

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF073118\
 Data File : VF059702.D
 Acq On : 31 Jul 2018 11:56
 Operator : VA/AP
 Sample : VF0731SBS01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 83 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Manual Integrations
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 8/1/2018 2:08:25 PM

Quant Time: Jul 31 13:17:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 05:19:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	203658	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	290352	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	323224	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	178176	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	179752	49.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.22%	
35) Dibromofluoromethane	4.29	113	148075	49.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.20%	
50) Toluene-d8	7.71	98	332727	47.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.62%	
62) 4-Bromofluorobenzene	11.51	95	176880	45.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.86%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.98	85	2666	Below Cal	#	59
3) Chloromethane	1.08	50	8054	2.094	ug/l #	79
4) Vinyl Chloride	1.15	62	10506	5.027	ug/l	93
5) Bromomethane	1.33	94	13977	10.140	ug/l	93
6) Chloroethane	1.42	64	12268	12.742	ug/l #	82
7) Trichlorofluoromethane	1.54	101	61141m	16.076	ug/l	
8) Diethyl Ether	1.69	74	10452	16.072	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.90	101	40697	20.431	ug/l	93
10) Methyl Iodide	1.96	142	58825	18.597	ug/l	94
11) Tert butyl alcohol	2.67	59	14270	95.794	ug/l #	75
12) 1,1-Dichloroethene	1.84	96	30125	19.101	ug/l	97
13) Acrolein	2.09	56	4568	71.361	ug/l	95
14) Allyl chloride	2.19	41	52792	20.965	ug/l	97
15) Acrylonitrile	3.06	53	25161	106.430	ug/l	98
16) Acetone	2.34	43	71272	108.258	ug/l	96
17) Carbon Disulfide	1.83	76	61477m	15.214	ug/l	
18) Methyl Acetate	2.44	43	19929	16.140	ug/l	99
19) Methyl tert-butyl Ether	2.53	73	94267	19.600	ug/l	99
20) Methylene Chloride	2.28	84	34061	19.377	ug/l #	80
21) trans-1,2-Dichloroethene	2.41	96	33532	22.906	ug/l	92
22) Diisopropyl ether	2.92	45	113495	21.313	ug/l	97
23) Vinyl Acetate	3.33	43	297269	108.581	ug/l	98
24) 1,1-Dichloroethane	3.01	63	78566	21.236	ug/l	99
25) 2-Butanone	4.51	43	73631	100.216	ug/l #	72
26) 2,2-Dichloropropane	3.75	77	60675	23.006	ug/l	99
27) cis-1,2-Dichloroethene	3.63	96	41532	20.964	ug/l	93
28) Bromochloromethane	3.88	49	31636	21.987	ug/l #	81
29) Tetrahydrofuran	4.25	42	29120	103.122	ug/l	98
30) Chloroform	4.03	83	114832	21.992	ug/l	98
31) Cyclohexane	3.85	56	41982	21.025	ug/l #	89
32) 1,1,1-Trichloroethane	4.27	97	87831	21.686	ug/l	98
36) 1,1-Dichloropropene	4.45	75	71151	21.992	ug/l	97
37) Ethyl Acetate	4.29	43	33667	20.500	ug/l #	60
38) Carbon Tetrachloride	4.17	117	108438	23.490	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	55863	22.543	ug/l	93
40) Benzene	4.81	78	124753	21.276	ug/l	97
41) Methacrylonitrile	4.92	41	16190	20.493	ug/l #	85
42) 1,2-Dichloroethane	5.11	62	85399	20.811	ug/l	100
43) Isopropyl Acetate	7.12	43	32959	18.984	ug/l #	83
44) Trichloroethene	5.68	130	49966	22.514	ug/l	97
45) 1,2-Dichloropropane	6.40	63	33395	21.566	ug/l	93
46) Dibromomethane	6.25	93	29027	19.744	ug/l	93
47) Bromodichloromethane	6.54	83	83652	20.895	ug/l	97
48) Methyl methacrylate	6.87	41	24886	19.057	ug/l	88
49) 1,4-Dioxane	6.87	88	3586	401.740	ug/l #	75
51) 4-Methyl-2-Pentanone	8.41	43	129232	97.851	ug/l	93
52) Toluene	7.78	92	94969	22.899	ug/l	94
53) t-1,3-Dichloropropene	8.43	75	72451	20.856	ug/l	90
54) cis-1,3-Dichloropropene	7.46	75	76614	22.769	ug/l	94
55) 1,1,2-Trichloroethane	8.63	97	31796	20.022	ug/l	88
56) Ethyl methacrylate	8.76	69	32961	19.902	ug/l	92
57) 1,3-Dichloropropane	9.00	76	56164	20.616	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.78	63	20759	108.564	ug/l	100
59) 2-Hexanone	9.63	43	104320	98.568	ug/l	95
60) Dibromochloromethane	8.86	129	55770	19.902	ug/l	100
61) 1,2-Dibromoethane	9.14	107	38759	20.902	ug/l	98
64) Tetrachloroethene	8.31	164	50411	20.496	ug/l	96
65) Chlorobenzene	9.93	112	129219	19.985	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.07	131	60332	19.986	ug/l	91
67) Ethyl Benzene	10.04	91	234181	20.933	ug/l	96
68) m/p-Xylenes	10.27	106	162792	41.995	ug/l	94
69) o-Xylene	10.83	106	83050	20.148	ug/l	96
70) Styrene	10.90	104	124687	19.967	ug/l	96
71) Bromoform	10.89	173	34897	17.741	ug/l #	93
73) Isopropylbenzene	11.23	105	275306	23.549	ug/l	95
74) N-amyl acetate	11.46	43	58487	19.829	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.79	83	45168	20.524	ug/l	98
76) 1,2,3-Trichloropropane	11.89	75	41696	22.281	ug/l	90
77) Bromobenzene	11.59	156	67626	22.152	ug/l	96
78) n-propylbenzene	11.69	91	322130	24.306	ug/l	100
79) 2-Chlorotoluene	11.81	91	197877	23.950	ug/l	100
80) 1,3,5-Trimethylbenzene	11.91	105	255440	25.122	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.96	75	21922	28.287	ug/l	86
82) 4-Chlorotoluene	11.99	91	213654	24.471	ug/l	98
83) tert-Butylbenzene	12.21	119	244218	23.270	ug/l	98
84) 1,2,4-Trimethylbenzene	12.29	105	253245	24.613	ug/l	95
85) sec-Butylbenzene	12.39	105	324806	24.445	ug/l	98
86) p-Isopropyltoluene	12.54	119	277277	23.692	ug/l	97
87) 1,3-Dichlorobenzene	12.56	146	128825	22.650	ug/l	96
88) 1,4-Dichlorobenzene	12.65	146	125886	22.715	ug/l	95
89) n-Butylbenzene	12.92	91	265563	23.875	ug/l	97
90) Hexachloroethane	12.99	117	71645	24.297	ug/l	94
91) 1,2-Dichlorobenzene	13.02	146	123912	23.059	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	10103	18.779	ug/l	92

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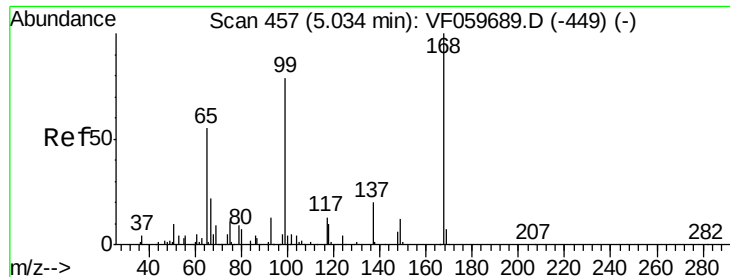
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	97892	22.601	ug/l	98
94) Hexachlorobutadiene	14.25	225	64606	22.107	ug/l	99
95) Naphthalene	14.52	128	159444	20.756	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	90107	21.221	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion:168 Resp: 203658

Ion Ratio Lower Upper

168 100

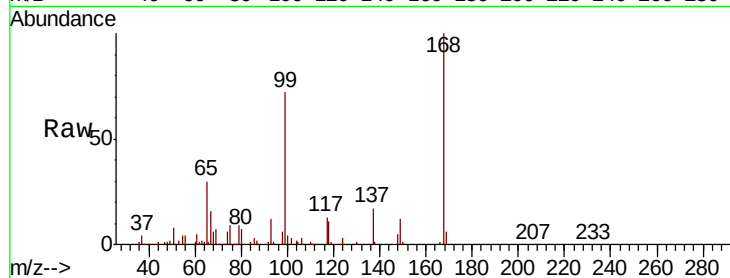
99 72.4 63.3 94.9

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

60000

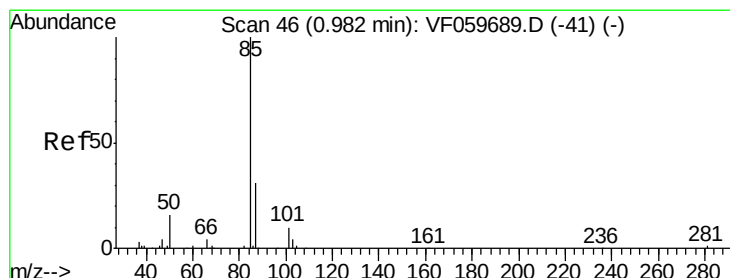
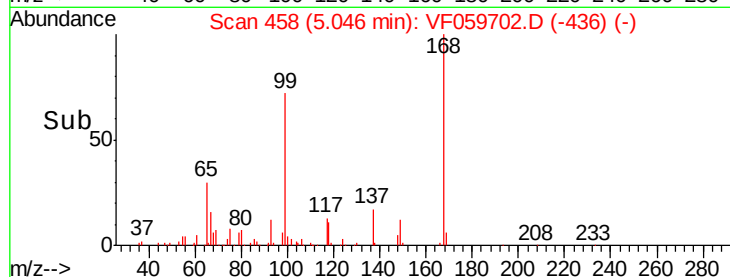
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 46

Delta R.T. 0.00 min

Lab File: VF059702.D

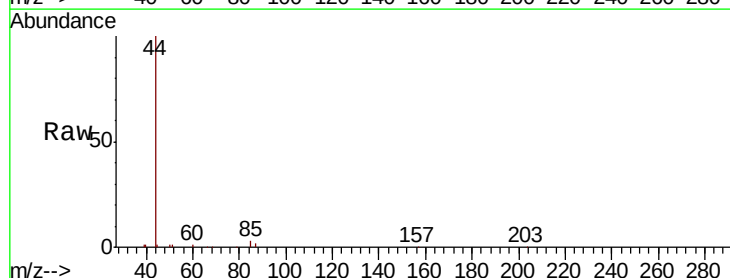
Acq: 31 Jul 2018 11:56

Tgt Ion: 85 Resp: 2666

Ion Ratio Lower Upper

85 100

87 52.8 15.3 45.8#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1200

1000

800

600

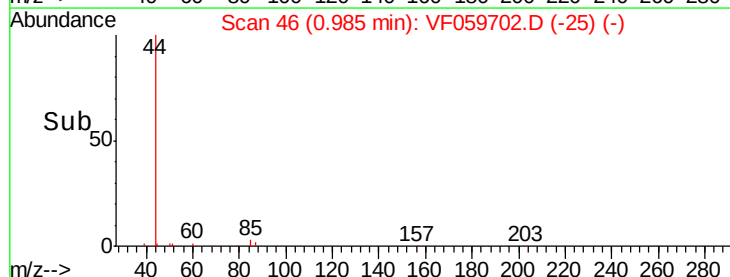
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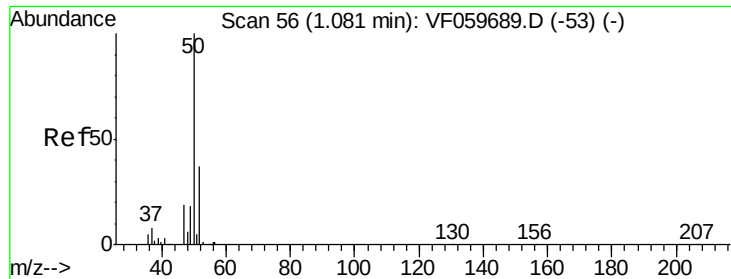
200

0

Time-->

0.95 1.00 1.05





#3

Chloromethane

Concen: 2.094 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion: 50 Resp: 8054

Ion Ratio Lower Upper

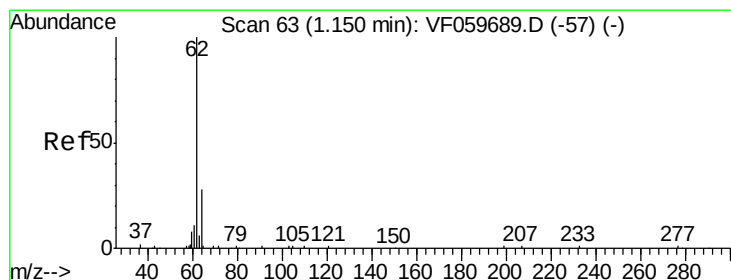
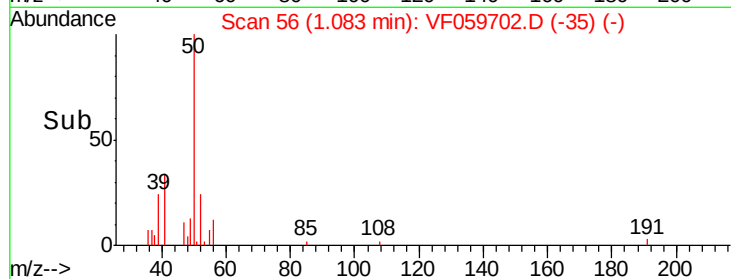
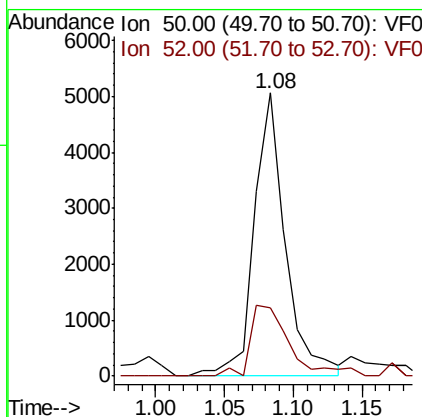
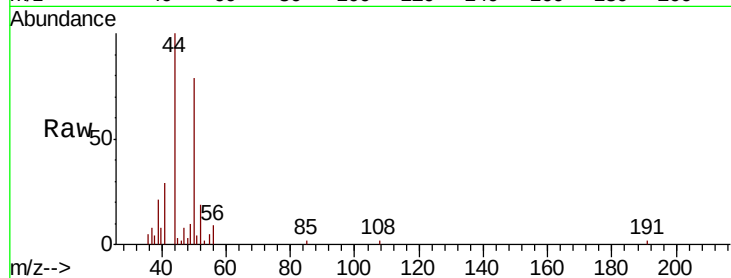
50 100

52 24.0 29.1 43.7#

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#4

Vinyl Chloride

Concen: 5.027 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF059702.D

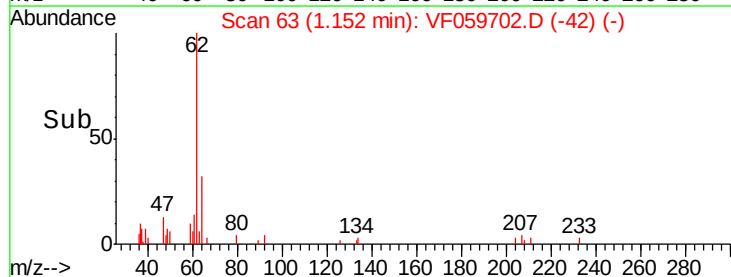
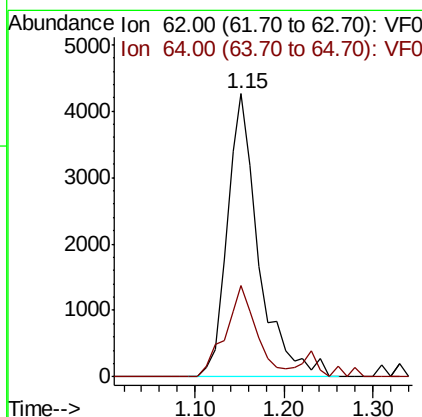
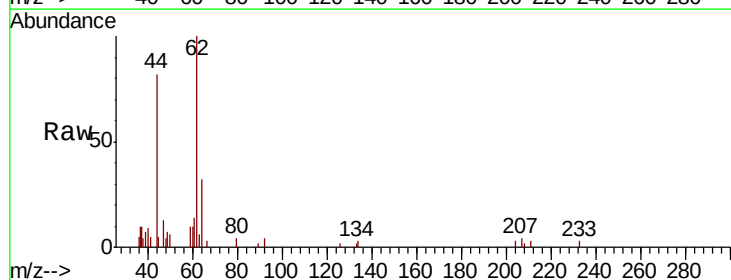
Acq: 31 Jul 2018 11:56

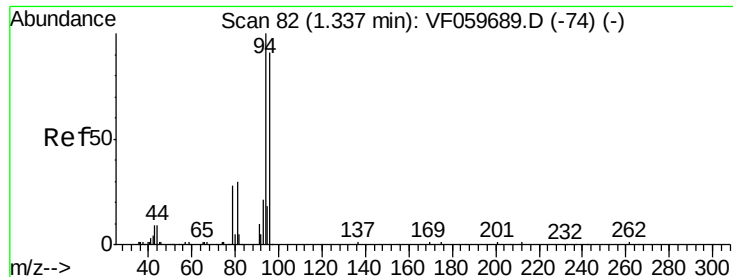
Tgt Ion: 62 Resp: 10506

Ion Ratio Lower Upper

62 100

64 32.1 22.6 33.8





#5

Bromomethane

Concen: 10.140 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion: 94 Resp: 13977

