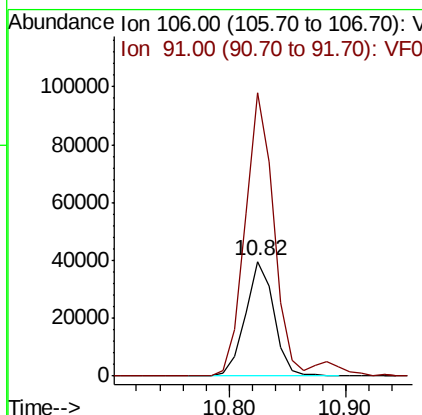
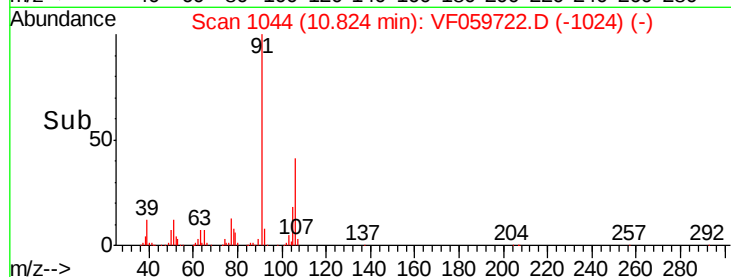
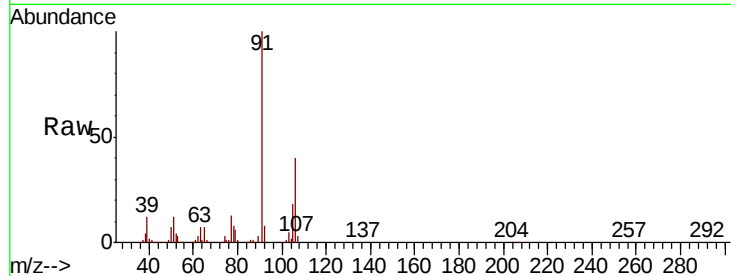
Instrument :
MSVOA_F
ClientSampled :
VF0731SBS02

Tot Ion:106 Resp: 67444
Ion Ratio Lower Upper
106 100
91 247.1 124.6 373.7

Manual Integrations
APPROVED

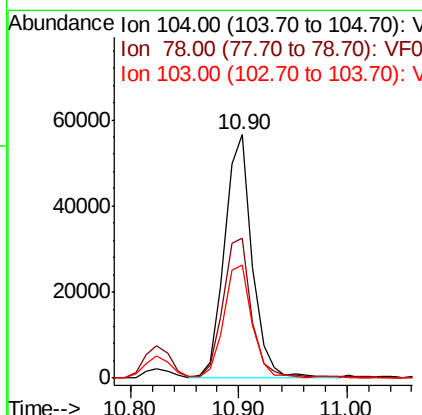
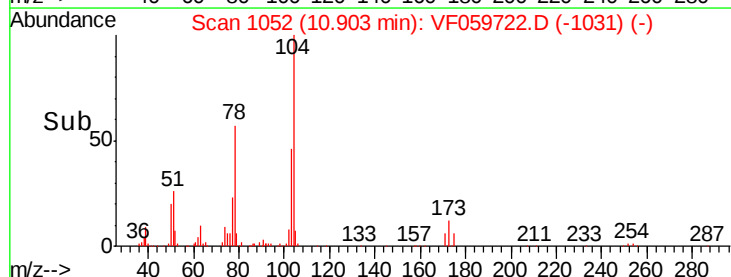
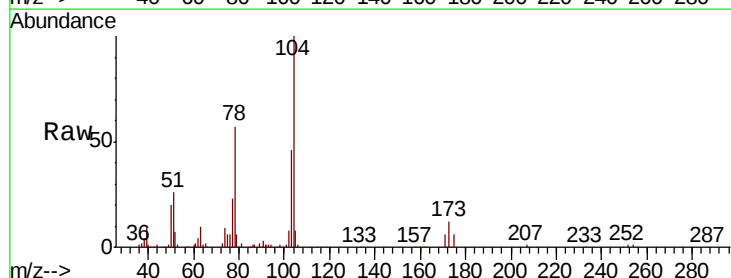
apatel

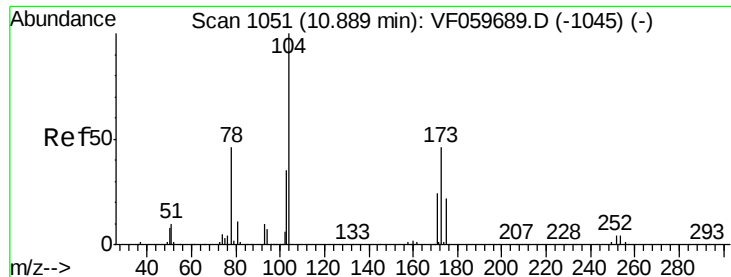
8/1/2018 4:29:25 PM



#70
Styrene
Concen: 22.859 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion:104 Resp: 100667
Ion Ratio Lower Upper
104 100
78 57.3 45.3 67.9
103 46.4 36.6 54.8





#71

Bromoform

Concen: 24.099 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion:173 Resp: 33429

Ion Ratio Lower Upper

173 100

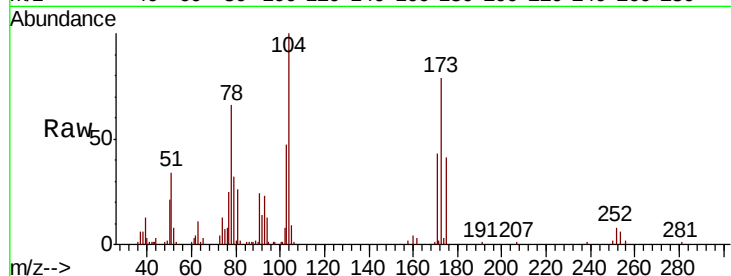
175 50.6 23.4 70.0

254 0.0 0.0 0.0

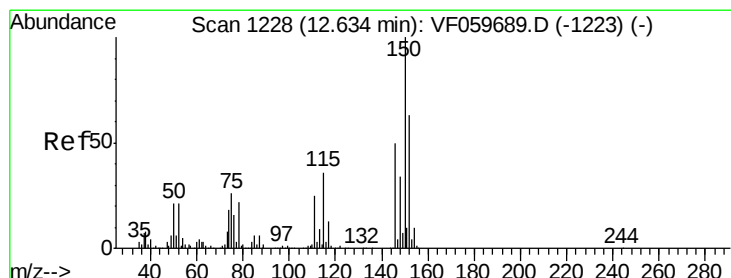
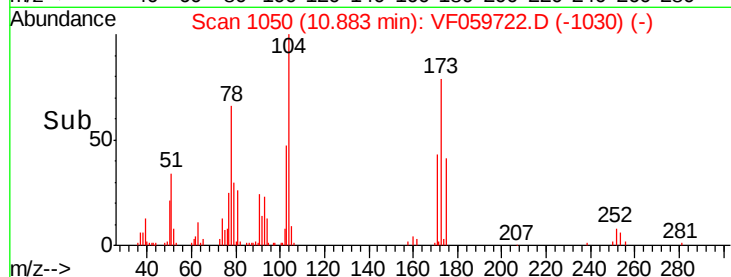
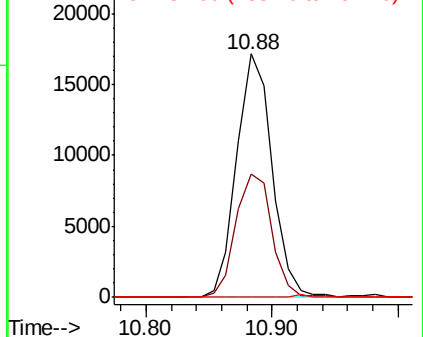
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Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

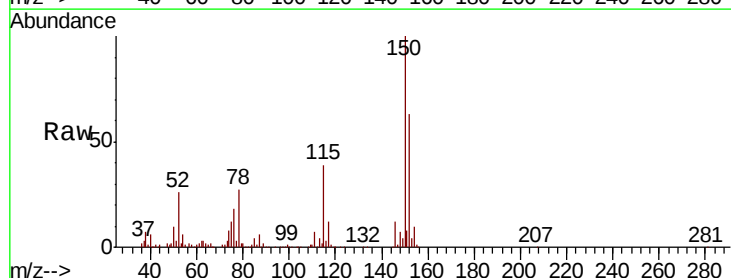
Tgt Ion:152 Resp: 152476

Ion Ratio Lower Upper

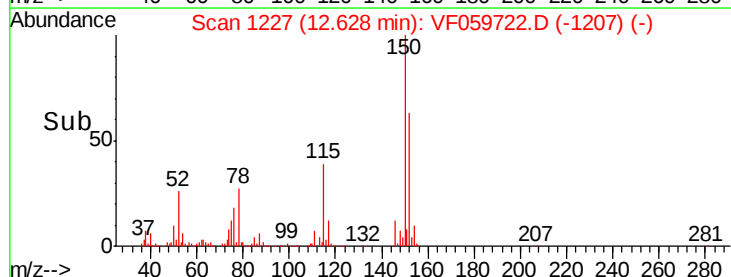
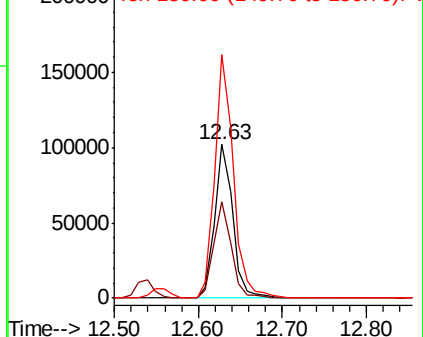
152 100