Ion Ratio Lower Upper

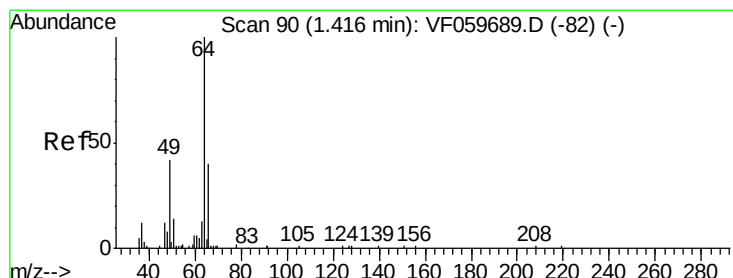
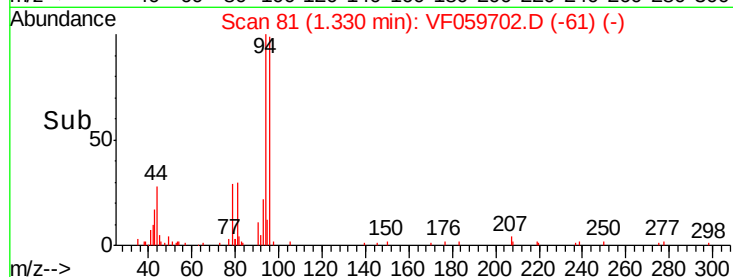
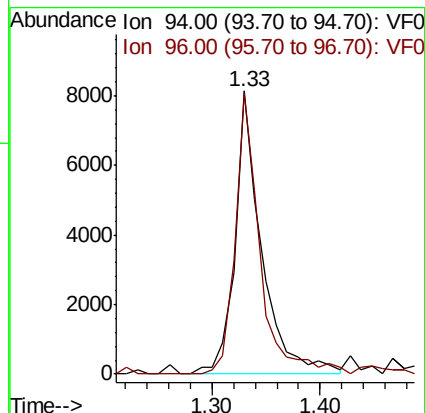
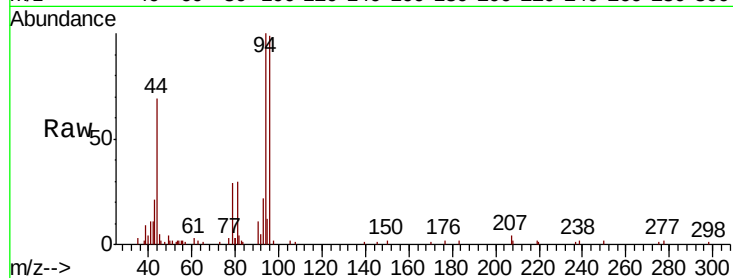
94 100

96 99.1 73.6 110.4

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#6

Chloroethane

Concen: 12.742 ug/l

RT: 1.42 min Scan# 90

Delta R.T. 0.00 min

Lab File: VF059702.D

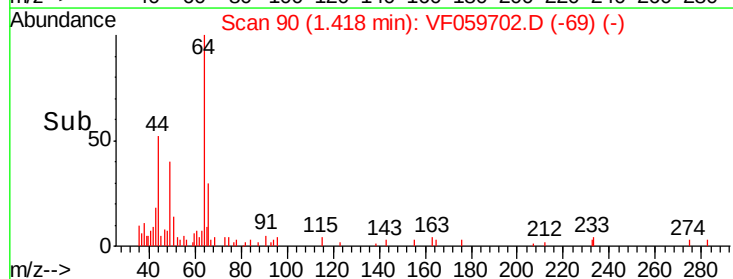
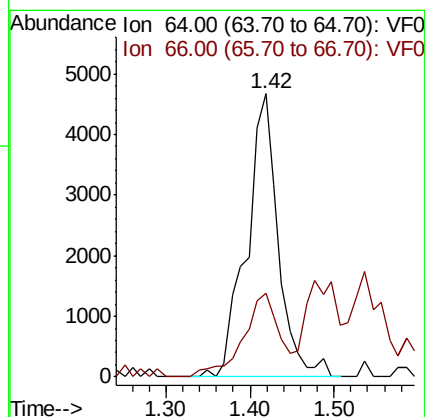
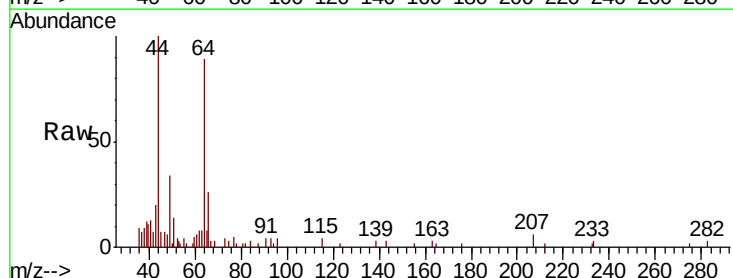
Acq: 31 Jul 2018 11:56

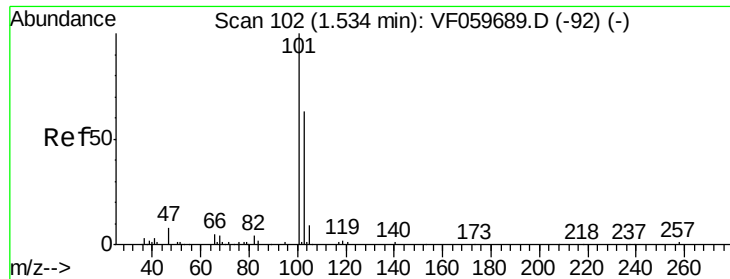
Tgt Ion: 64 Resp: 12268

Ion Ratio Lower Upper

64 100

66 29.4 32.6 49.0#





#7

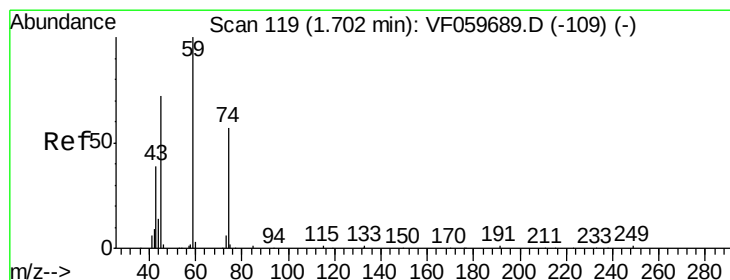
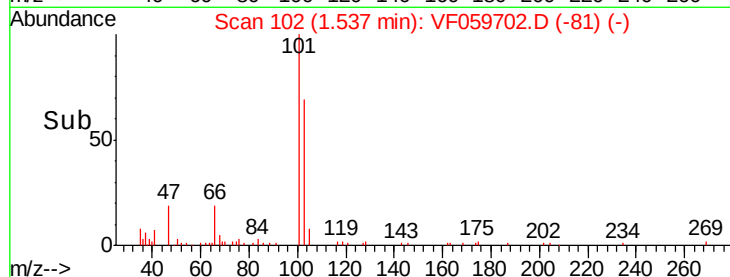
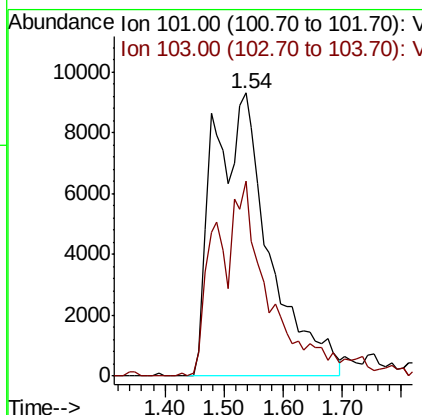
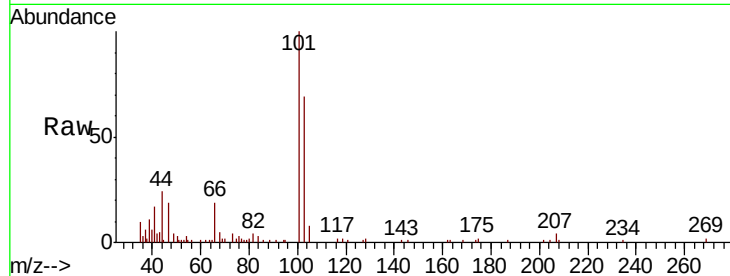
Trichlorofluoromethane
Concen: 16.076 ug/l m
RT: 1.54 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF059702.D
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	68.9	50.8	76.2

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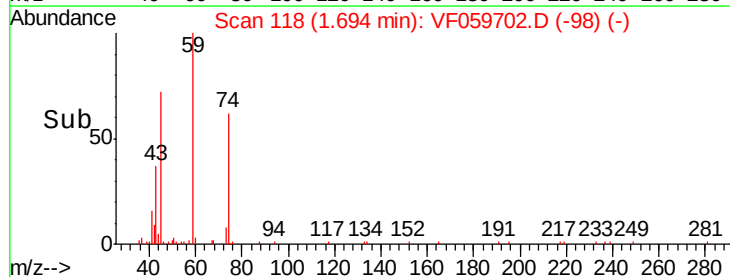
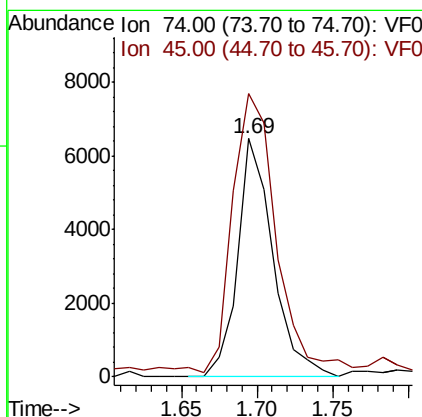
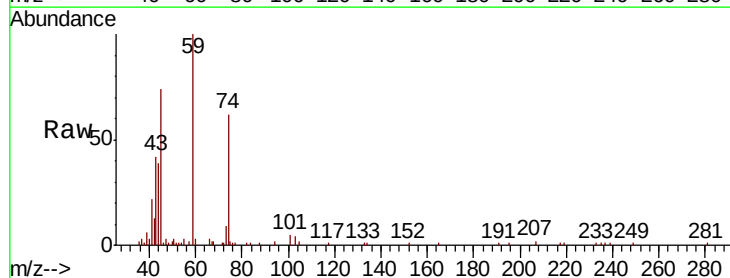
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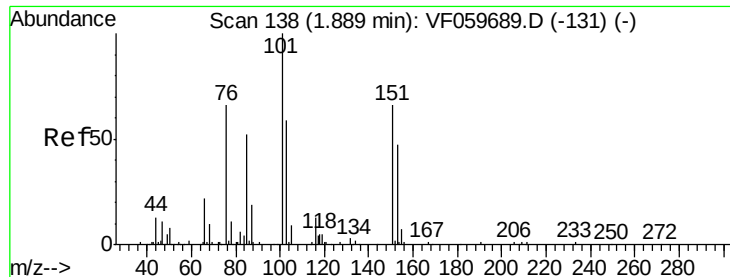


#8

Diethyl Ether
Concen: 16.072 ug/l
RT: 1.69 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
74	100		
45	118.7	62.7	188.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.431 ug/l

RT: 1.90 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

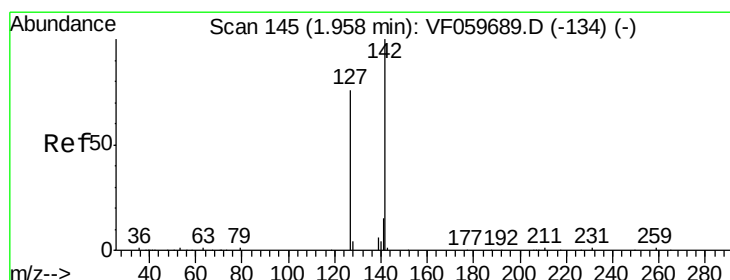
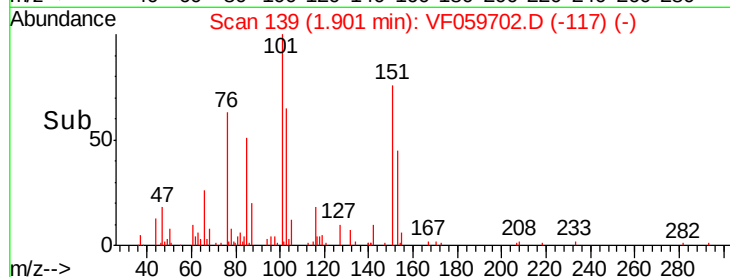
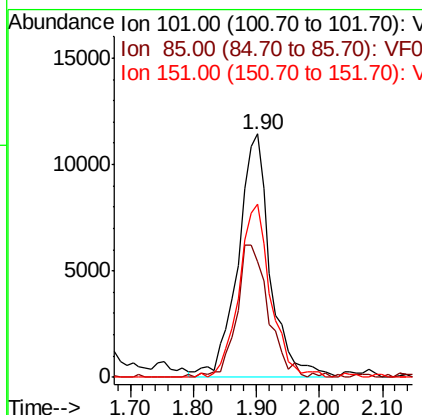
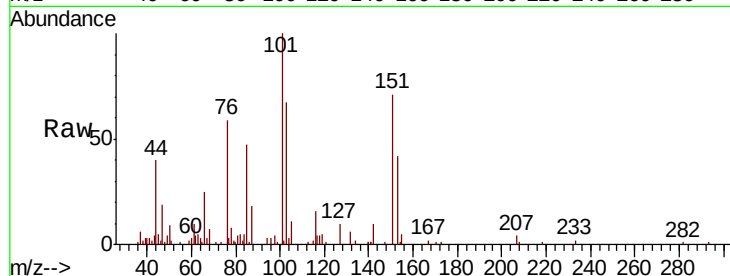
ClientSampleId :

VF0731SBS01

Tot Ion:	101	Resp:	40697
Ion Ratio	Lower	Upper	
101	100		
85	47.3	40.7	61.1
151	70.9	51.4	77.2

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#10

Methyl Iodide

Concen: 18.597 ug/l

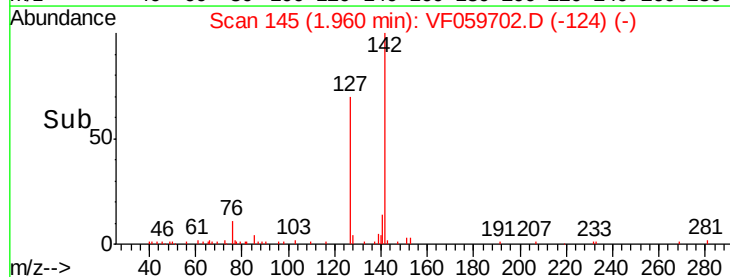
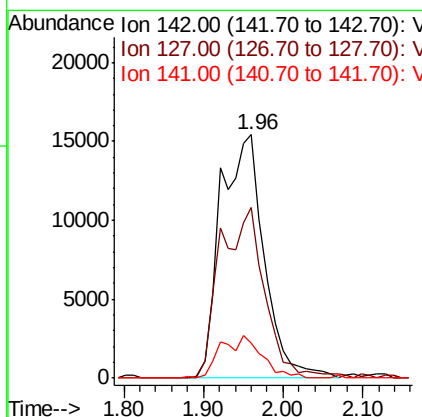
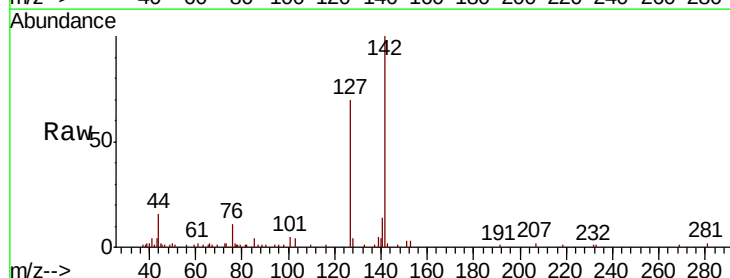
RT: 1.96 min Scan# 145

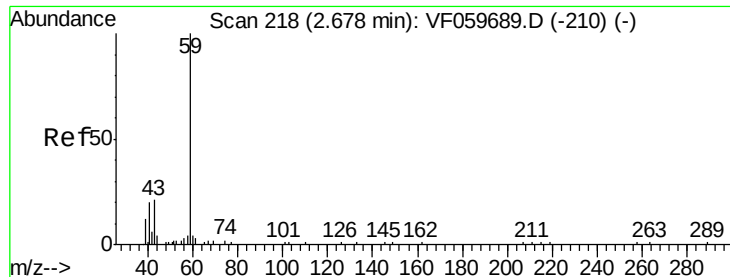
Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion:	142	Resp:	58825
Ion Ratio	Lower	Upper	
142	100		
127	70.1	60.6	91.0
141	14.3	12.0	18.0





#11

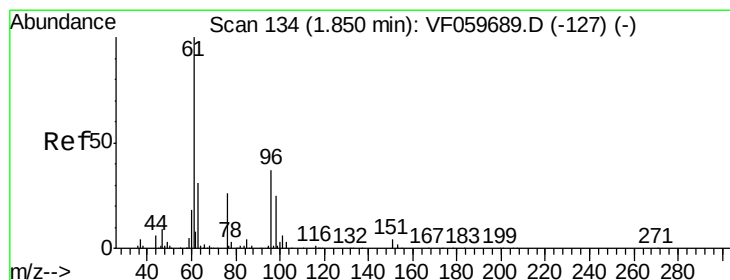
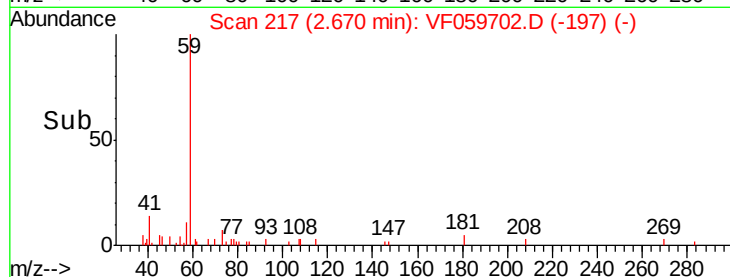
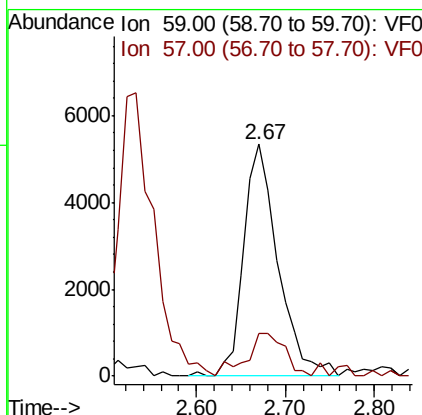
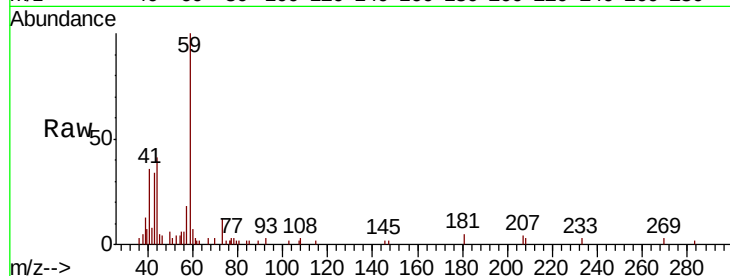
Tert butyl alcohol
 Concen: 95.794 ug/l
 RT: 2.67 min Scan# 217
 Delta R.T. -0.01 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	18.5	7.6	11.4#

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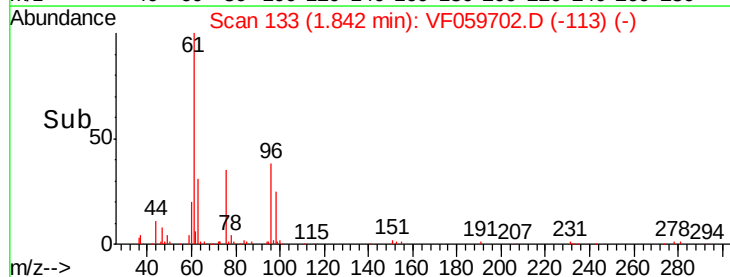
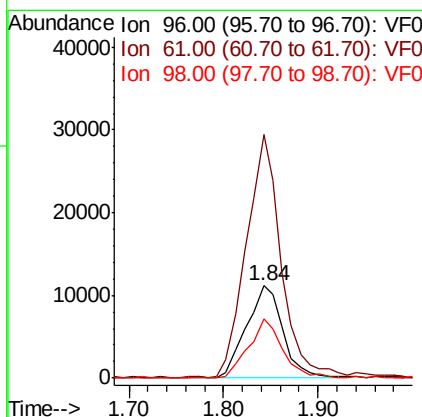
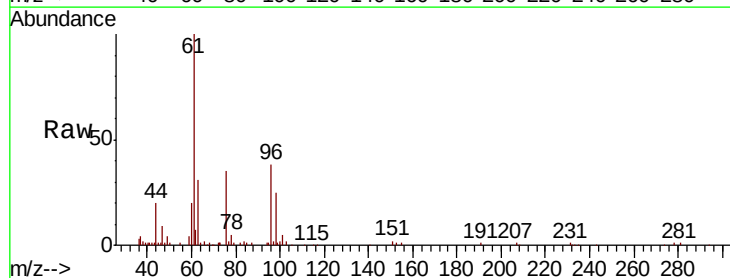
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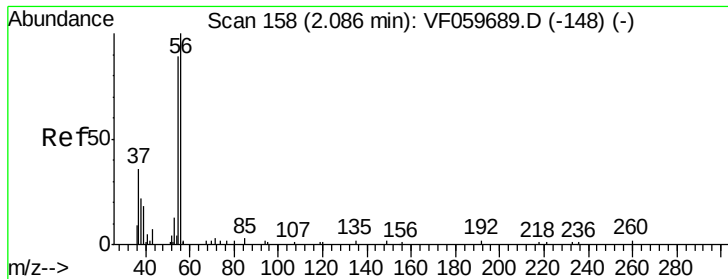


#12

1,1-Dichloroethene
 Concen: 19.101 ug/l
 RT: 1.84 min Scan# 133
 Delta R.T. -0.01 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	263.8	215.1	322.7
98	64.8	54.3	81.5





#13

Acrolein

Concen: 71.361 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion: 56 Resp: 4568

Ion Ratio Lower Upper

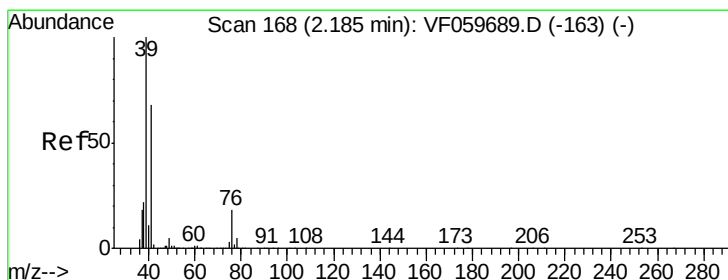
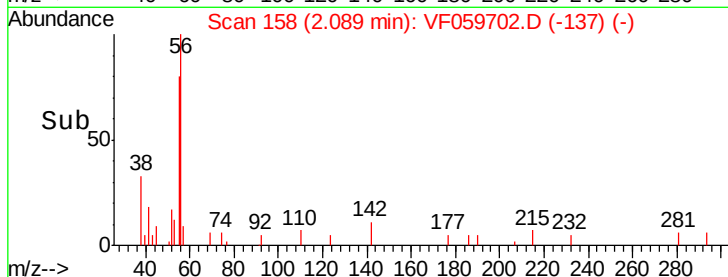
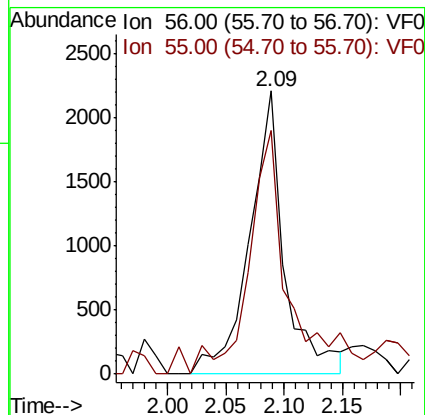
56 100

55 86.3 73.2 109.8

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#14

Allyl chloride

Concen: 20.965 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

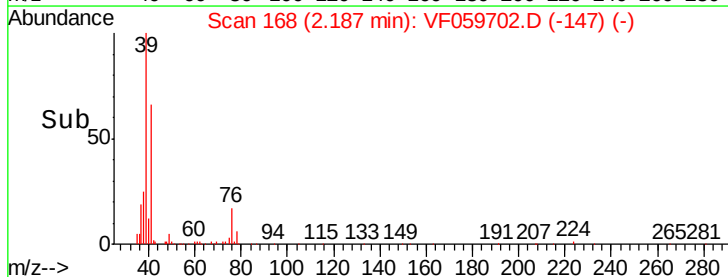
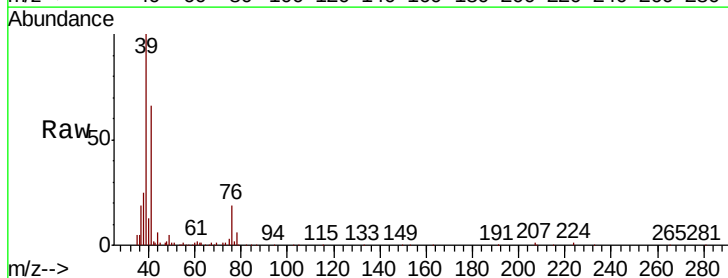
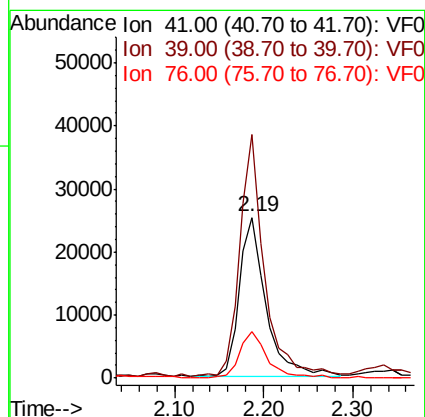
Tgt Ion: 41 Resp: 52792

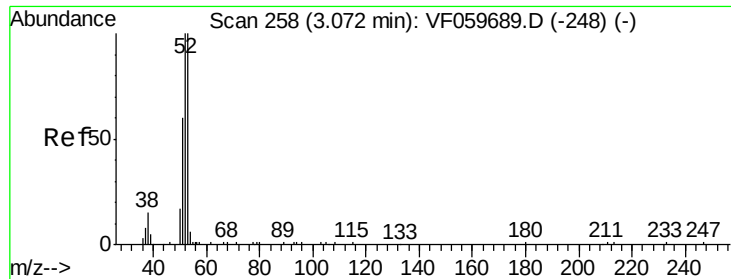
Ion Ratio Lower Upper

41 100

39 151.4 118.1 177.1

76 29.1 22.0 33.0





#15

Acrylonitrile

Concen: 106.430 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

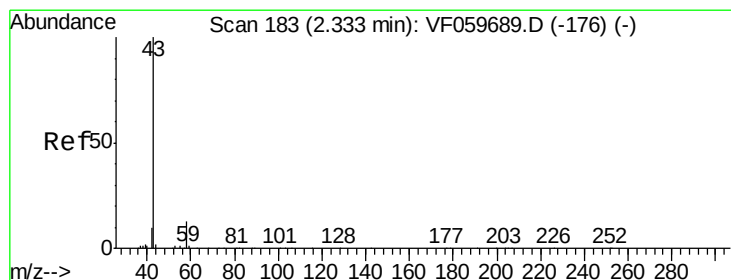
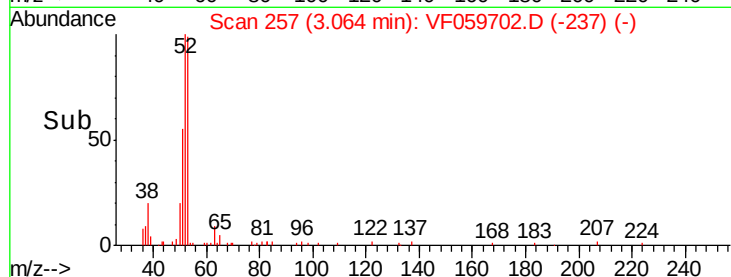
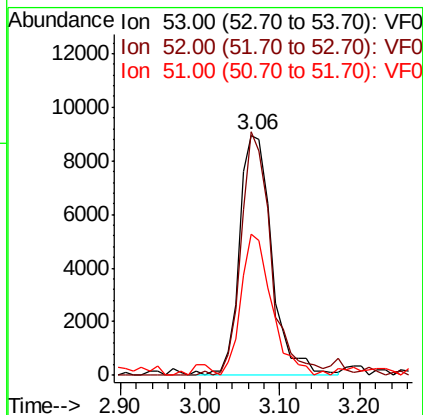
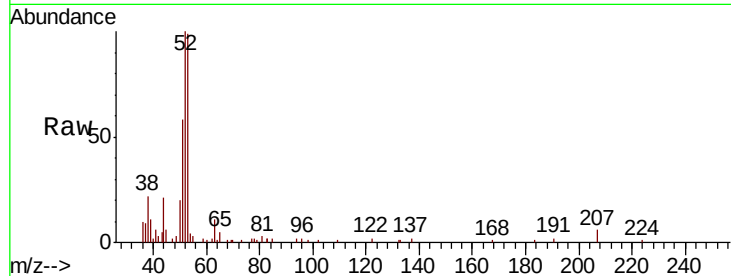
ClientSampleId :

VF0731SBS01

Tot Ion:	53	Resp:	25161
Ion	Ratio	Lower	Upper
53	100		
52	101.4	80.3	120.5
51	58.8	49.4	74.0

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#16

Acetone

Concen: 108.258 ug/l

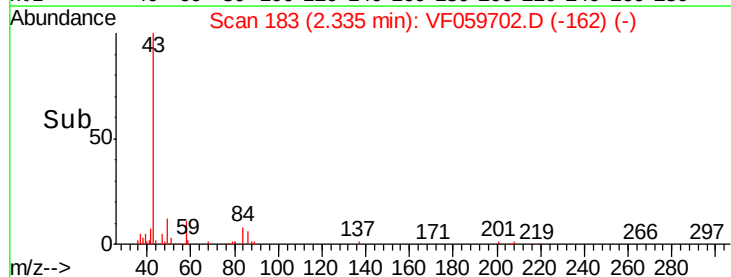
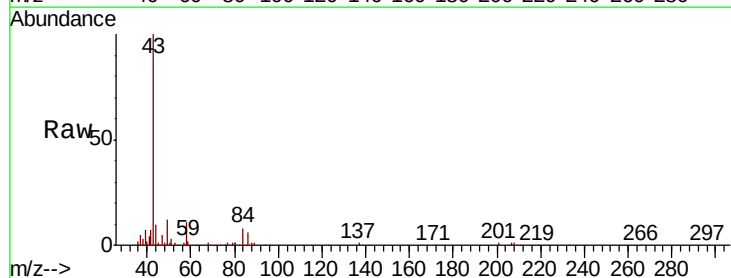
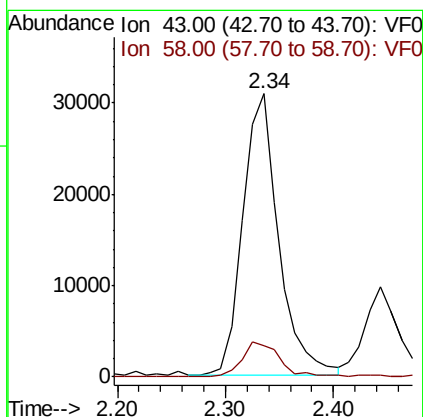
RT: 2.34 min Scan# 183

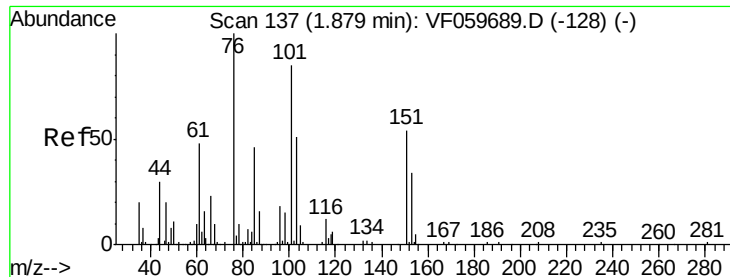
Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion:	43	Resp:	71272
Ion	Ratio	Lower	Upper
43	100		
58	11.2	10.1	15.1





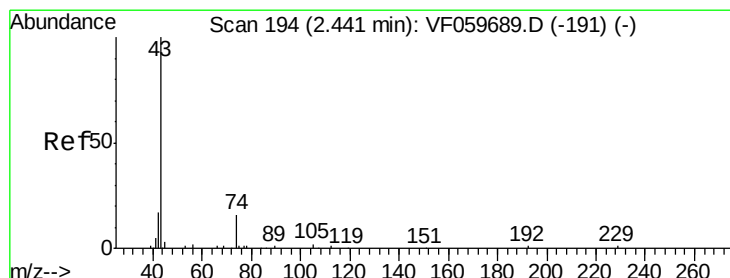
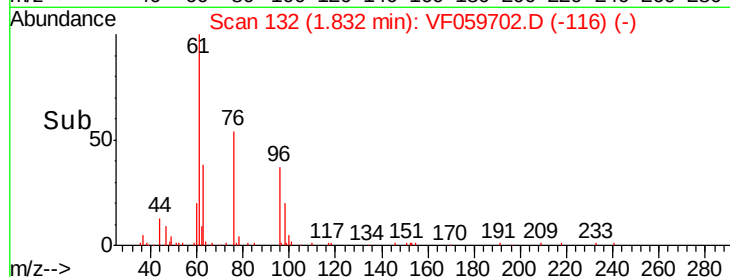
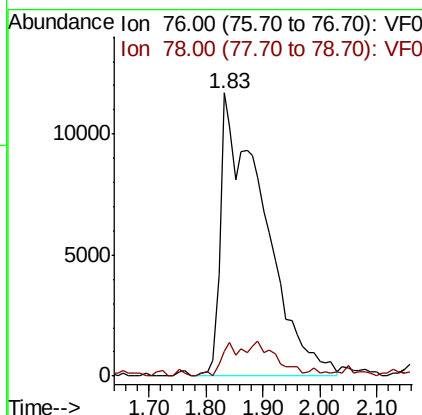
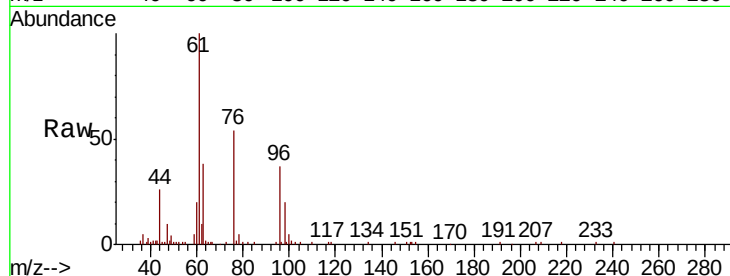
#17
Carbon Disulfide
Concen: 15.214 ug/l m
RT: 1.83 min Scan# 132
Delta R.T. -0.05 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion: 76 Resp: 61477
Ion Ratio Lower Upper
76 100
78 8.8 8.9 13.3#

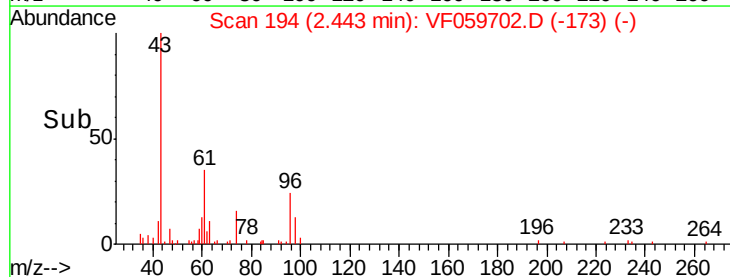
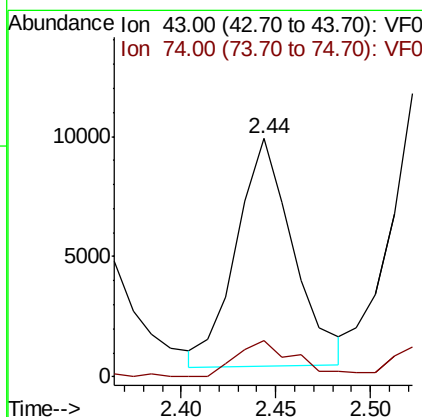
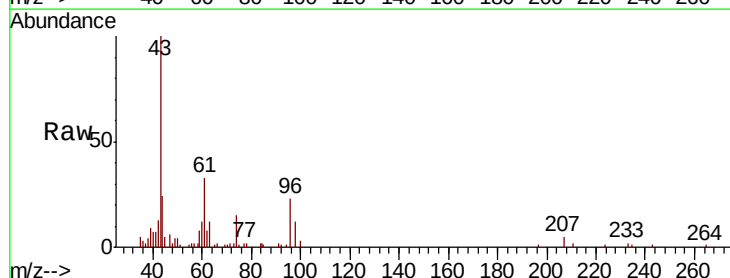
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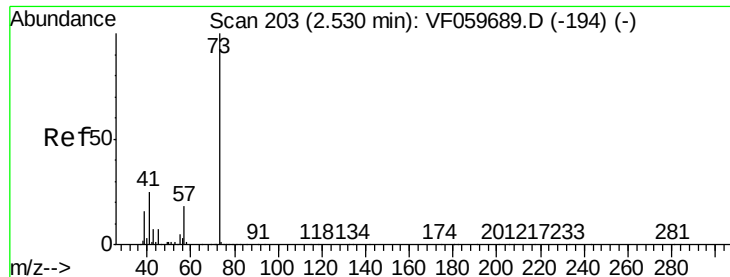
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#18
Methyl Acetate
Concen: 16.140 ug/l
RT: 2.44 min Scan# 194
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion: 43 Resp: 19929
Ion Ratio Lower Upper
43 100
74 15.2 11.8 17.6