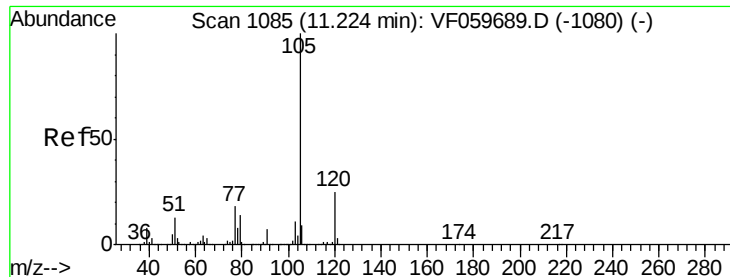
115 62.7 28.2 84.6

150 158.6 0.0 316.2



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: 21.498 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampled :

VF0731SBS02

Tot Ion: 105 Resp: 215083

Ion Ratio Lower Upper

105 100

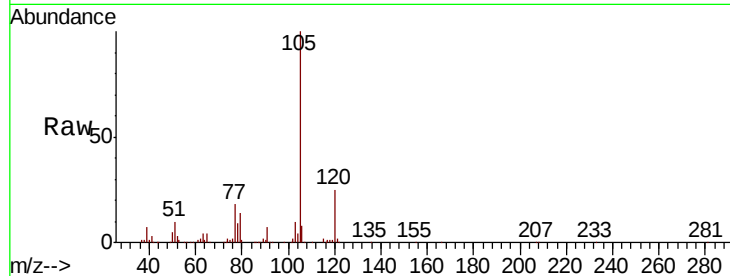
120 24.8 12.4 37.4

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

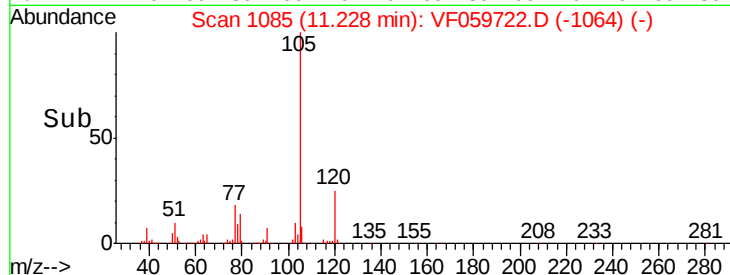
150000

110000

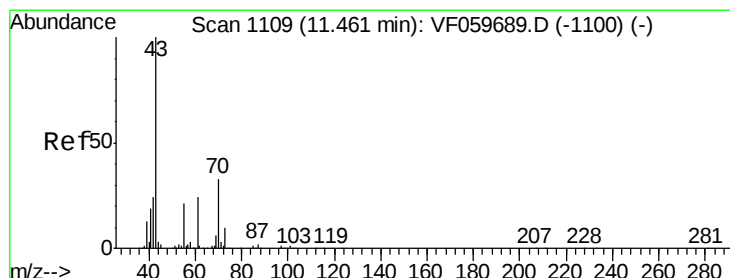
50000

0

Time-->



Time-->



#74

N-ethyl acetate

Concen: 18.896 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion: 43 Resp: 47696

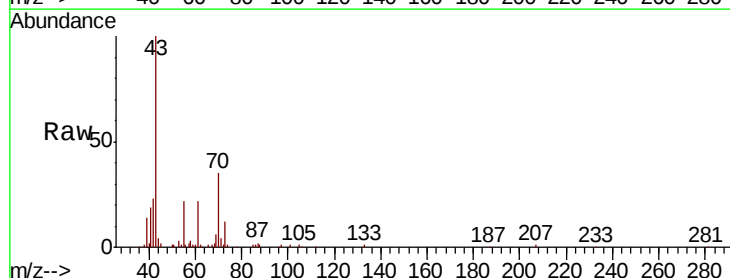
Ion Ratio Lower Upper

43 100

70 35.1 26.3 39.5

55 21.5 16.6 25.0

61 22.4 19.1 28.7



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

40000

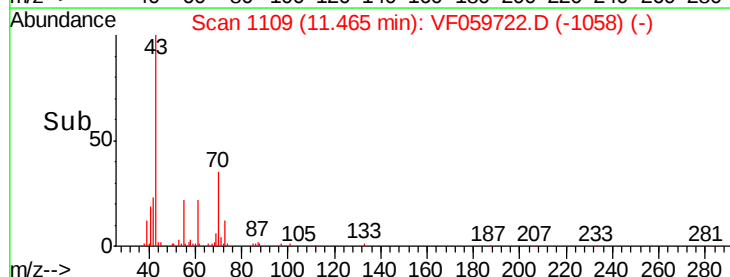
30000

20000

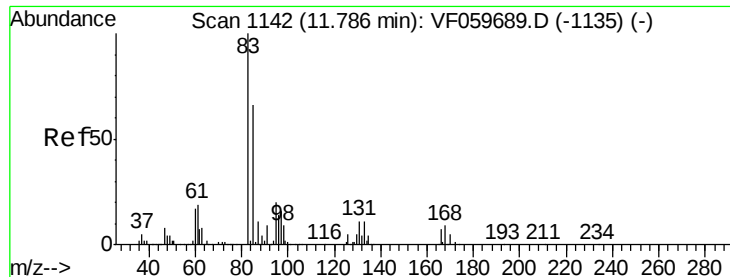
10000

0

Time-->



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: 21.754 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

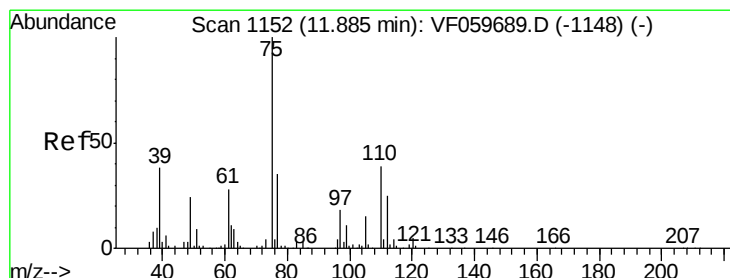
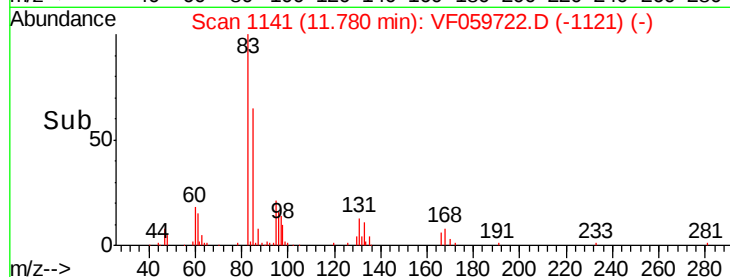
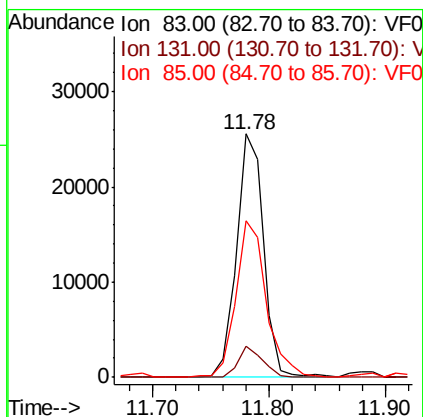
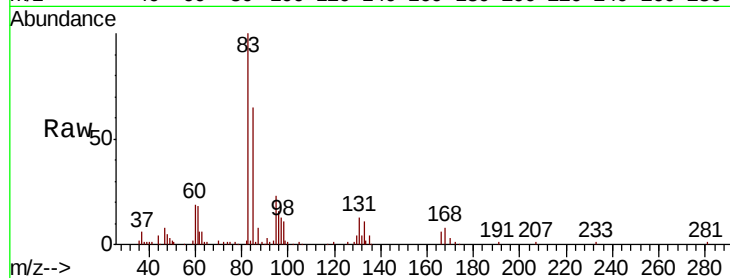
VF0731SBS02

Tot Ion:	83	Resp:	40968
Ion Ratio	Lower	Upper	
83	100		
131	12.9	5.8	17.3
85	64.5	32.8	98.3