#19

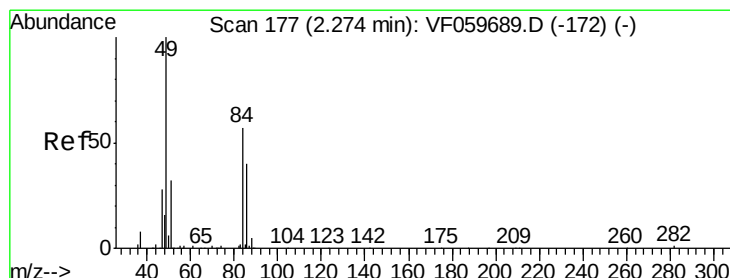
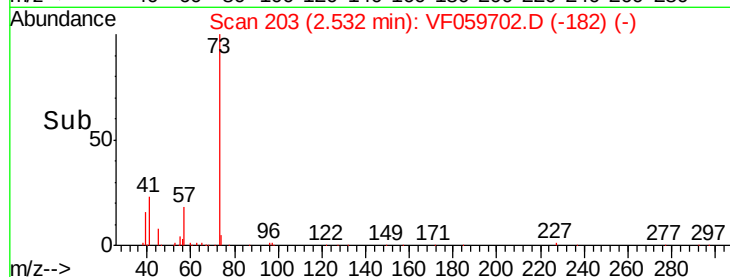
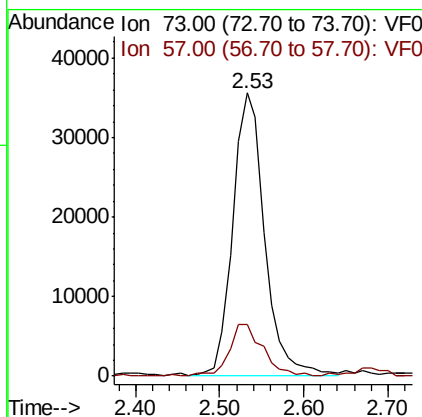
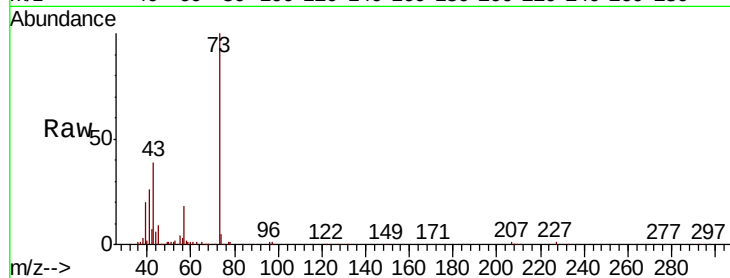
Methyl tert-butyl Ether
 Concen: 19.600 ug/l
 RT: 2.53 min Scan# 203
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.3	14.2	21.2

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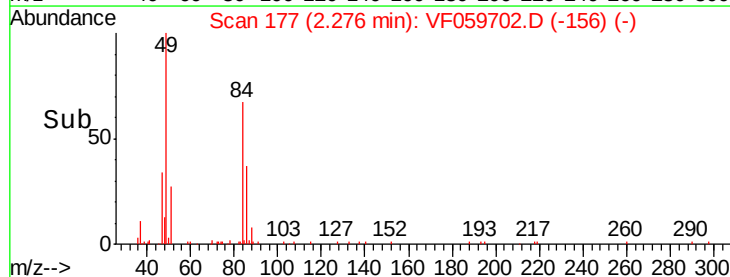
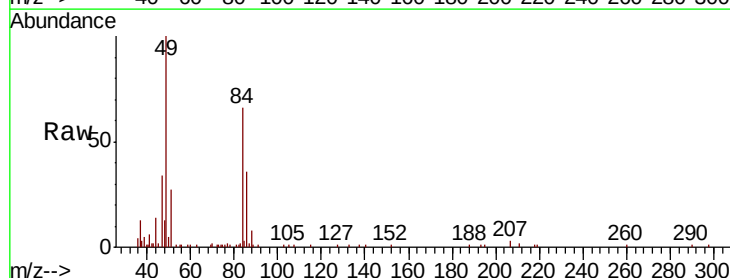
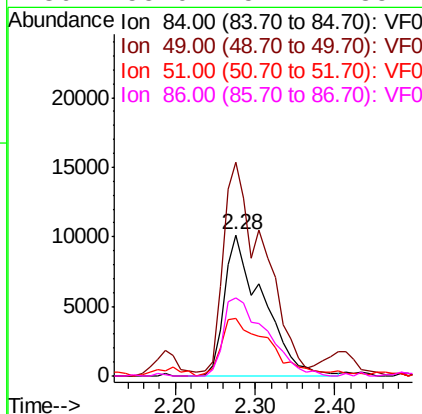
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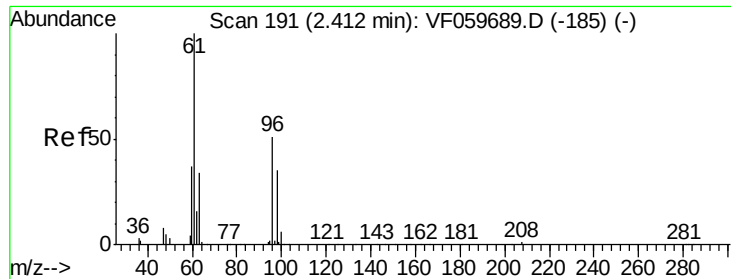


#20

Methylene Chloride
 Concen: 19.377 ug/l
 RT: 2.28 min Scan# 177
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
84	100		
49	151.5	142.2	213.4
51	40.8	46.2	69.2#
86	55.0	57.1	85.7#





#21

trans-1,2-Dichloroethene

Concen: 22.906 ug/l

RT: 2.41 min Scan# 191

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

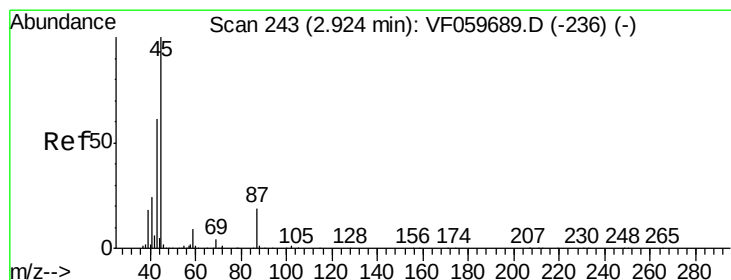
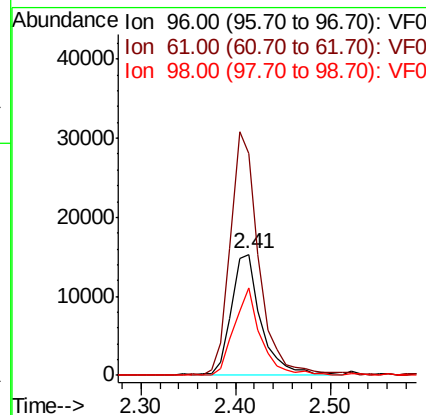
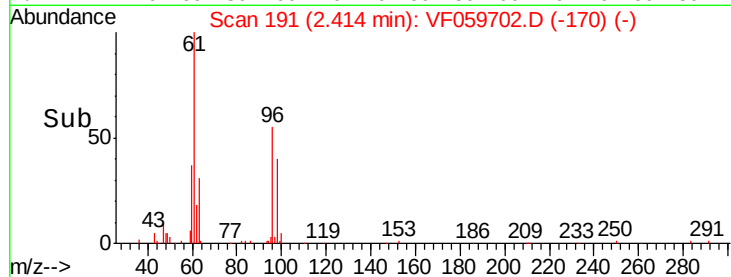
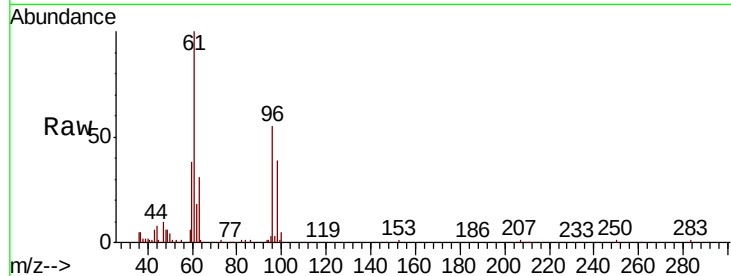
ClientSampleId :

VF0731SBS01

Tot Ion:	96	Resp:	33532
Ion	Ratio	Lower	Upper
96	100		
61	183.3	157.4	236.0
98	72.3	55.0	82.4

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#22

Diisopropyl ether

Concen: 21.313 ug/l

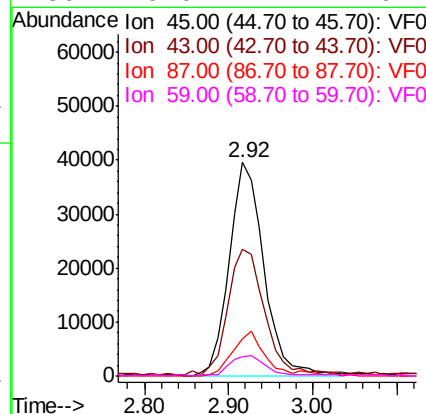
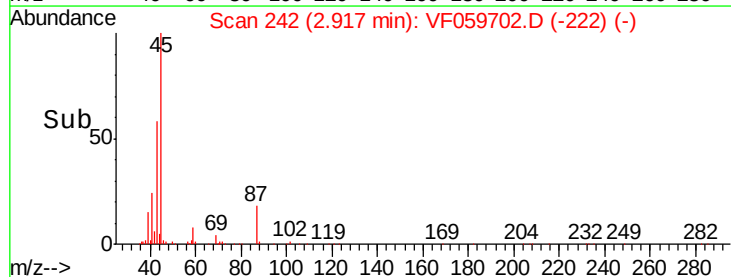
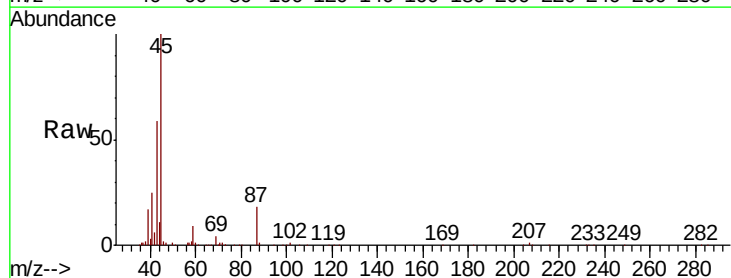
RT: 2.92 min Scan# 242

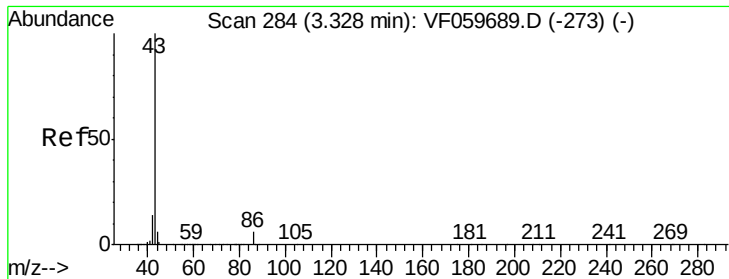
Delta R.T. -0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion:	45	Resp:	113495
Ion	Ratio	Lower	Upper
45	100		
43	59.2	49.3	73.9
87	17.6	15.3	22.9
59	9.0	7.1	10.7





#23

Vinyl Acetate

Concen: 108.581 ug/l

RT: 3.33 min Scan# 284

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion: 43 Resp: 297269

Ion Ratio Lower Upper

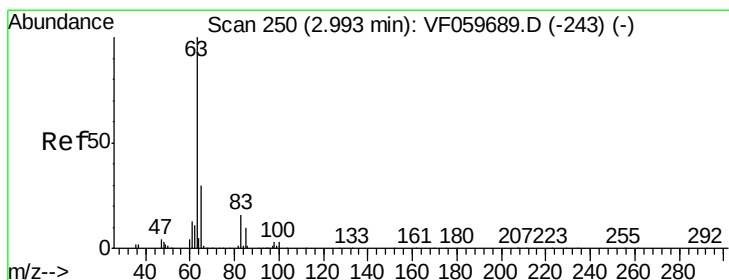
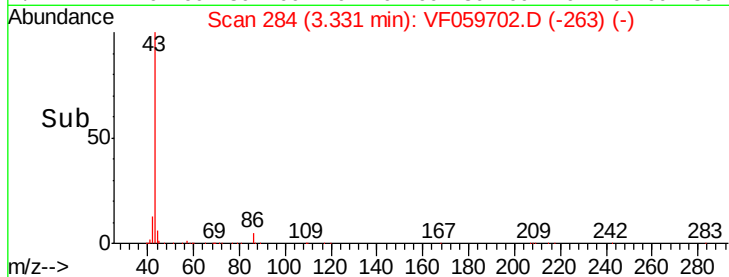
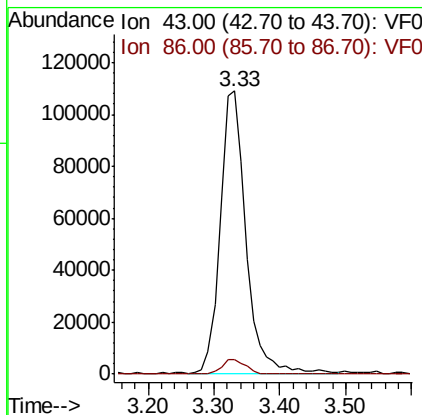
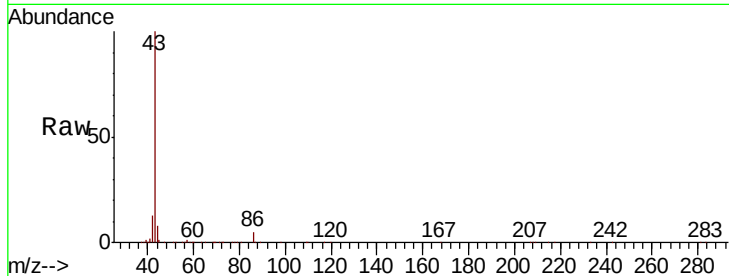
43 100

86 5.1 4.6 6.8

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#24

1,1-Dichloroethane

Concen: 21.236 ug/l

RT: 3.01 min Scan# 251

Delta R.T. 0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

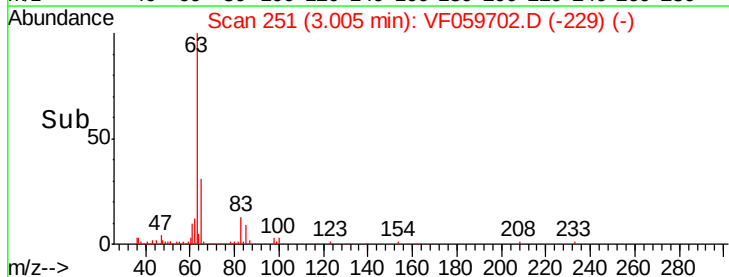
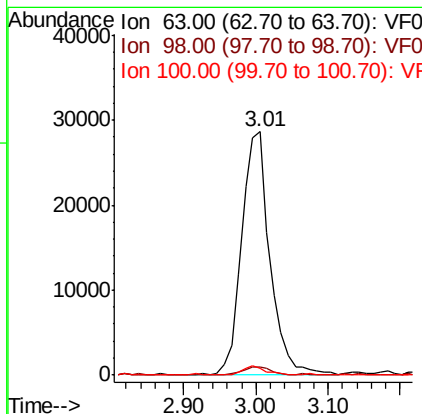
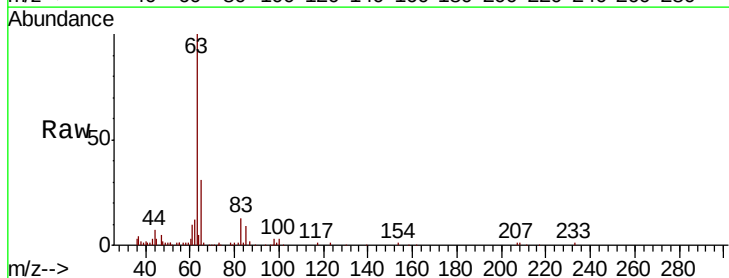
Tgt Ion: 63 Resp: 78566

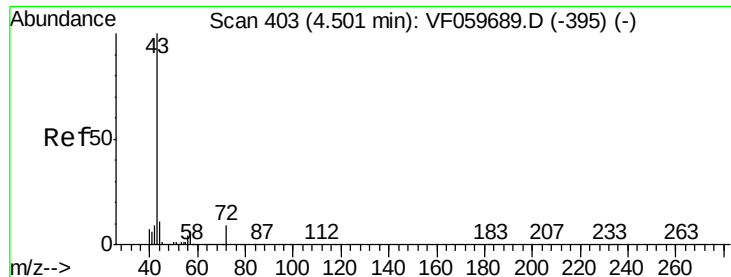
Ion Ratio Lower Upper

63 100

98 3.5 1.4 4.2

100 2.9 1.6 4.7





#25

2-Butanone

Concen: 100.216 ug/l

RT: 4.51 min Scan# 404

Delta R.T. 0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion: 43 Resp: 73631