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.477 ug/l

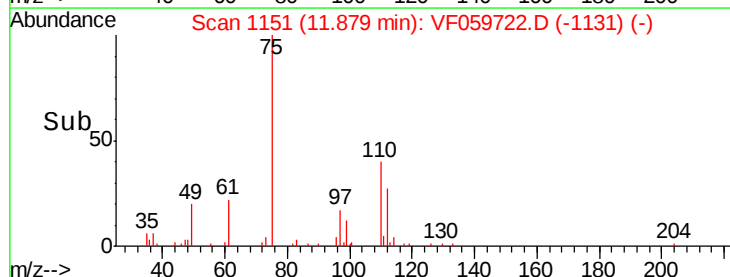
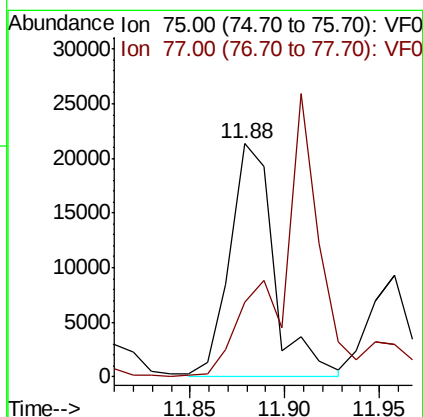
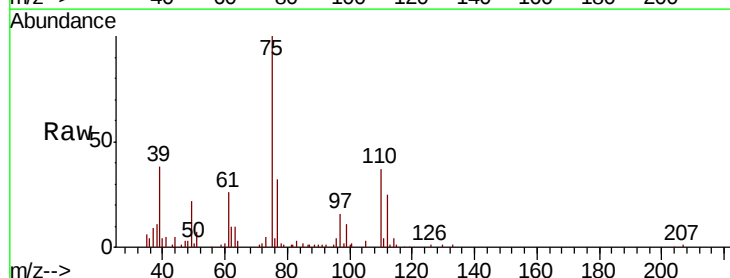
RT: 11.88 min Scan# 1151

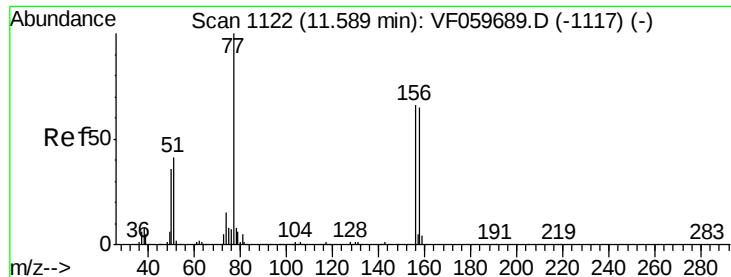
Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion:	75	Resp:	34394
Ion Ratio	Lower	Upper	
75	100		
77	32.0	18.0	54.0





#77

Bromobenzene

Concen: 21.484 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

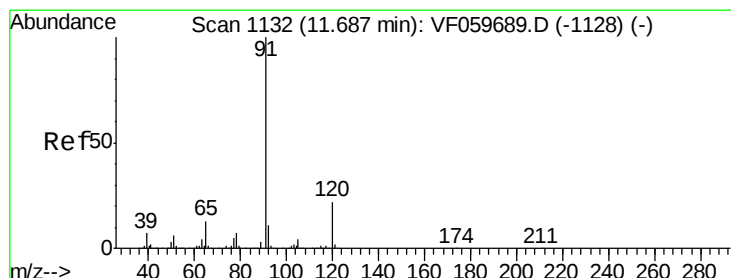
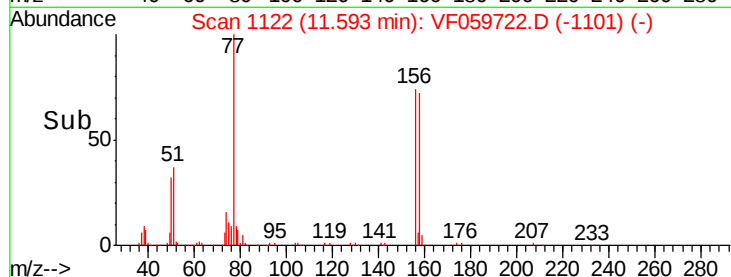
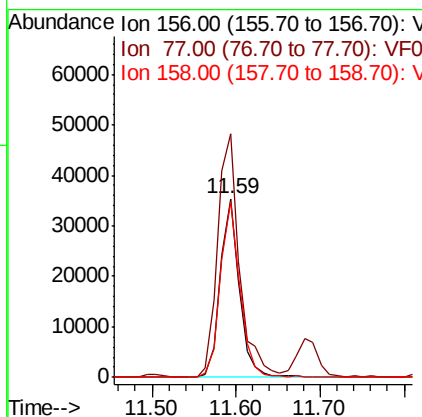
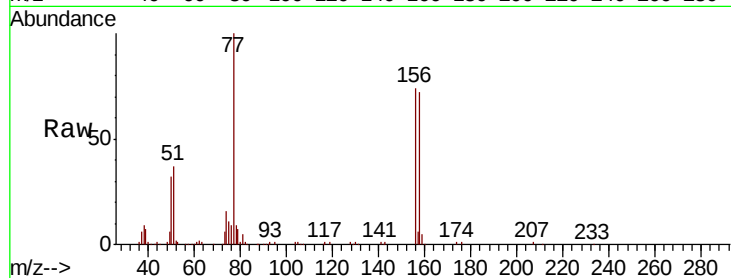
VF0731SBS02

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	136.0	75.2	225.6	
158	98.1	49.1	147.3	

Manual Integrations
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#78

n-propylbenzene

Concen: 22.313 ug/l

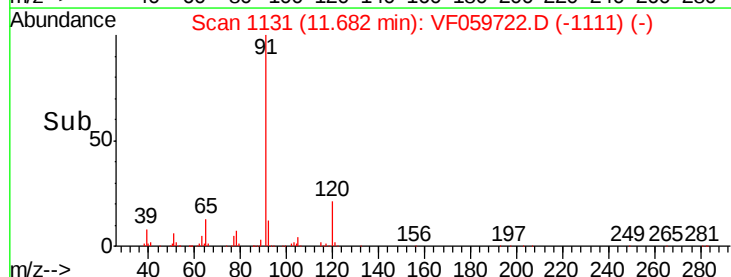
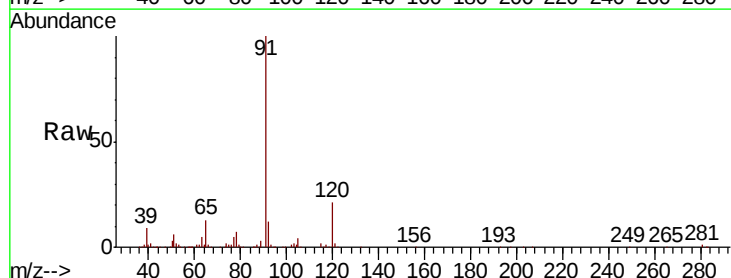
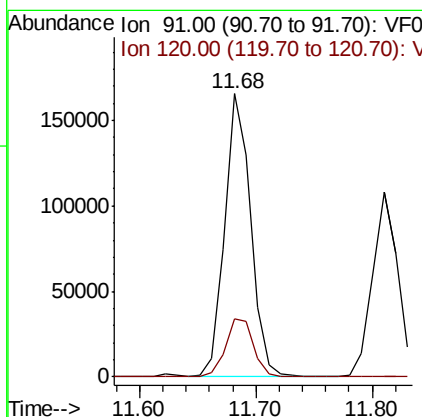
RT: 11.68 min Scan# 1131

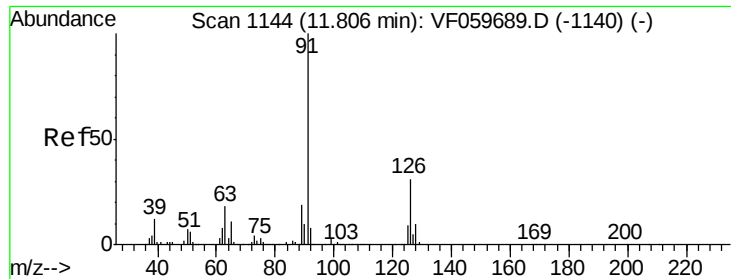
Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	20.6	11.0	33.0	





#79
 2-Chlorotoluene
 Concen: 22.819 ug/l
 RT: 11.81 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

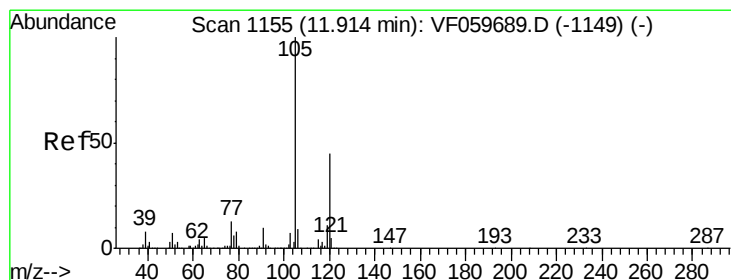
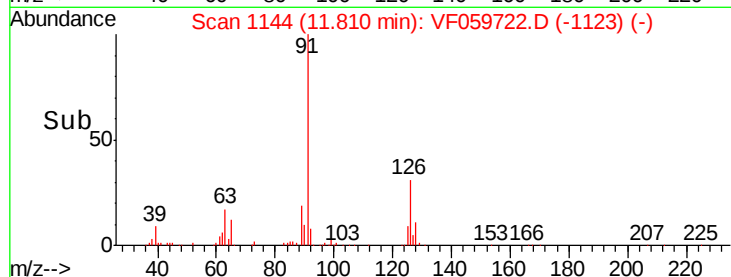
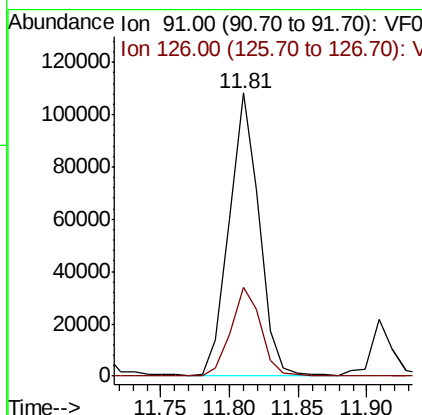
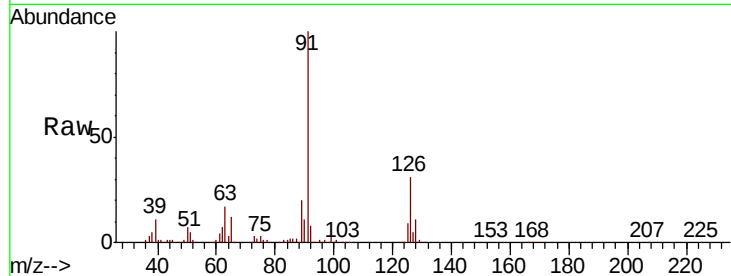
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS02

Tot Ion: 91 Resp: 162681
 Ion Ratio Lower Upper
 91 100
 126 31.2 15.4 46.2

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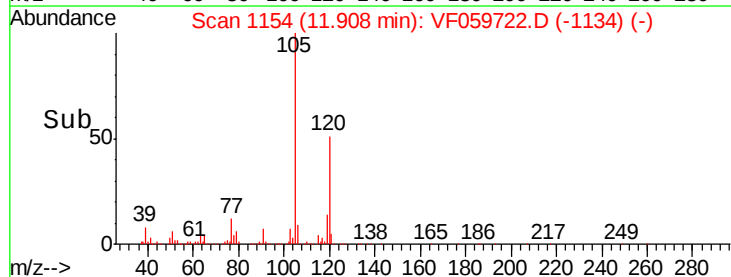
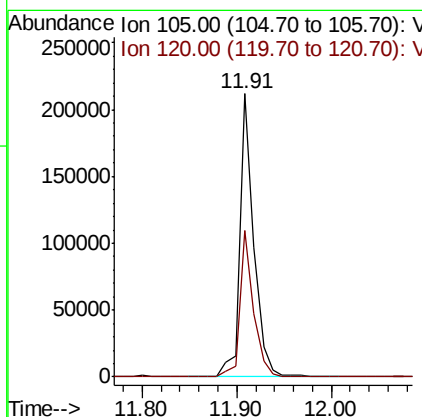
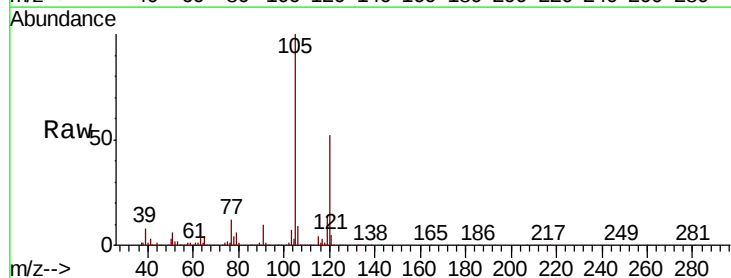
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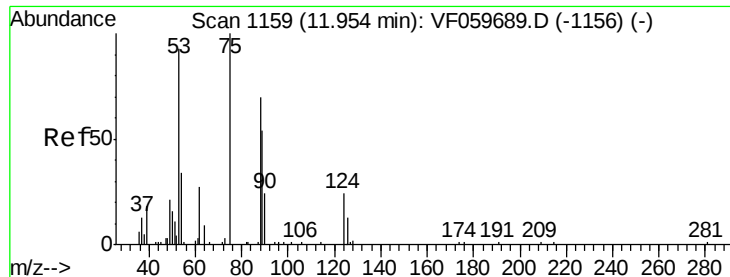
8/1/2018 4:29:25 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 25.010 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. -0.01 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

Tgt Ion: 105 Resp: 217790
 Ion Ratio Lower Upper
 105 100
 120 51.7 22.7 68.0





#81

trans-1,4-Dichloro-2-butene

Concen: 22.764 ug/l m

RT: 11.96 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

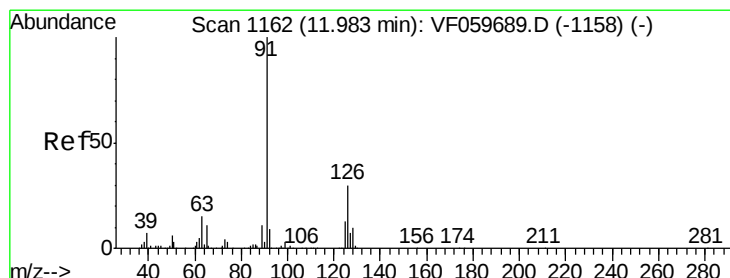
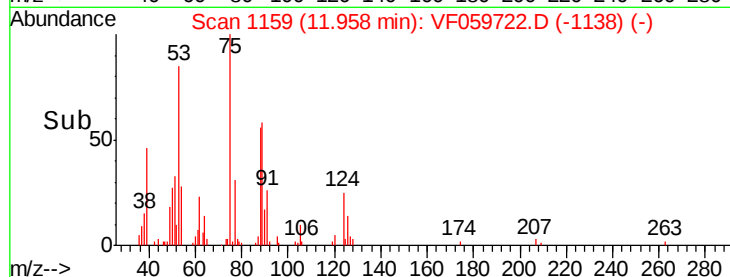
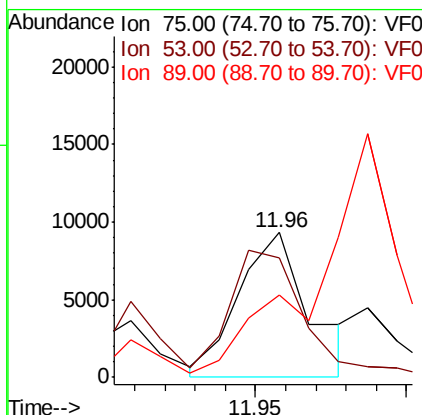
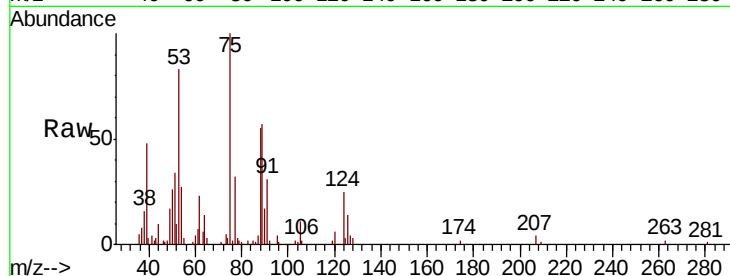
VF0731SBS02

Tot Ion:	75	Resp:	15097
Ion Ratio	Lower	Upper	
75	100		
53	83.0	78.3	117.5
89	56.8	45.4	68.2

Manual Integrations
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#82

4-Chlorotoluene

Concen: 23.356 ug/l

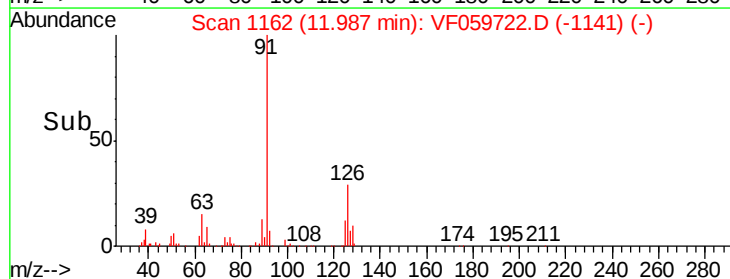
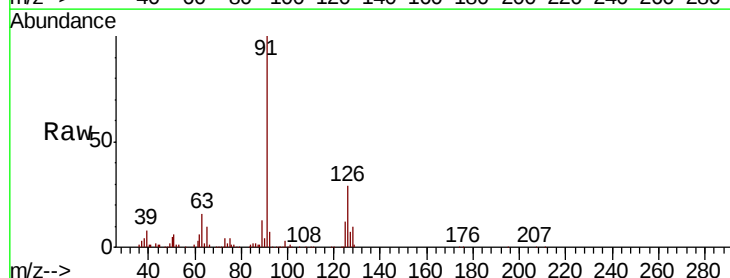
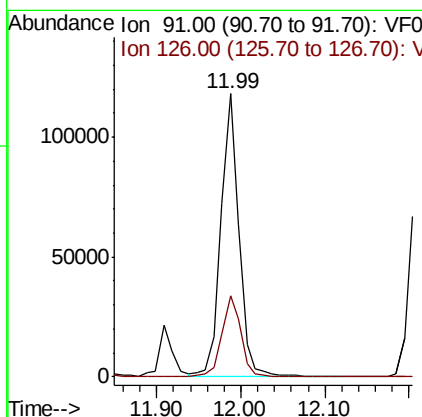
RT: 11.99 min Scan# 1162