Ion Ratio Lower Upper

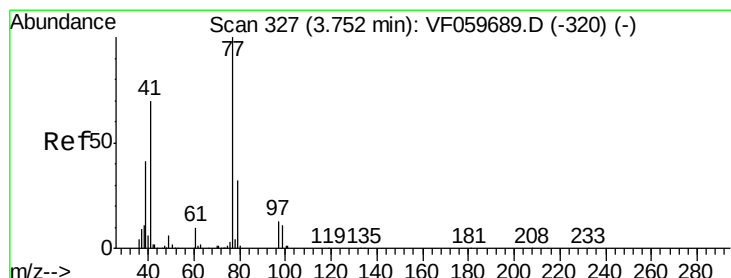
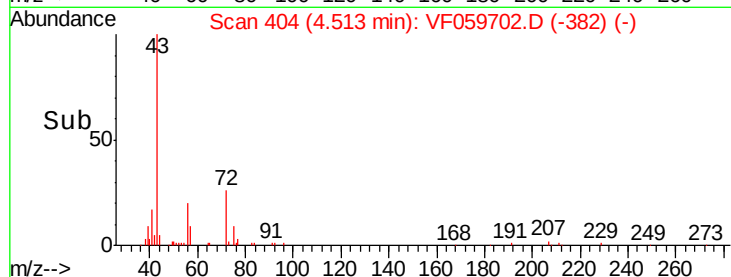
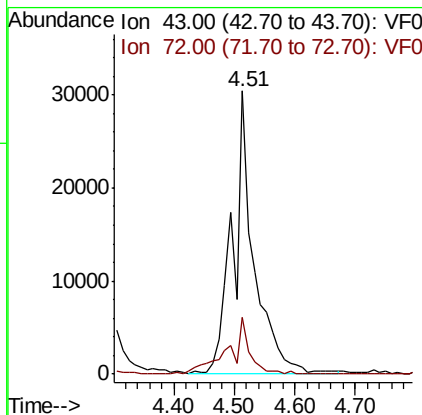
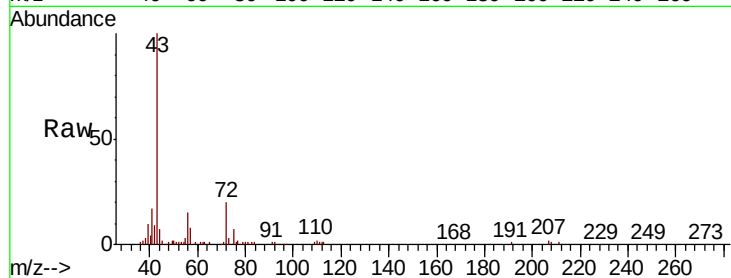
43 100

72 20.0 7.7 11.5#

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#26

2,2-Dichloropropane

Concen: 23.006 ug/l

RT: 3.75 min Scan# 327

Delta R.T. 0.00 min

Lab File: VF059702.D

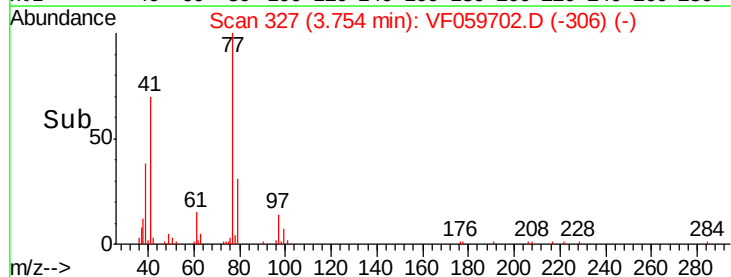
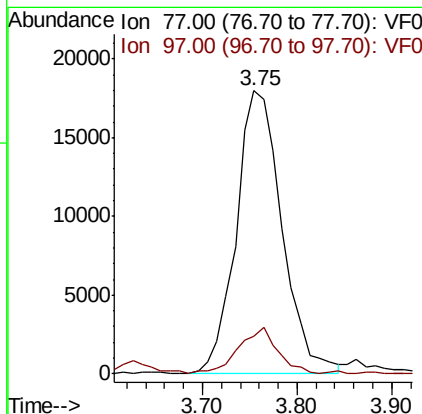
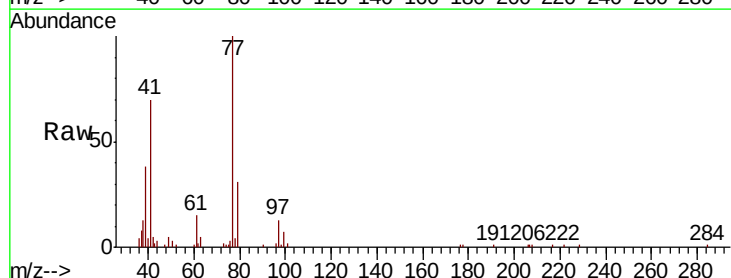
Acq: 31 Jul 2018 11:56

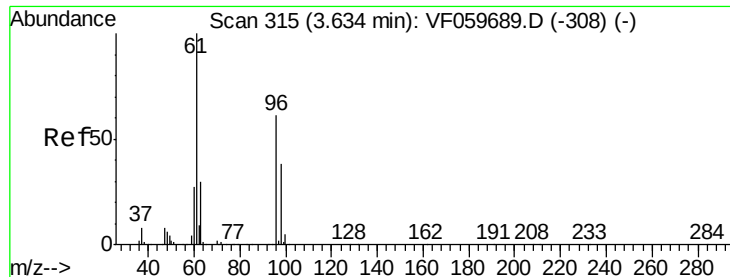
Tgt Ion: 77 Resp: 60675

Ion Ratio Lower Upper

77 100

97 13.4 6.8 20.4





#27

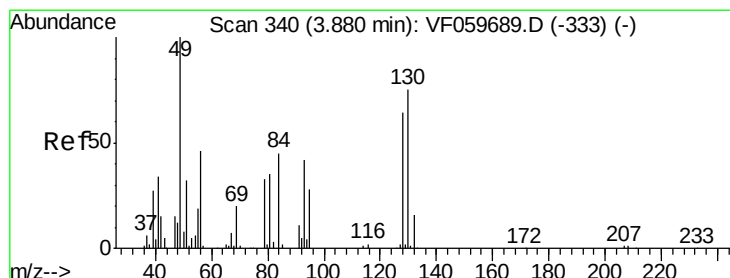
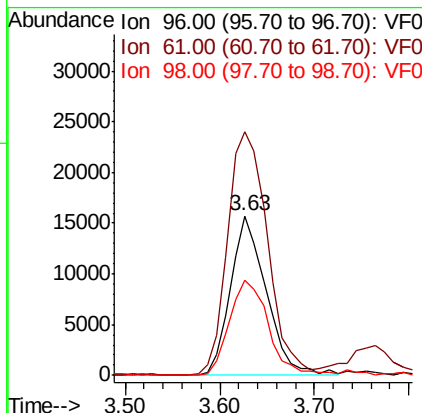
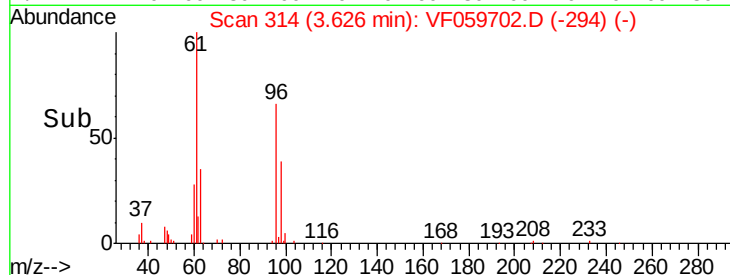
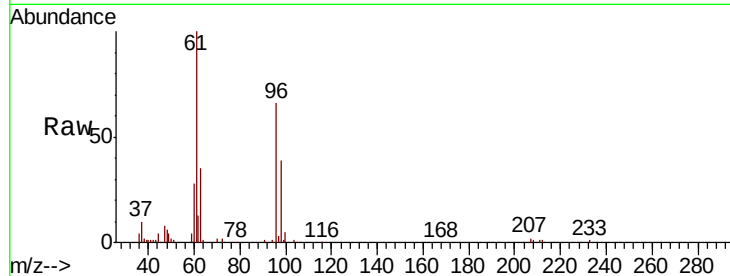
cis-1,2-Dichloroethene
Concen: 20.964 ug/l
RT: 3.63 min Scan# 314
Delta R.T. -0.01 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	152.6	0.0	326.8
98	59.2	0.0	125.2

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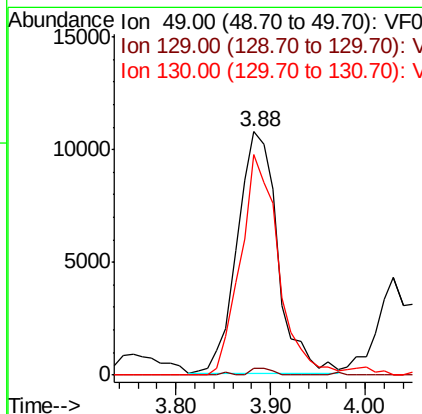
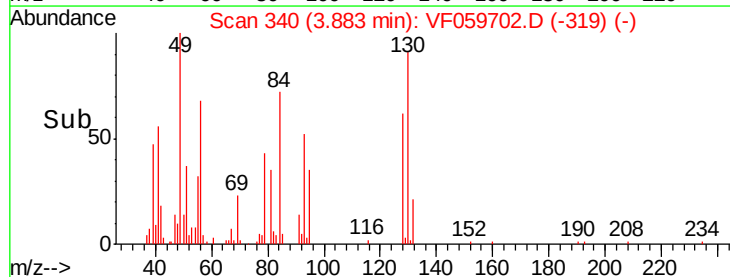
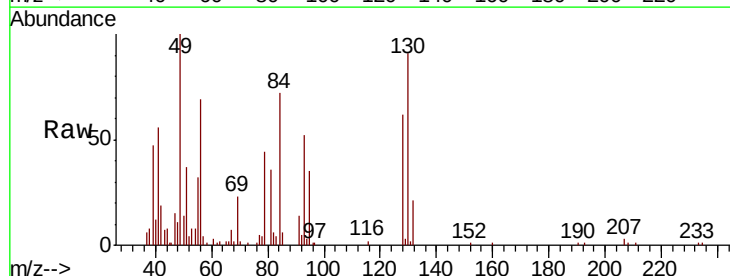
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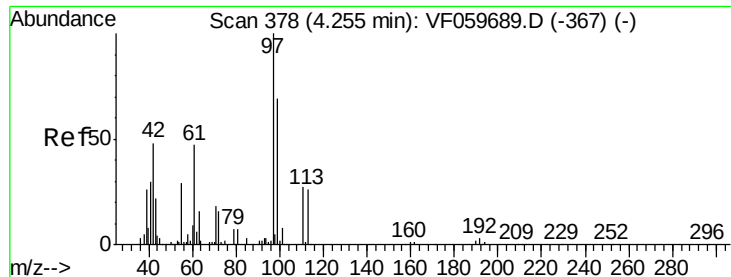


#28

Bromochloromethane
Concen: 21.987 ug/l
RT: 3.88 min Scan# 340
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	4.8
130	90.7	59.6	89.4#





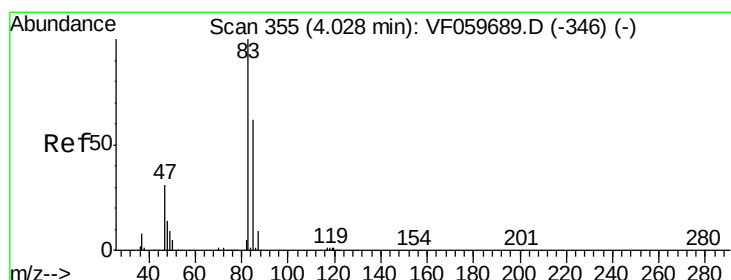
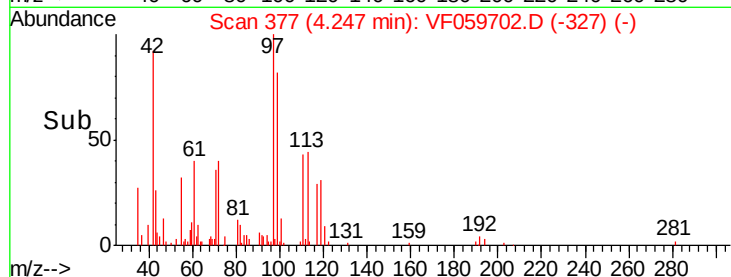
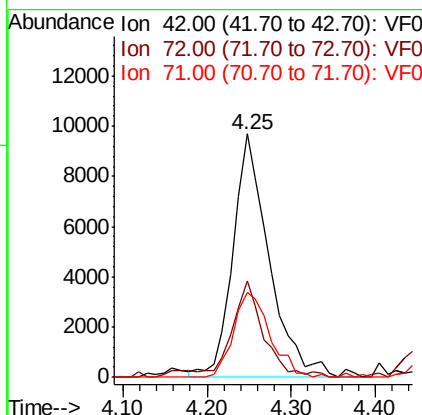
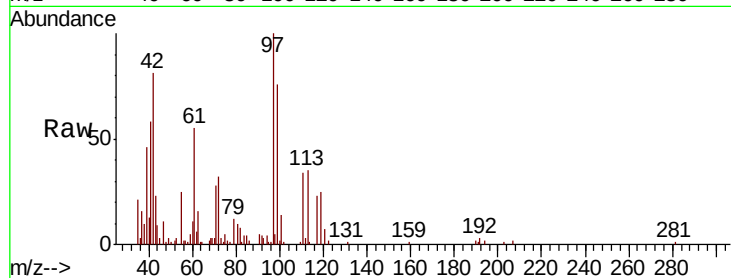
#29
Tetrahydrofuran
Concen: 103.122 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.01 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.4	27.0	40.6
71	35.1	29.7	44.5

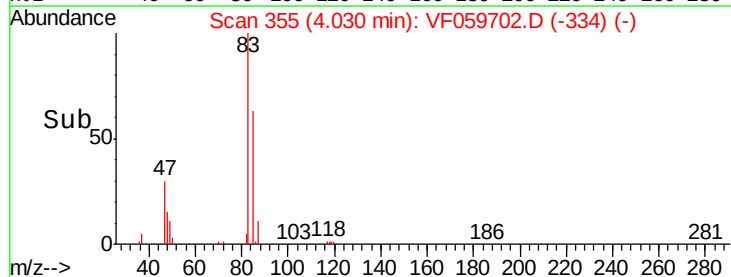
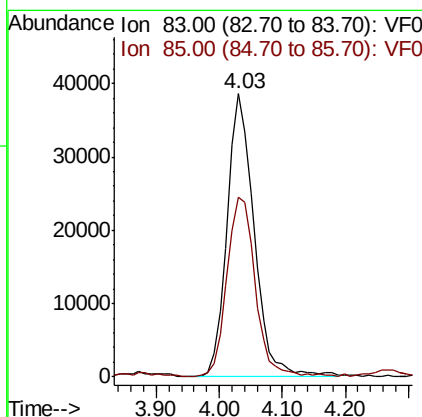
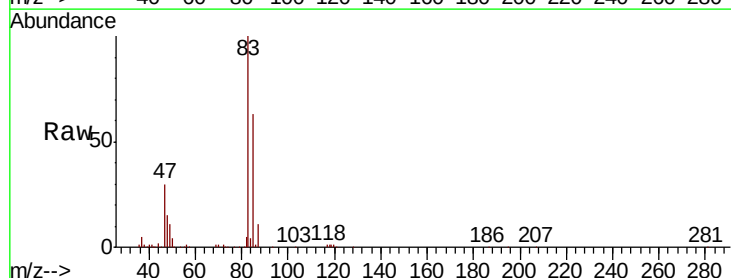
Manual Integrations
APPROVED

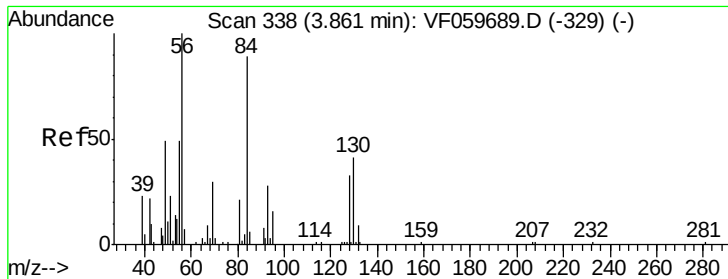
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#30
Chloroform
Concen: 21.992 ug/l
RT: 4.03 min Scan# 355
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	49.4	74.0





#31

Cyclohexane

Concen: 21.025 ug/l

RT: 3.85 min Scan# 337

Delta R.T. -0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

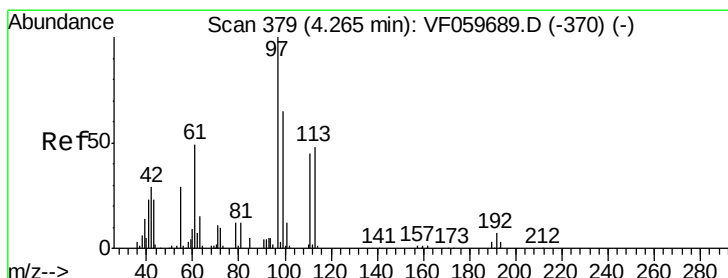
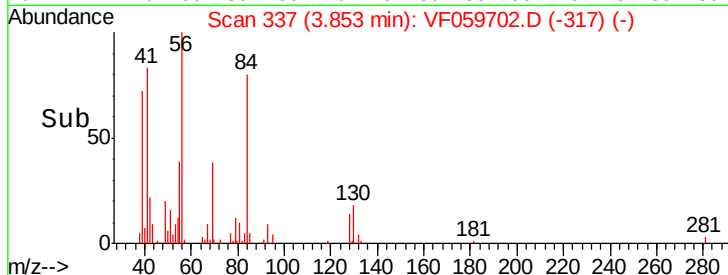
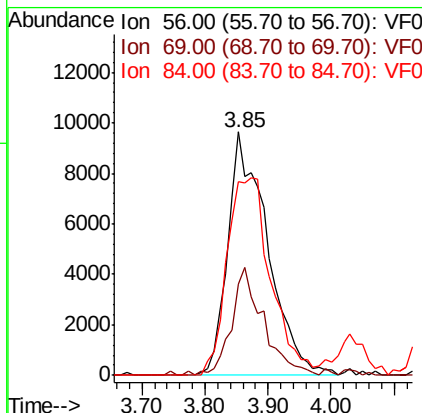
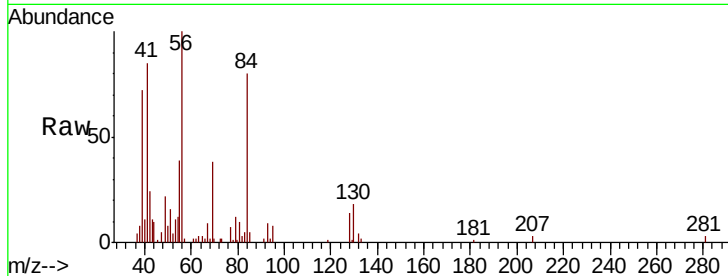
ClientSampleId :