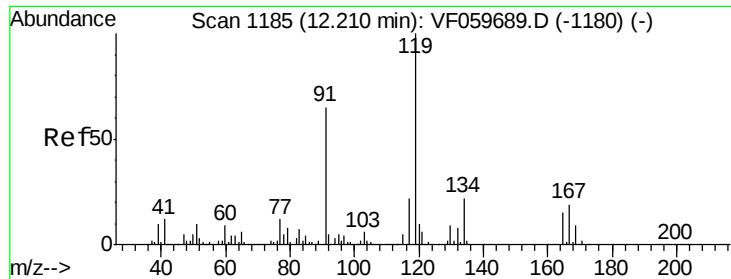
Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion:	91	Resp:	175763
Ion Ratio	Lower	Upper	
91	100		
126	28.7	15.2	45.6





#83
tert-Butylbenzene
Concen: 23.279 ug/l
RT: 12.21 min Scan# 1185
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

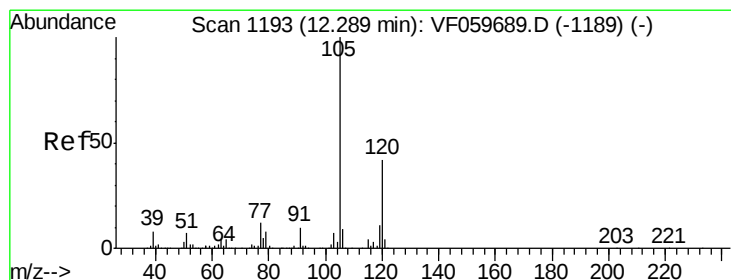
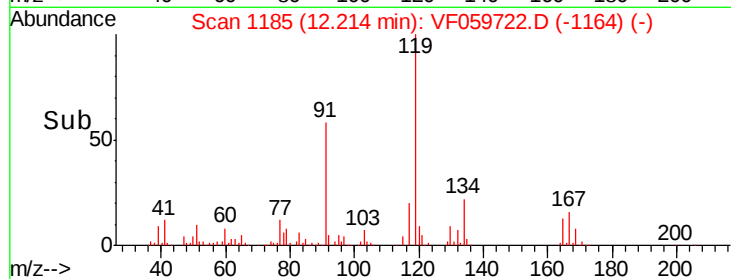
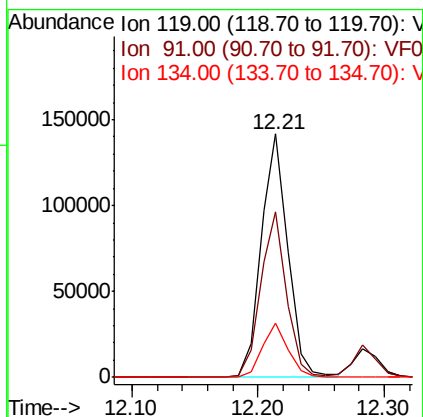
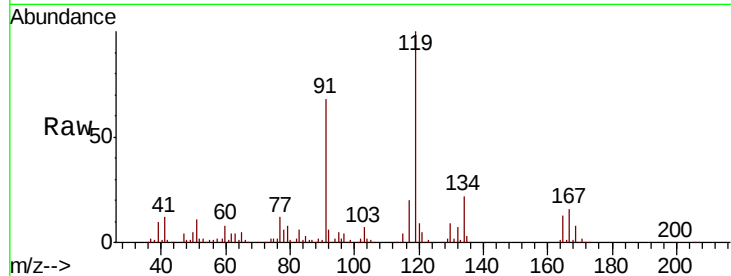
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	209071		
91	68.0		32.8	98.4
134	22.1		10.9	32.7

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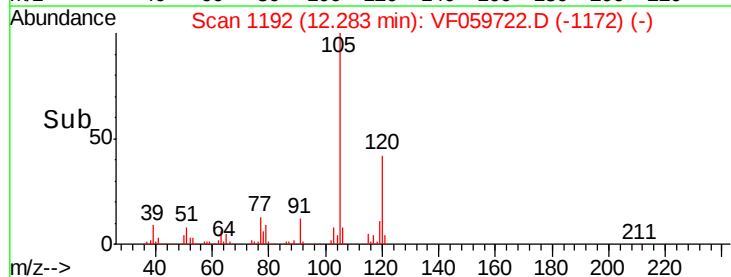
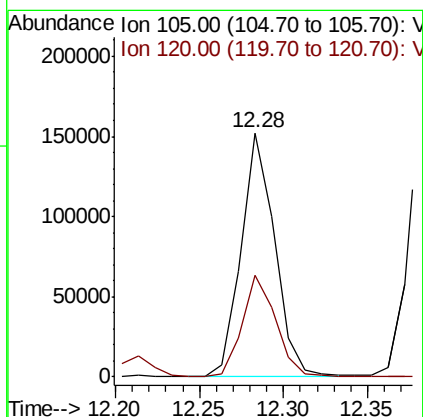
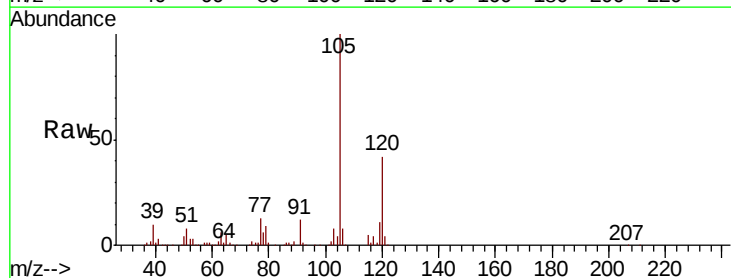
apatel

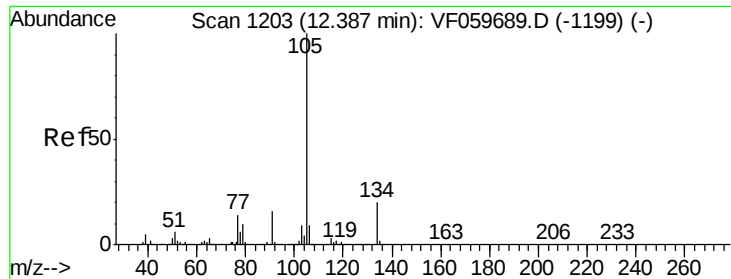
8/1/2018 4:29:25 PM



#84
1,2,4-Trimethylbenzene
Concen: 23.944 ug/l
RT: 12.28 min Scan# 1192
Delta R.T. -0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	211819		
120	41.5		21.1	63.3





#85

sec-Butylbenzene

Concen: 22.556 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS02

Tot Ion:105 Resp: 260728

Ion Ratio Lower Upper

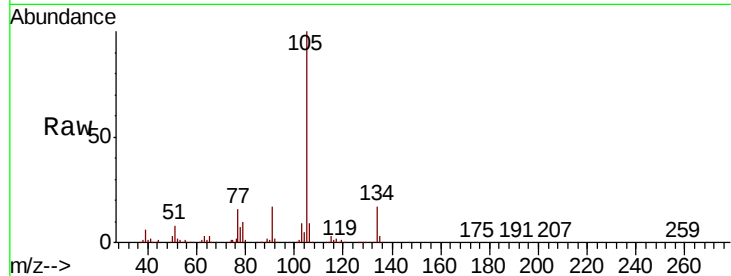
105 100

134 16.8 9.8 29.3

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.38

200000

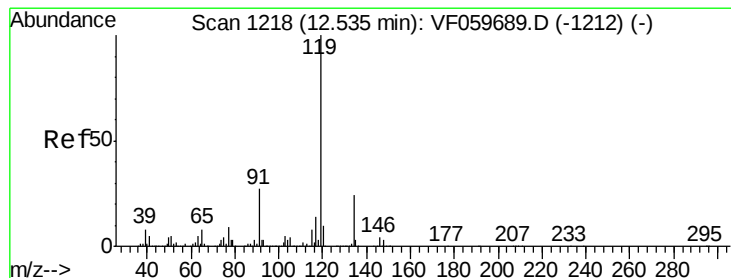
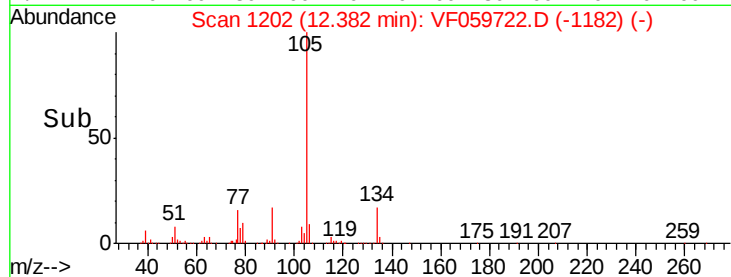
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 22.240 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