VF0731SBS01

Tot Ion:	56	Resp:	41982
Ion	Ratio	Lower	Upper
56	100		
69	37.8	23.7	35.5#
84	79.5	71.1	106.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 21.686 ug/l

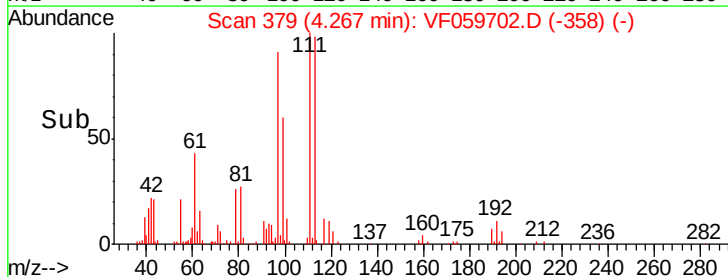
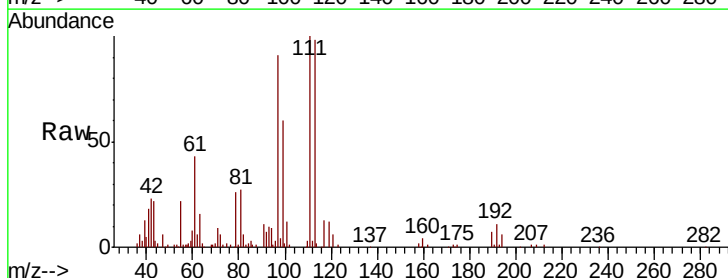
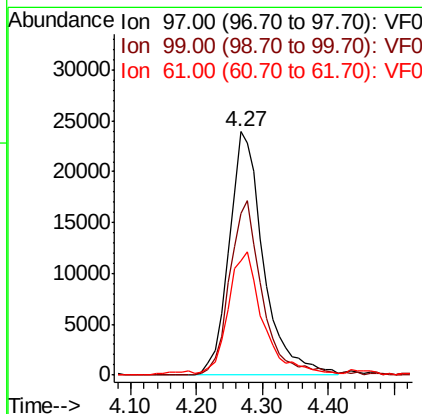
RT: 4.27 min Scan# 379

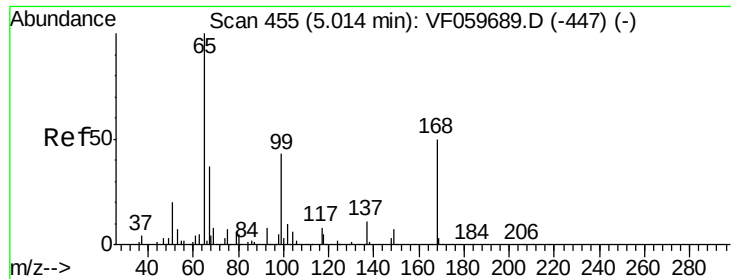
Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion:	97	Resp:	87831
Ion	Ratio	Lower	Upper
97	100		
99	66.2	52.4	78.6
61	46.8	39.7	59.5





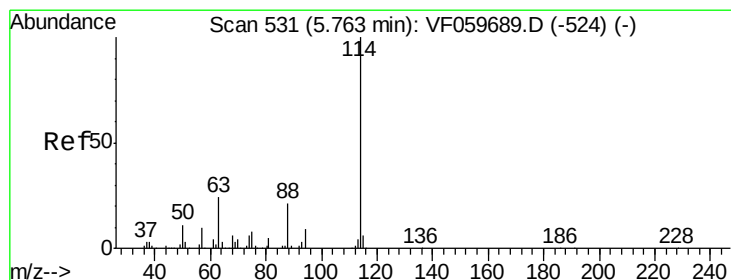
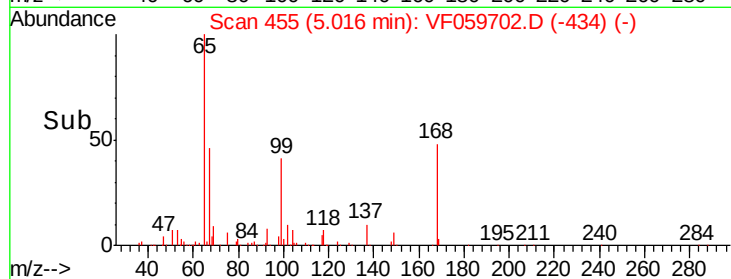
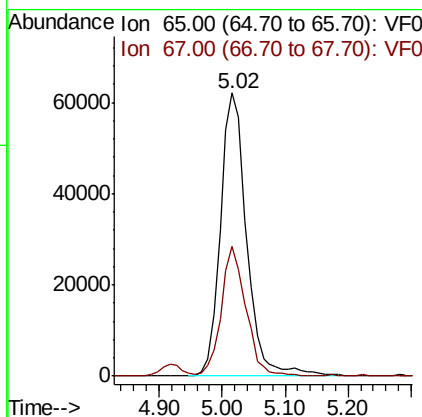
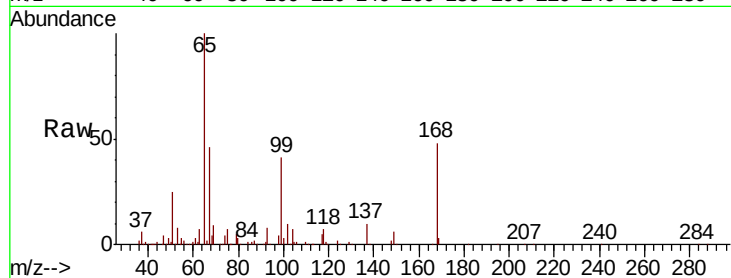
#33
 1,2-Dichloroethane-d4
 Concen: 49.111 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	45.8	0.0	84.6

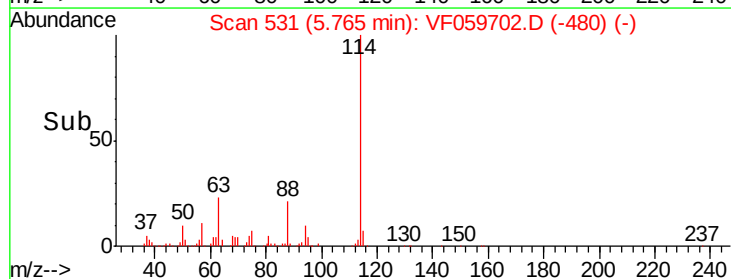
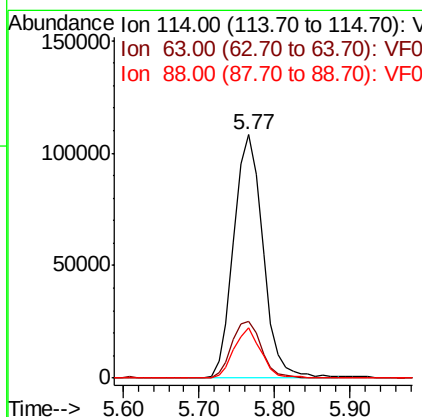
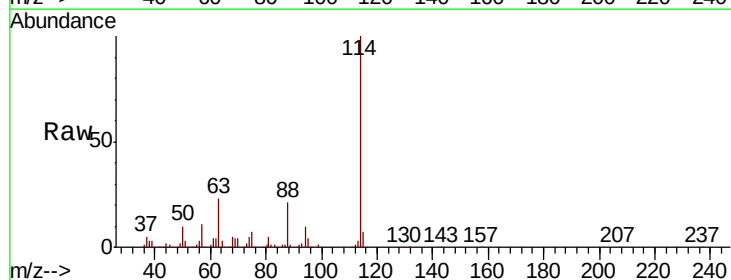
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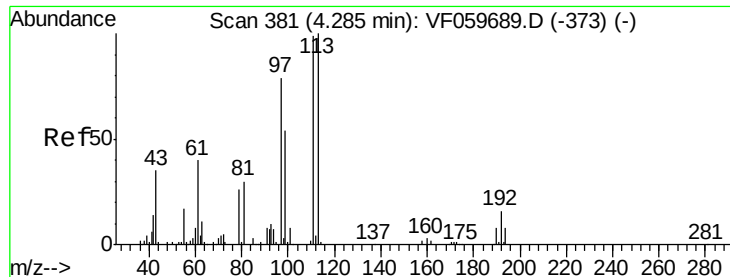
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	47.4
88	20.6	0.0	41.2





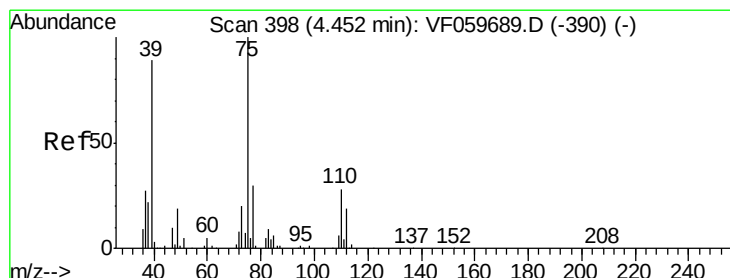
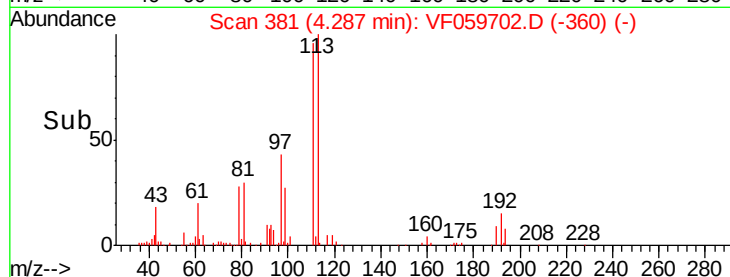
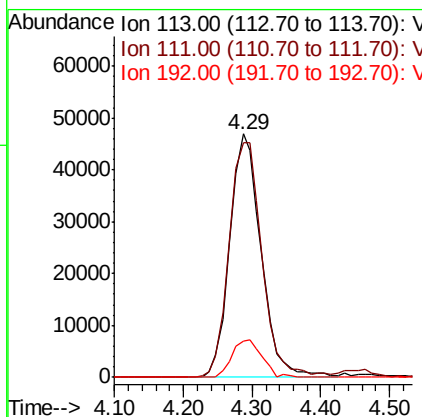
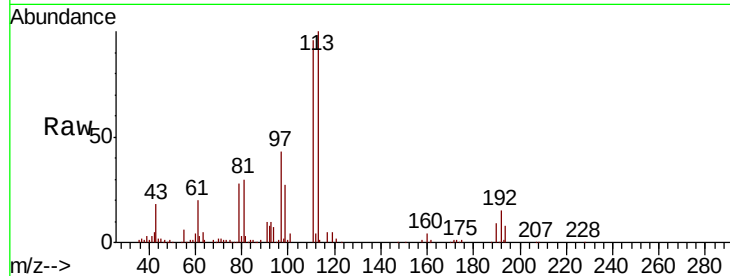
#35
 Dibromofluoromethane
 Concen: 49.101 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	148075		
111	96.1		79.0	118.4
192	14.7		13.2	19.8

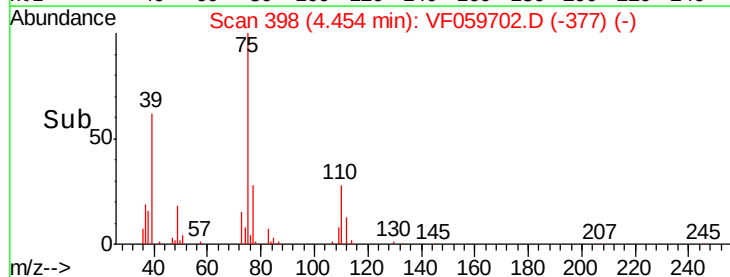
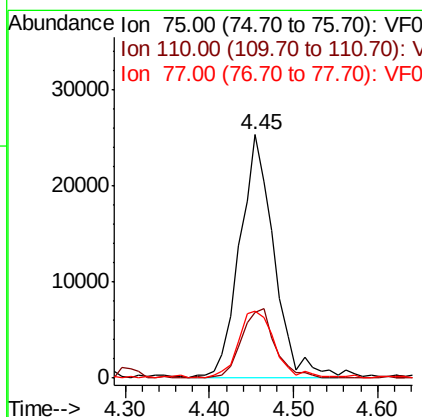
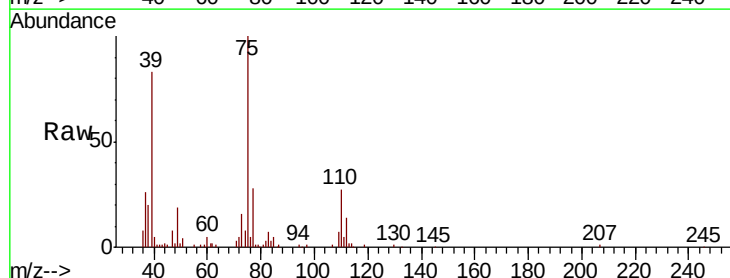
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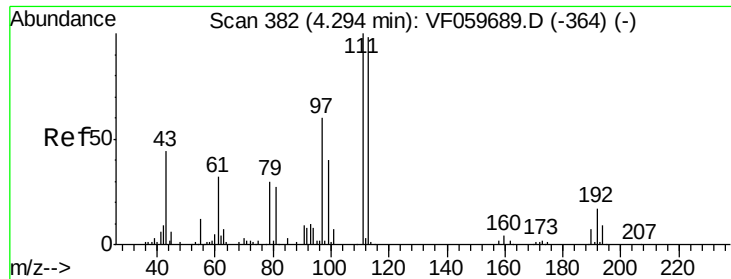
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#36
 1,1-Dichloropropene
 Concen: 21.992 ug/l
 RT: 4.45 min Scan# 398
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	71151		
110	27.0		14.0	41.9
77	27.7		24.2	36.2





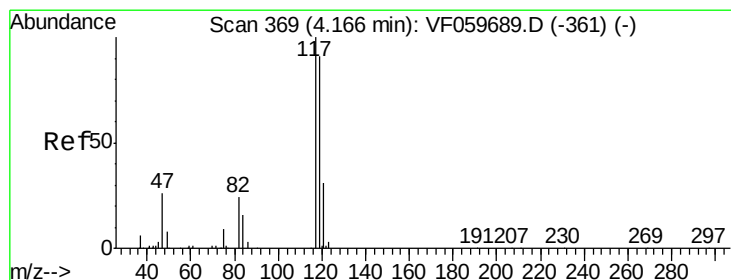
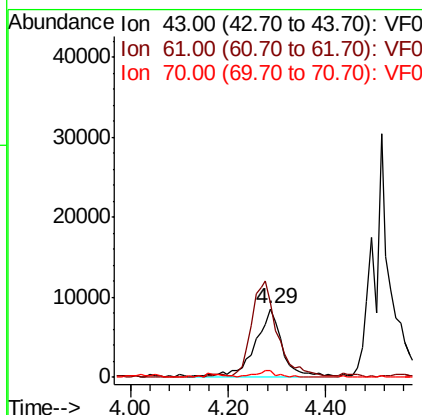
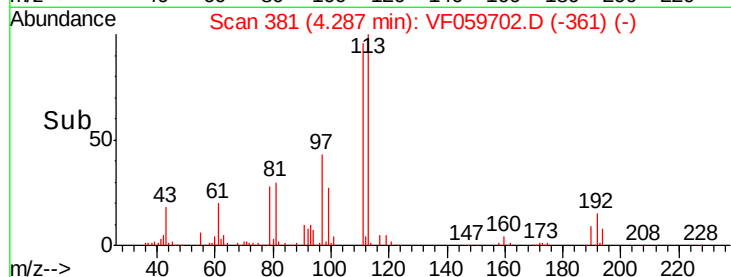
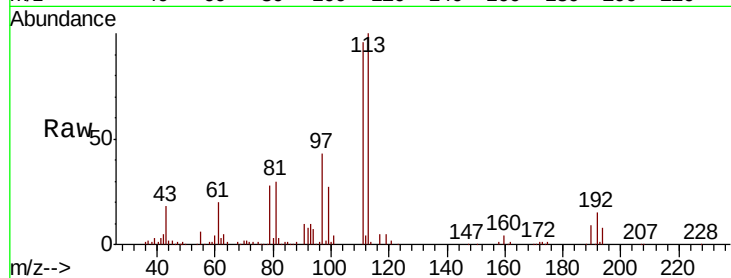
#37
Ethyl Acetate
Concen: 20.500 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	109.1	58.2	87.2#
70	10.8	6.0	9.0#