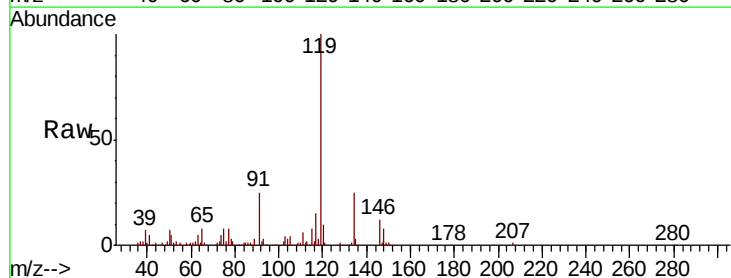
Tgt Ion:119 Resp: 225792

Ion Ratio Lower Upper

119 100

134 24.7 12.2 36.6

91 25.4 13.4 40.2



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

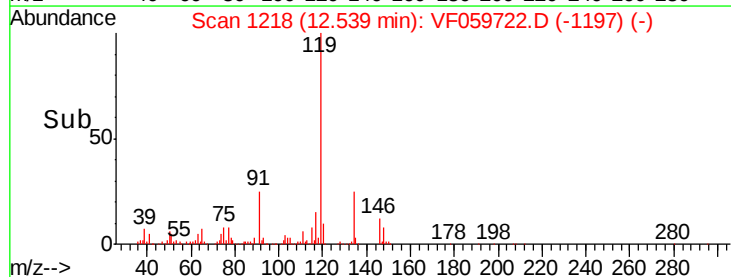
150000

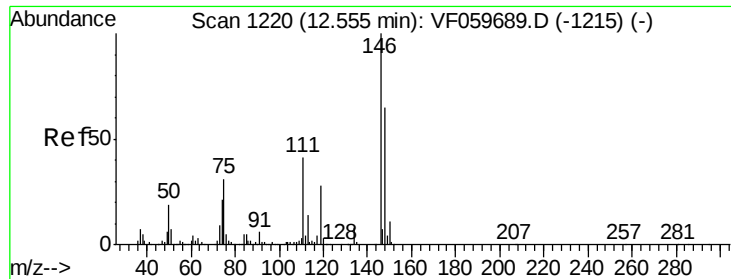
100000

50000

0

Time-->





#87
 1,3-Dichlorobenzene
 Concen: 22.342 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.01 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

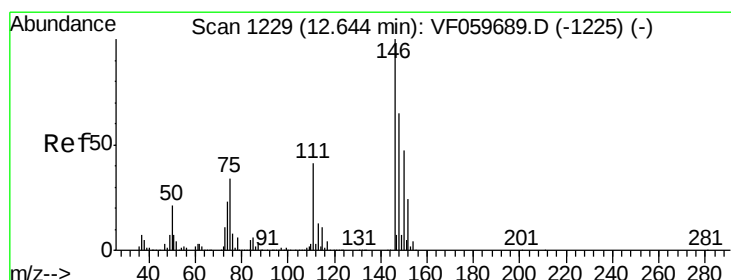
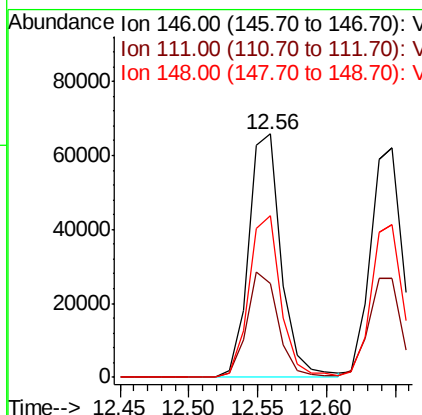
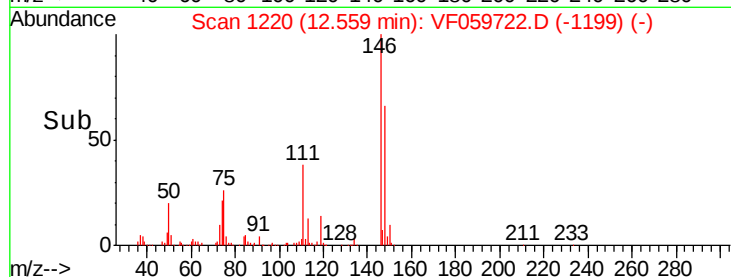
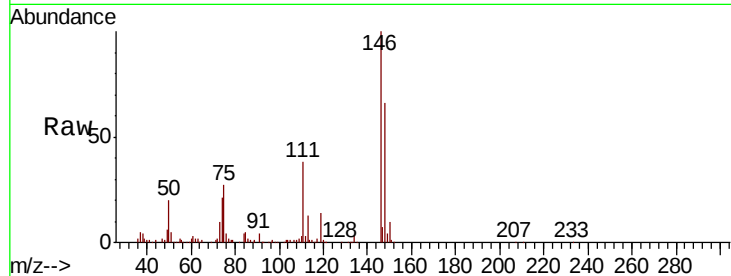
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	20.7	62.1
148	66.2	32.3	96.8

Manual Integrations
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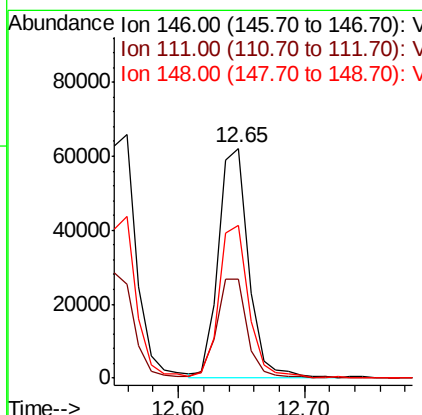
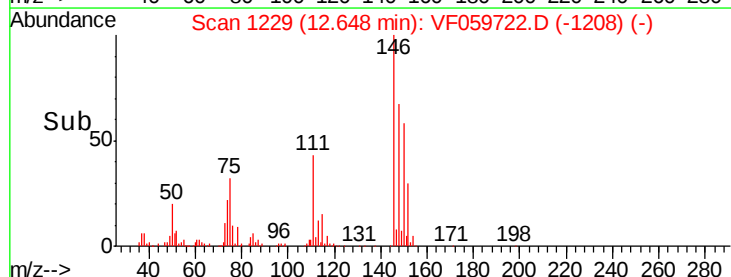
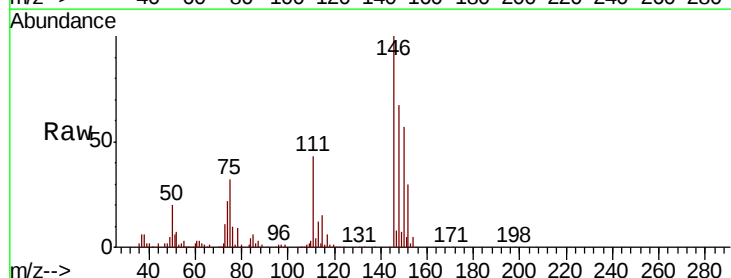
apatel

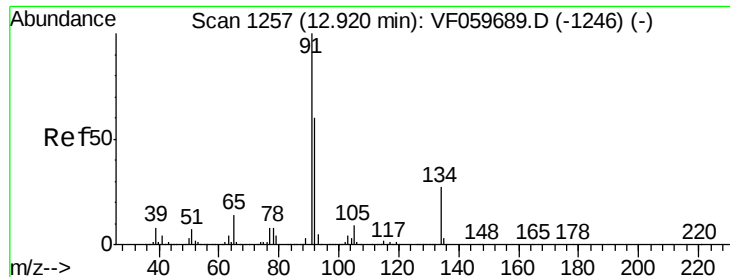
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#88
 1,4-Dichlorobenzene
 Concen: 21.564 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.8	62.2
148	66.7	32.3	96.9





#89
n-Butylbenzene
Concen: 23.200 ug/l
RT: 12.91 min Scan# 1256
Delta R.T. -0.01 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