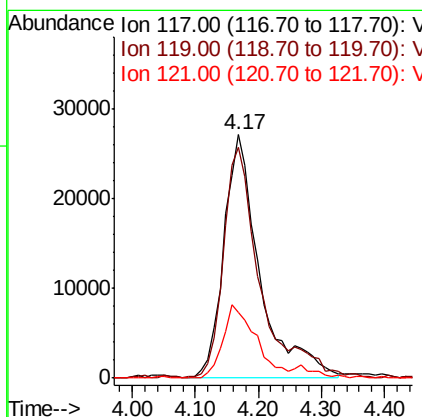
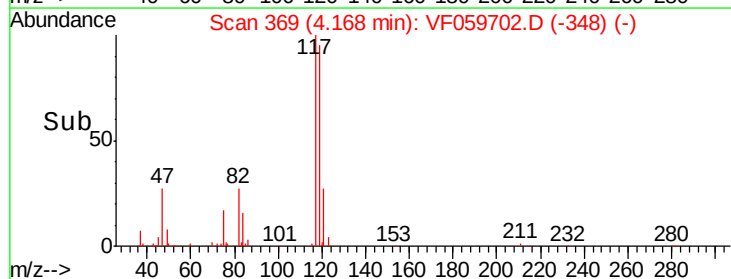
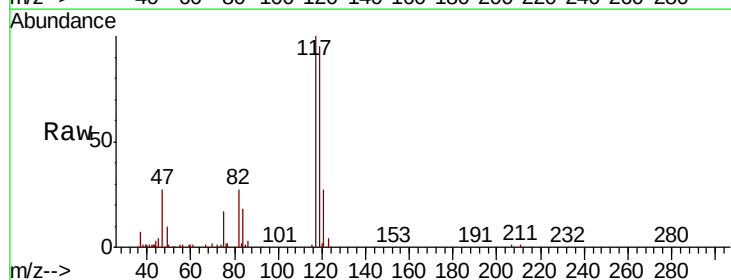
Manual Integrations
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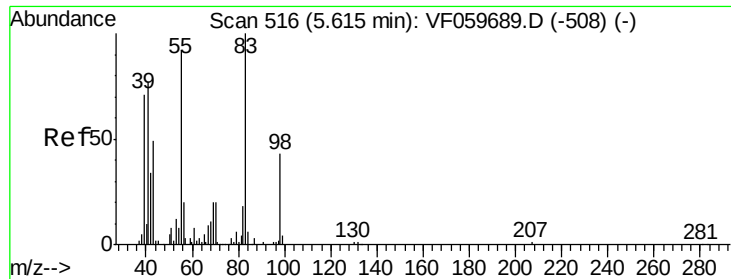
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#38
Carbon Tetrachloride
Concen: 23.490 ug/l
RT: 4.17 min Scan# 369
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.6	72.9	109.3
121	26.8	25.0	37.4





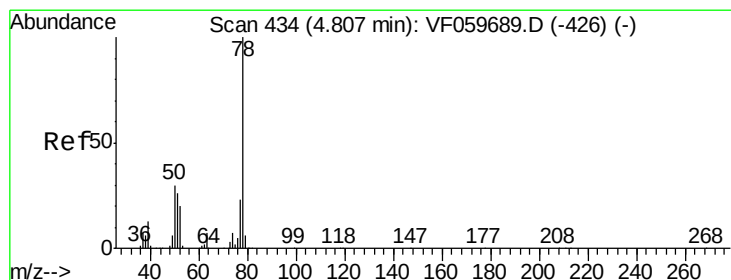
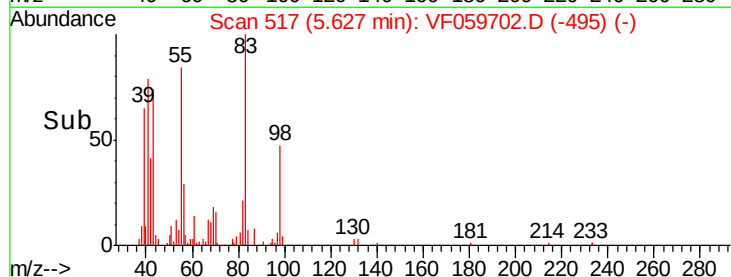
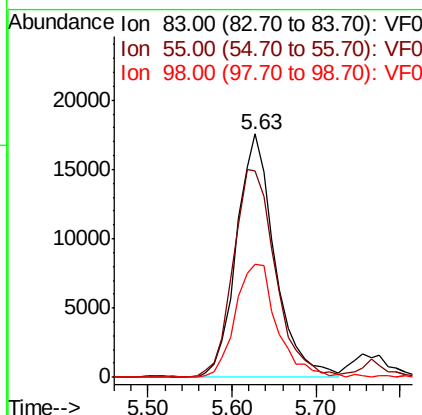
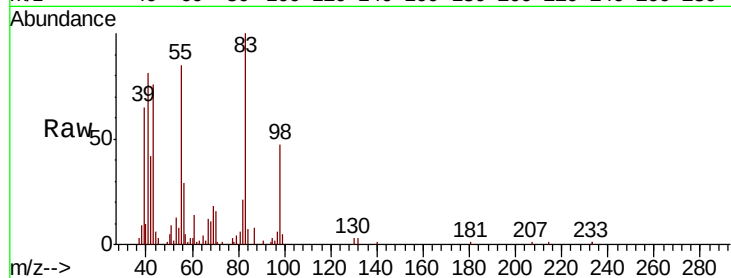
#39
Methylvlcyclohexane
Concen: 22.543 ug/l
RT: 5.63 min Scan# 517
Delta R.T. 0.01 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.0	73.4	110.2
98	46.7	34.2	51.4

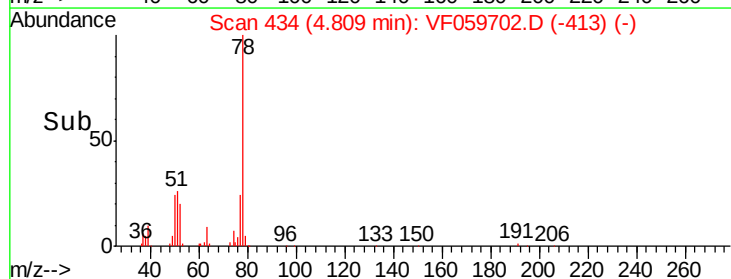
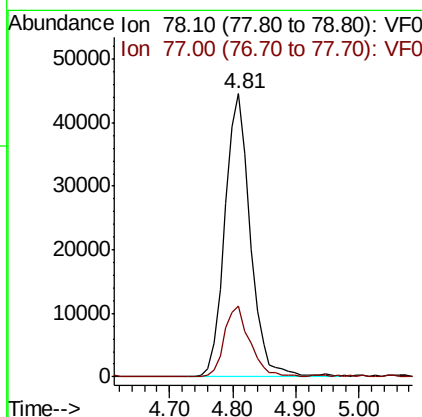
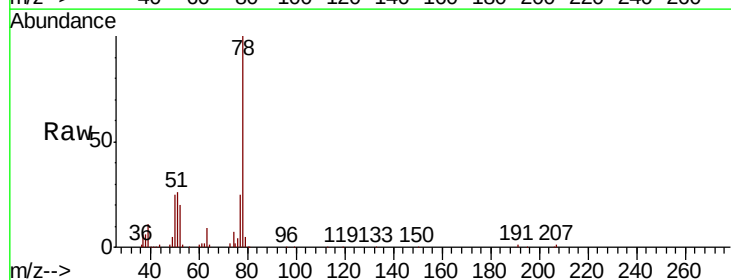
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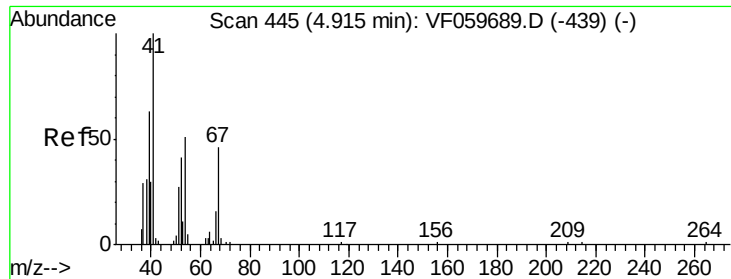
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#40
Benzene
Concen: 21.276 ug/l
RT: 4.81 min Scan# 434
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.9	28.3





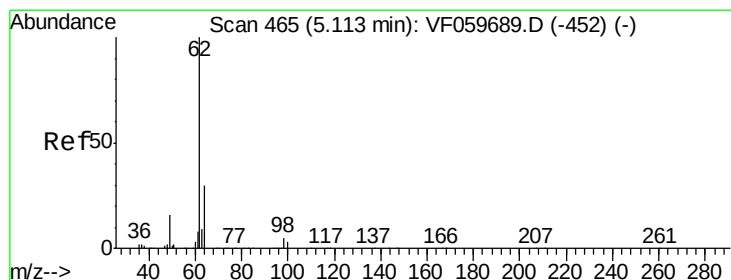
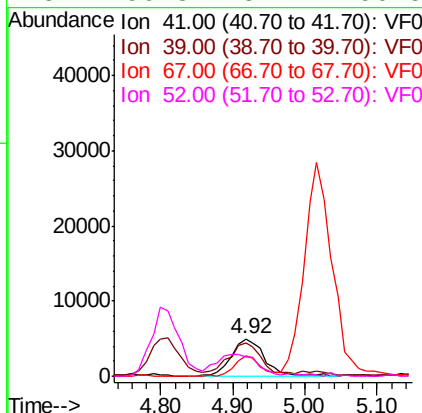
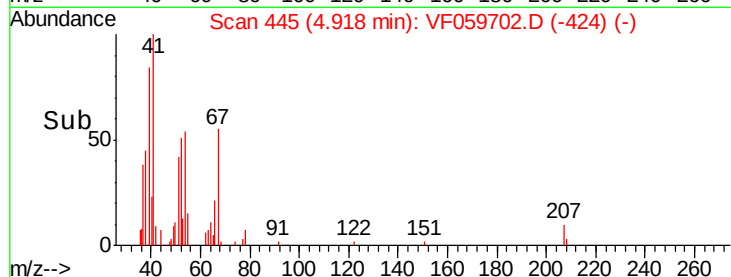
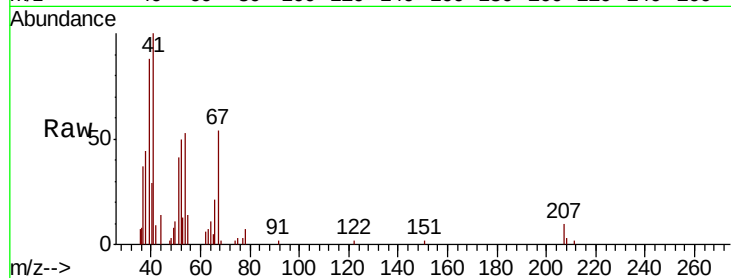
#41
Methacrylonitrile
Concen: 20.493 ug/l
RT: 4.92 min Scan# 445
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	87.5	55.2	82.8#
67	53.8	36.2	54.2
52	50.3	37.7	56.5

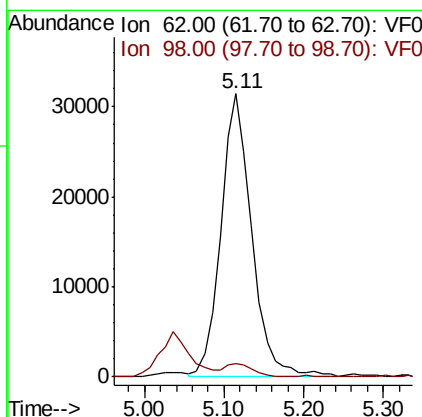
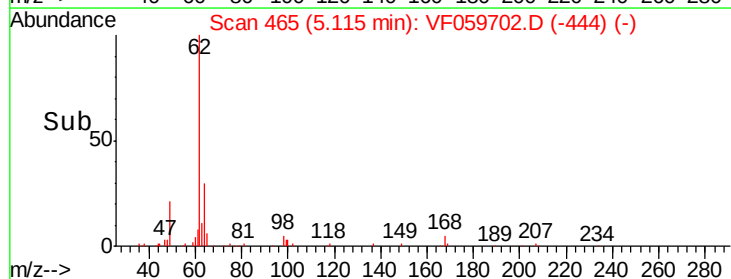
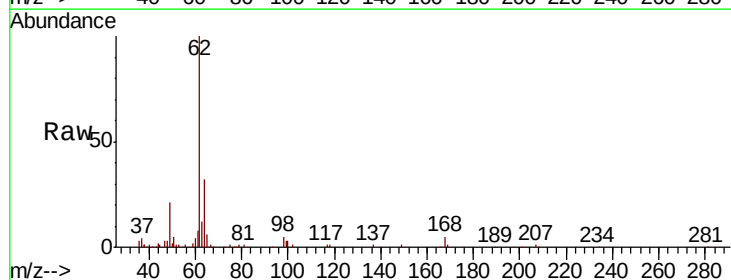
Manual Integrations
APPROVED

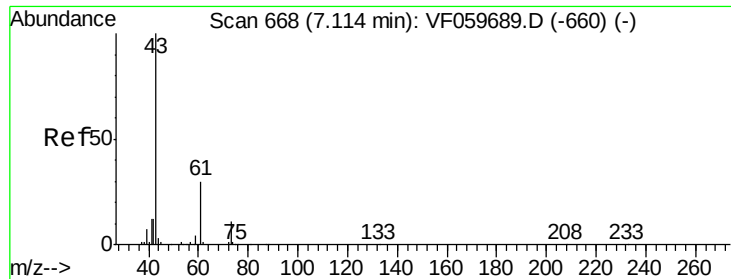
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#42
1,2-Dichloroethane
Concen: 20.811 ug/l
RT: 5.11 min Scan# 465
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.8	0.0	9.6





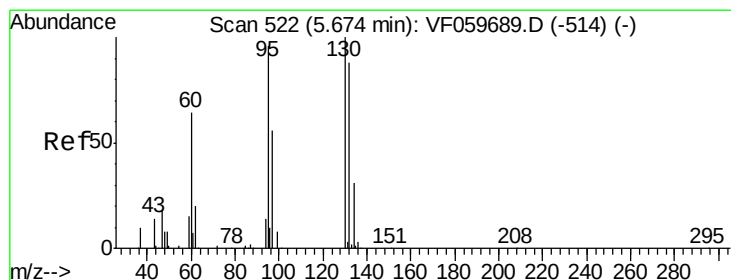
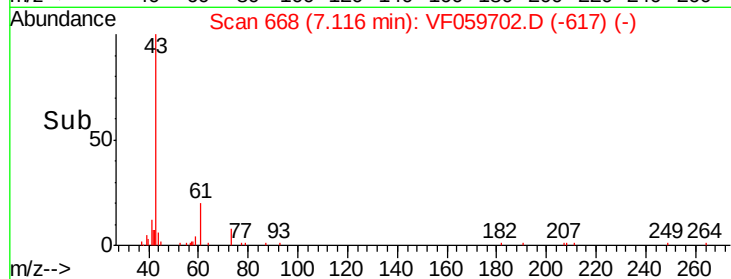
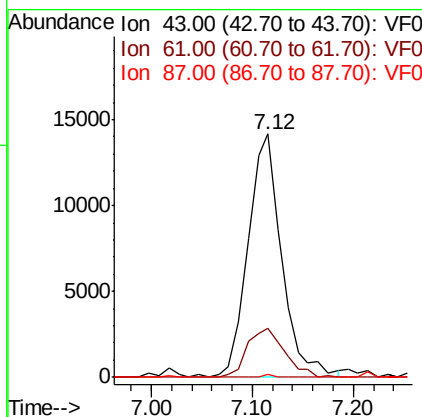
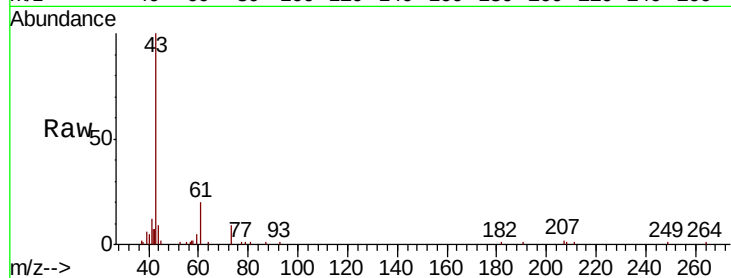
#43
Isopropyl Acetate
Concen: 18.984 ug/l
RT: 7.12 min Scan# 668
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.4	23.8	35.8#
87	1.0	0.6	1.0#

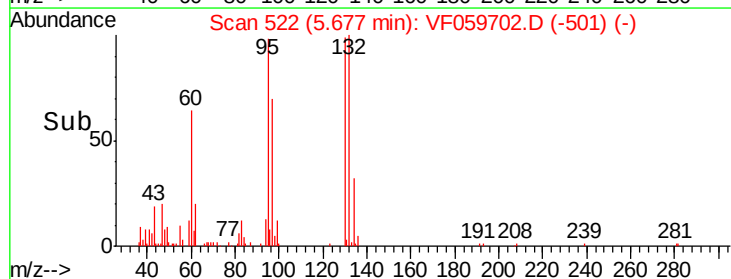
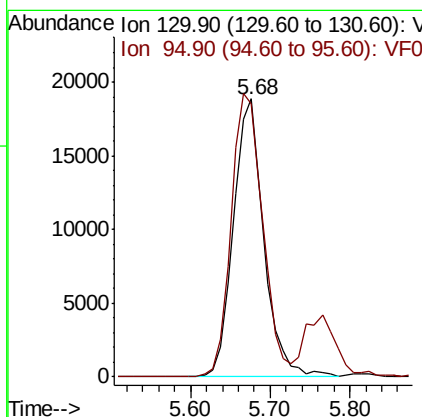
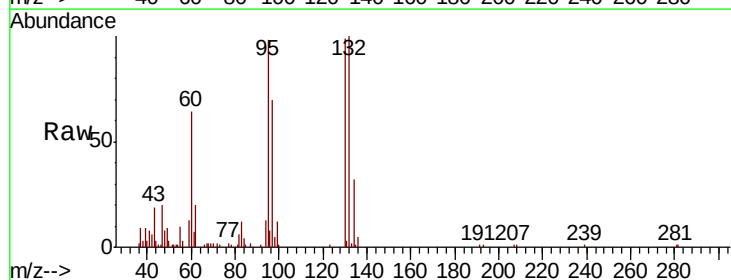
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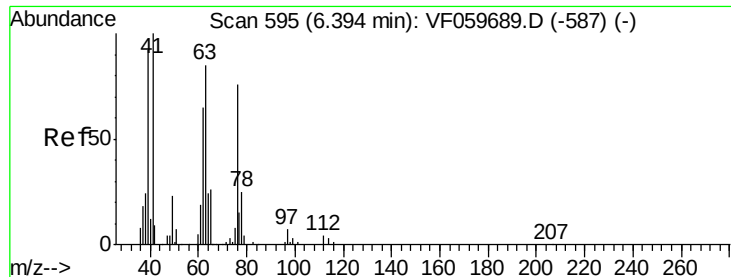
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#44
Trichloroethene
Concen: 22.514 ug/l
RT: 5.68 min Scan# 522
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	191.0