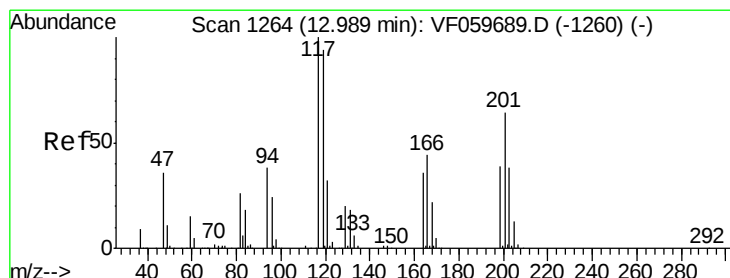
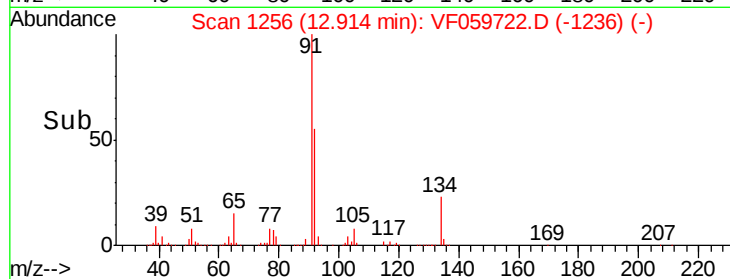
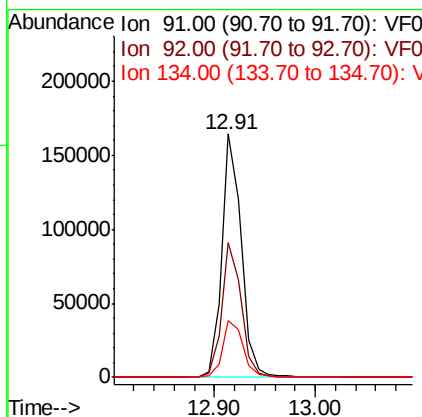
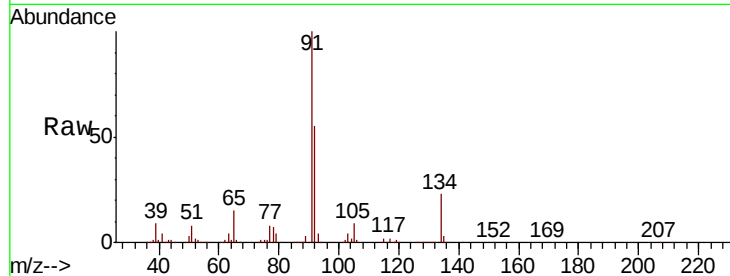
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.4	30.1	90.3
134	23.4	13.7	41.0

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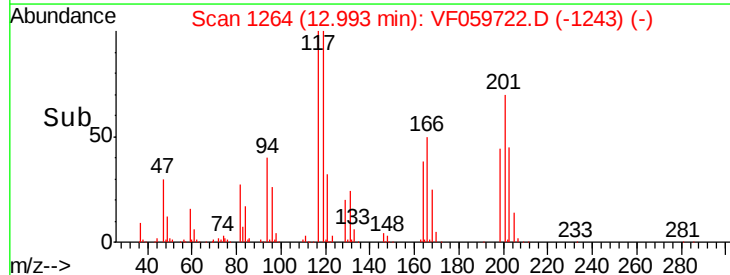
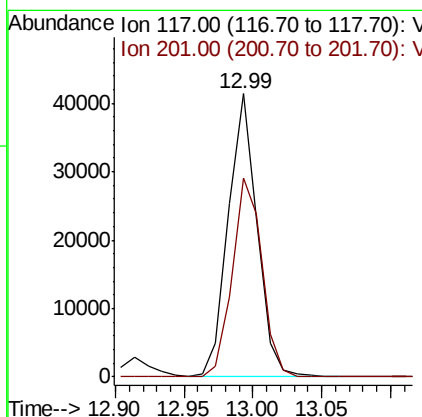
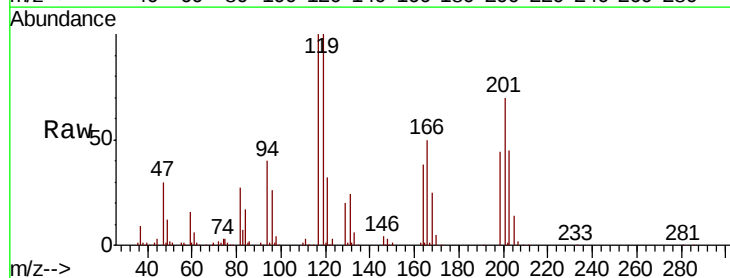
apatel

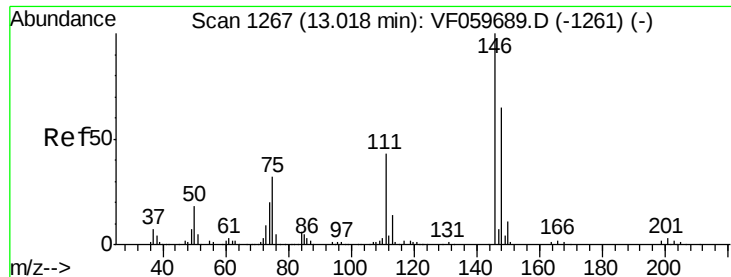
8/1/2018 4:29:25 PM



#90
Hexachloroethane
Concen: 23.967 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
117	100		
201	71.0	31.9	95.5





#91

1,2-Dichlorobenzene

Concen: 24.500 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Instrument :

MSVOA_F

ClientSampleId :

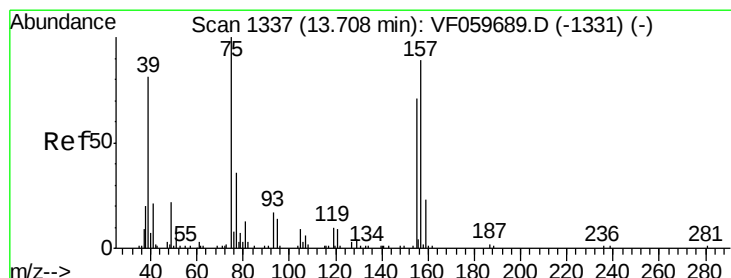
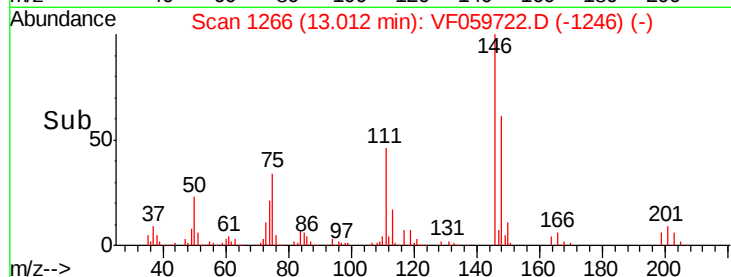
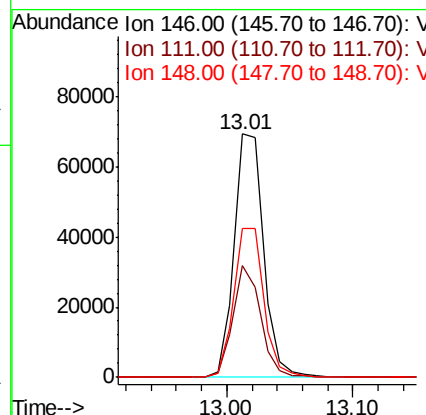
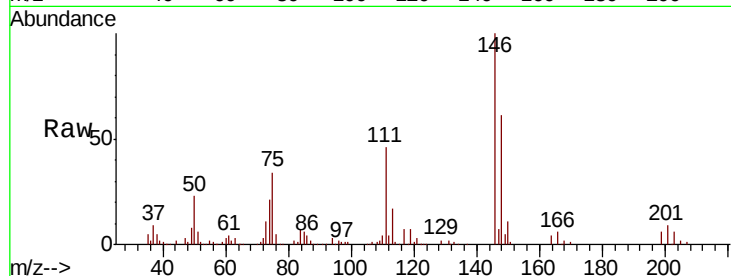
VF0731SBS02

Tot Ion:	146	Resp:	111529
Ion Ratio	Lower	Upper	
146	100		
111	46.0	21.6	65.0
148	61.3	32.3	96.9

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 22.010 ug/l

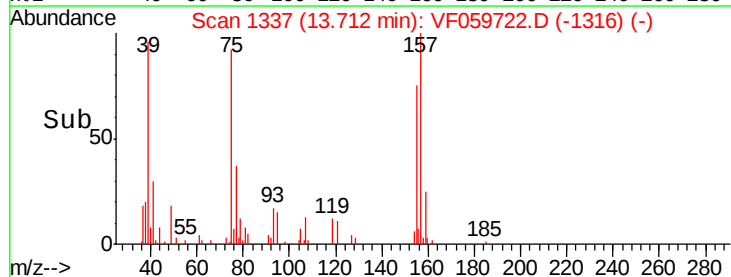
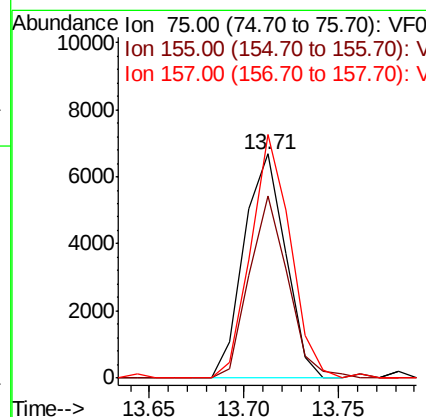
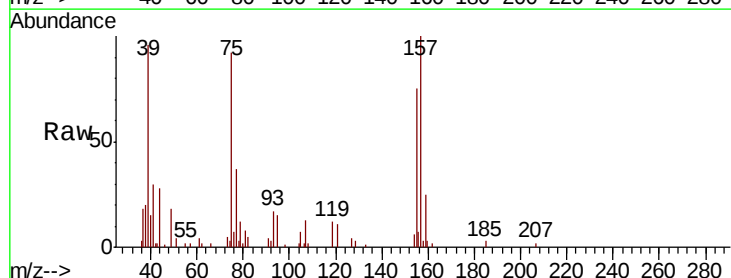
RT: 13.71 min Scan# 1337

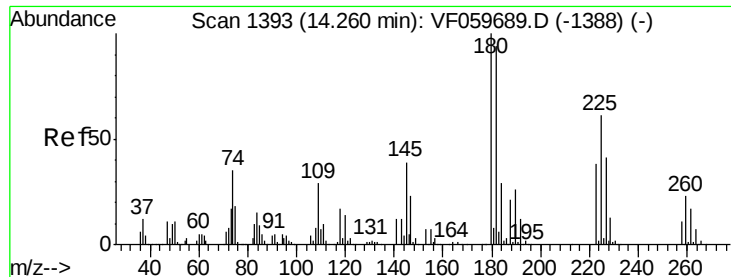
Delta R.T. 0.00 min

Lab File: VF059722.D

Acq: 31 Jul 2018 21:12

Tgt Ion:	75	Resp:	10133
Ion Ratio	Lower	Upper	
75	100		
155	81.1	35.4	106.2
157	108.6	44.4	133.2





#93
 1,2,4-Trichlorobenzene
 Concen: 22.718 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

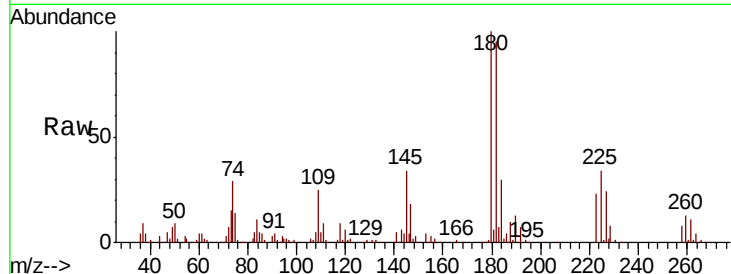
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS02

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.2	141.6
145	33.7	19.3	57.9

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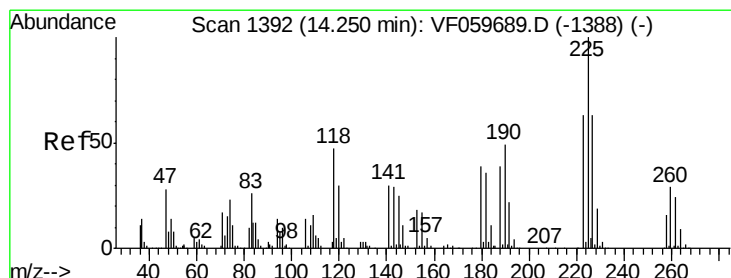
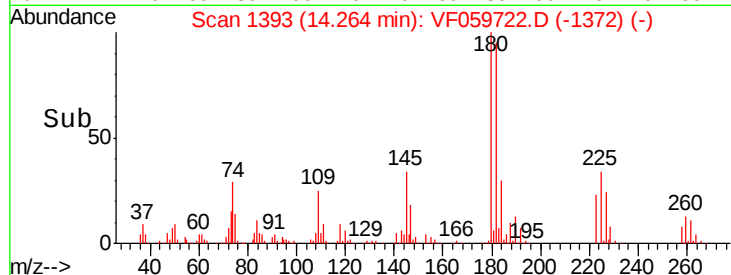
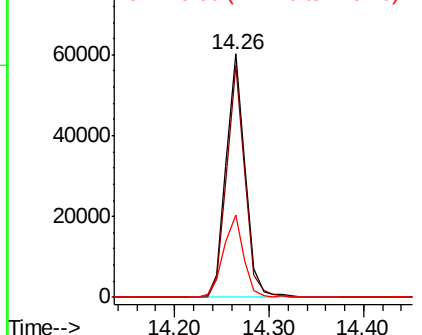


Abundance

Ion 180.00 (179.70 to 180.70): V

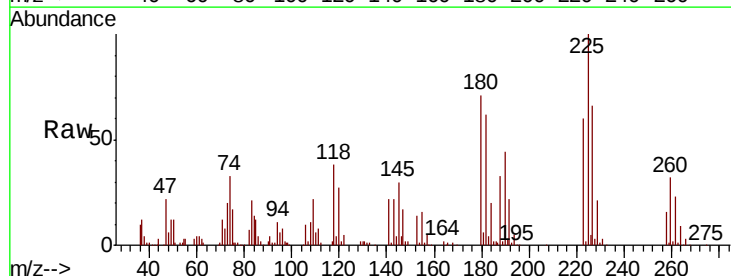
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 23.901 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VF059722.D
 Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.8	31.4	94.2
227	65.9	31.5	94.5

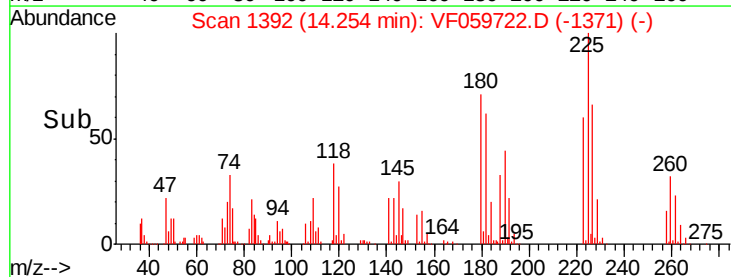
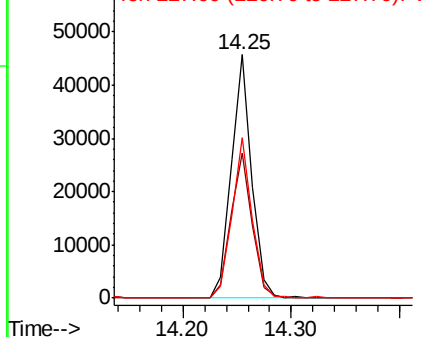


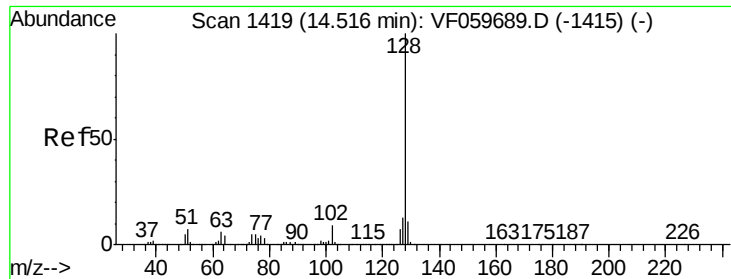
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95
Naphthalene
Concen: 20.575 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

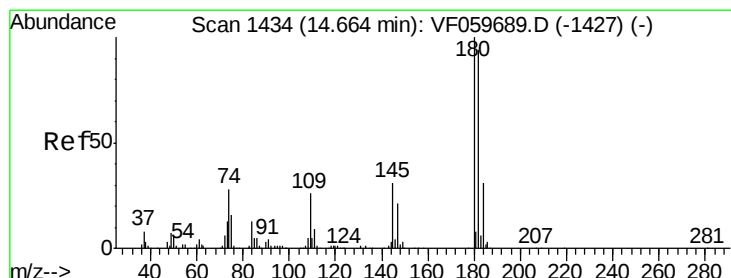
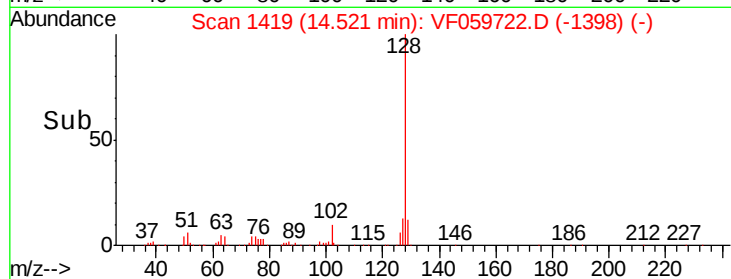
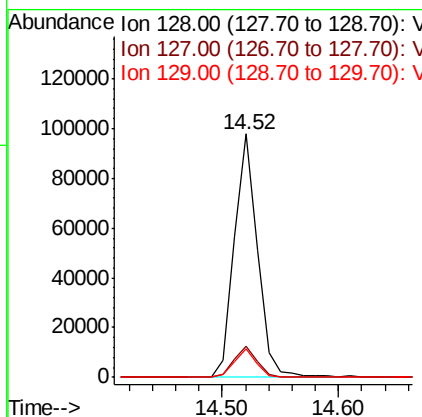
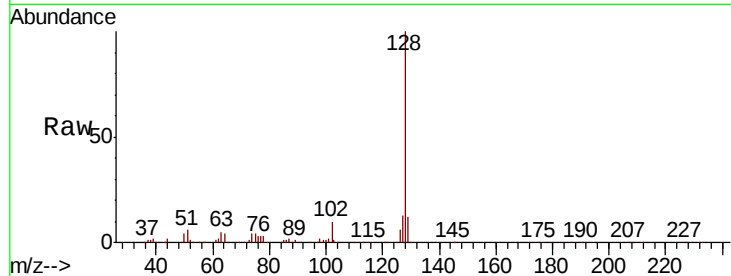
Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.0	15.0
129	11.9	8.6	13.0

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 22.082 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VF059722.D
Acq: 31 Jul 2018 21:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.9	47.2	141.6
145	31.8	15.6	46.7