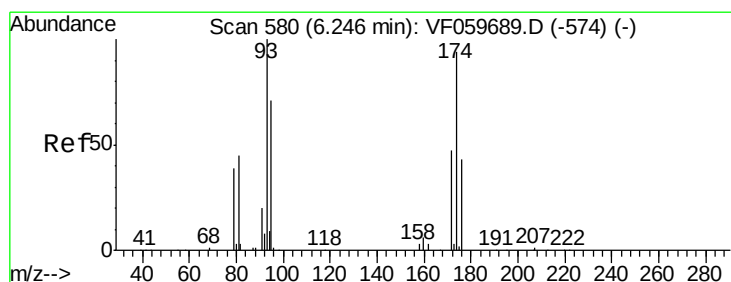
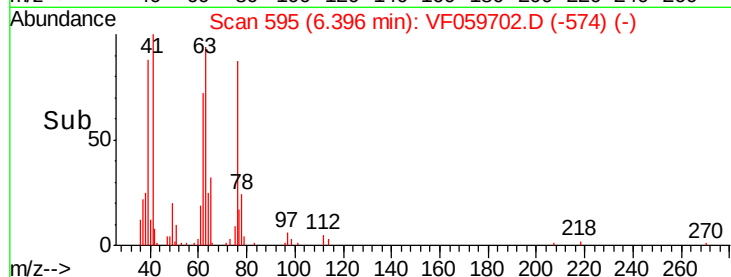
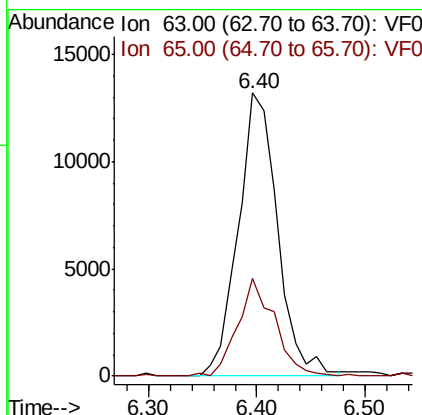
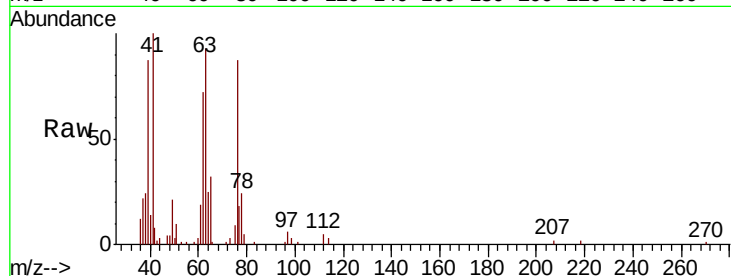
#45
 1,2-Dichloropropane
 Concen: 21.566 ug/l
 RT: 6.40 min Scan# 595
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	35.6	25.2	37.8

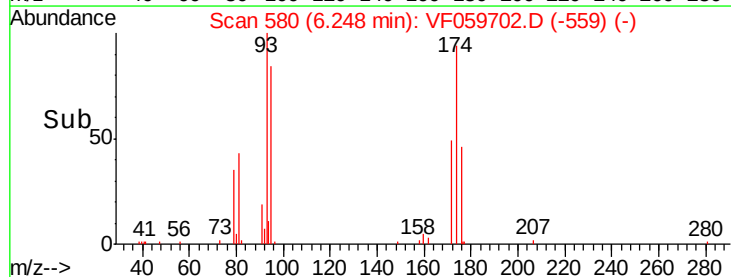
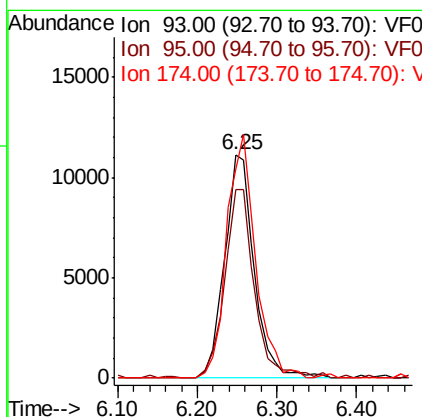
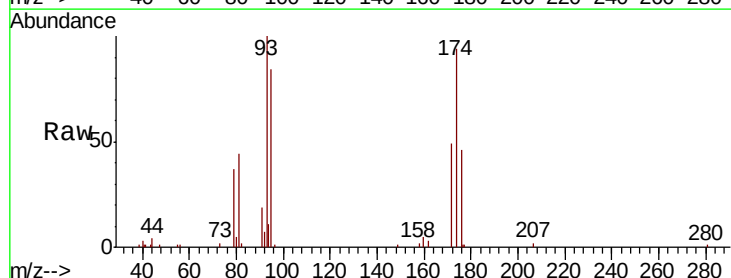
Manual Integrations
 APPROVED

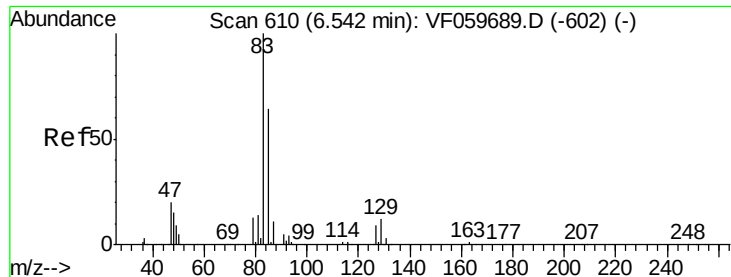
apatel
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#46
 Dibromomethane
 Concen: 19.744 ug/l
 RT: 6.25 min Scan# 580
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.4	57.1	85.7
174	93.8	74.8	112.2





#47

Bromodichloromethane

Concen: 20.895 ug/l

RT: 6.54 min Scan# 610

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

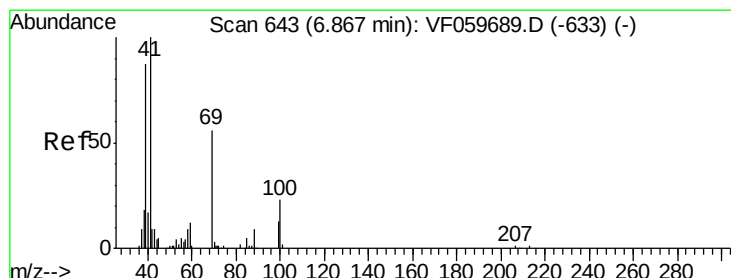
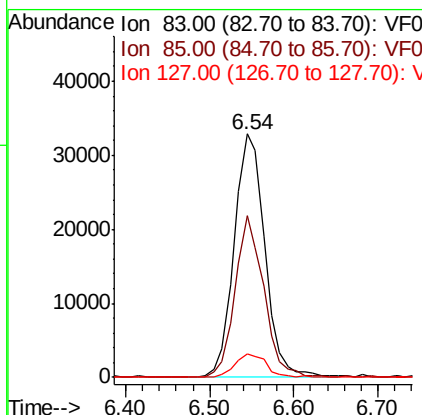
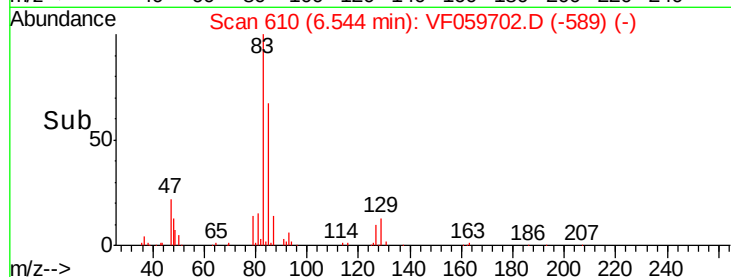
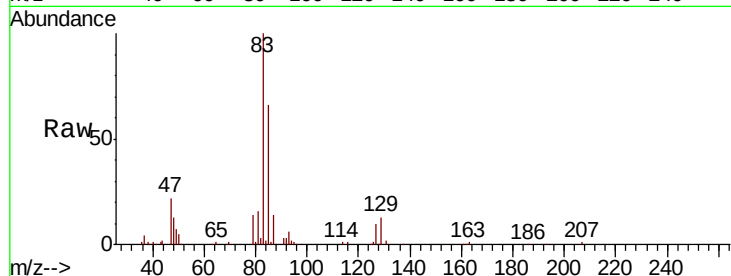
ClientSampleId :

VF0731SBS01

Tot Ion:	83	Resp:	83652
Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.0	76.6
127	9.8	7.3	10.9

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.057 ug/l

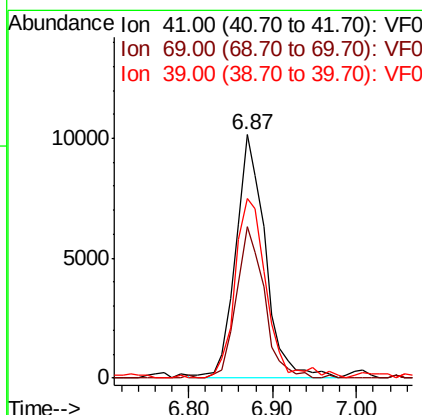
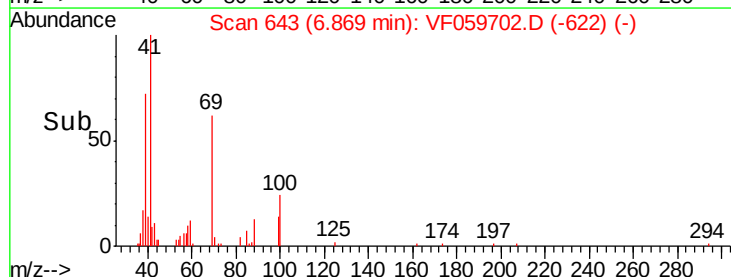
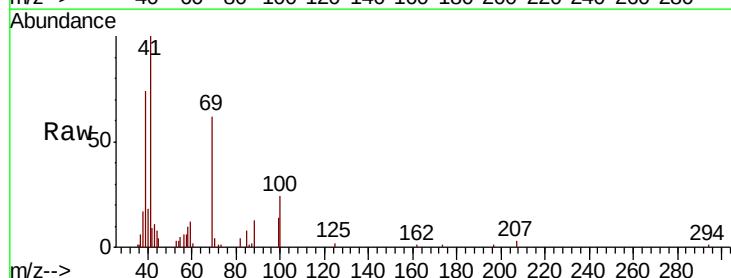
RT: 6.87 min Scan# 643

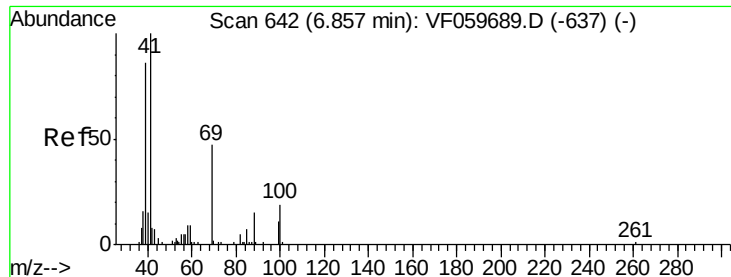
Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion:	41	Resp:	24886
Ion	Ratio	Lower	Upper
41	100		
69	62.0	44.4	66.6
39	73.7	69.4	104.2





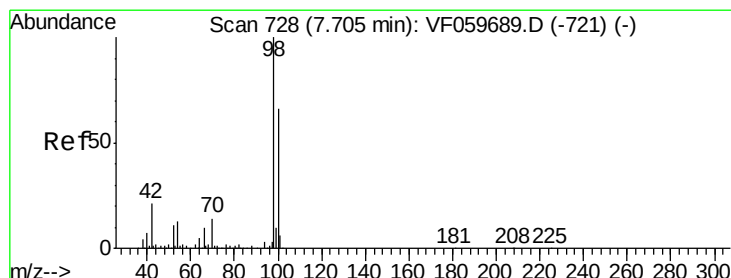
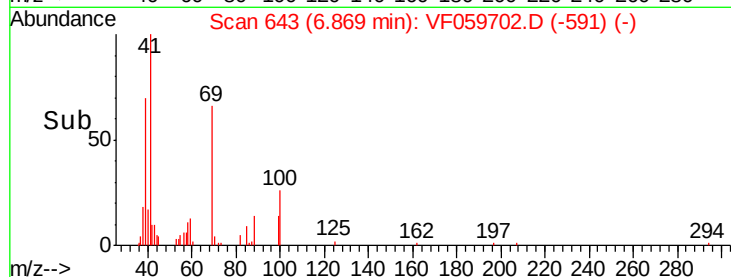
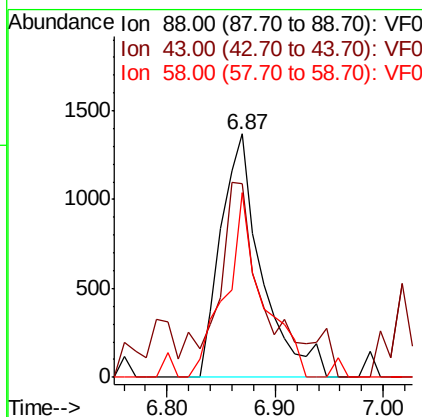
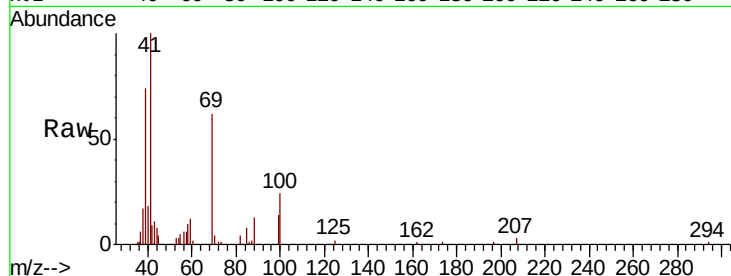
#49
1,4-Dioxane
Concen: 401.740 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	79.8	45.2	67.8#
58	75.8	49.0	73.6#

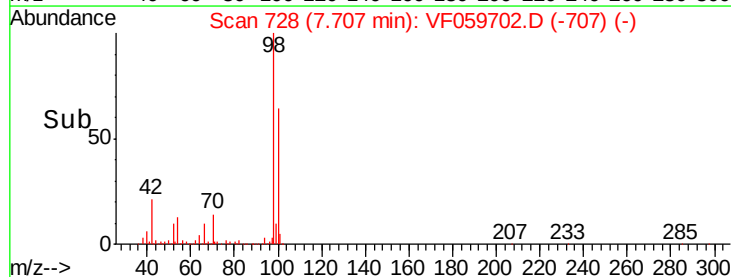
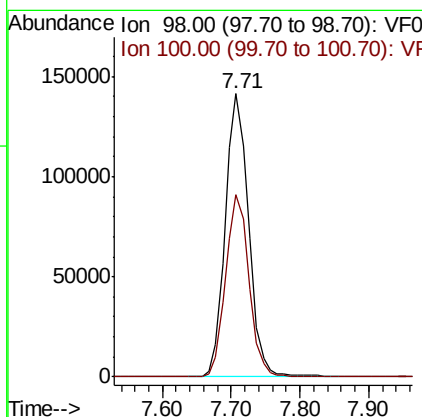
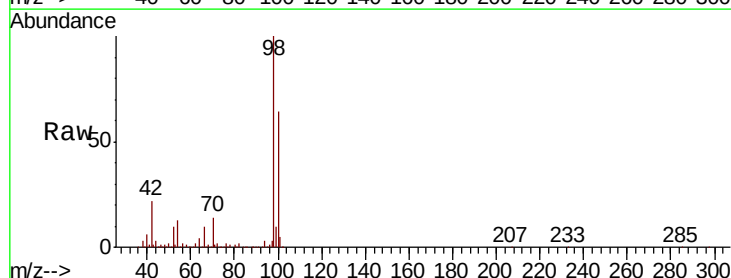
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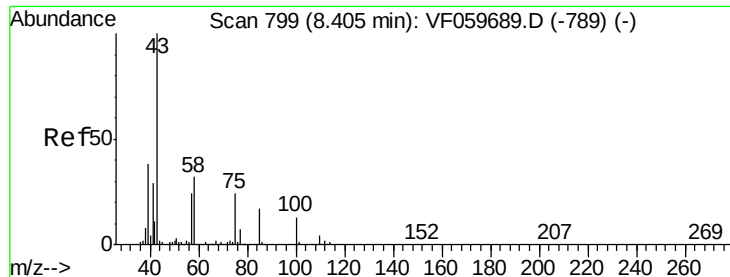
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#50
Toluene-d8
Concen: 47.312 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.8	79.2





#51

4-Methyl-2-Pentanone

Concen: 97.851 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion: 43 Resp: 129232

Ion Ratio Lower Upper

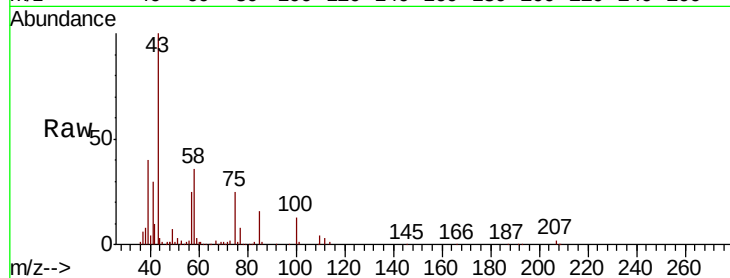
43 100

58 36.1 25.9 38.9

Manual Integrations
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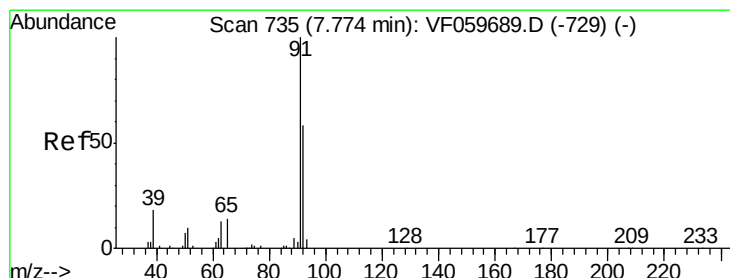
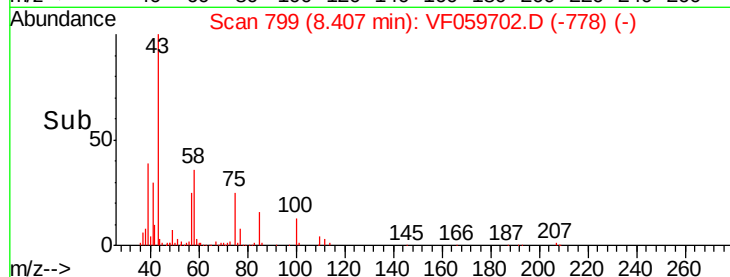
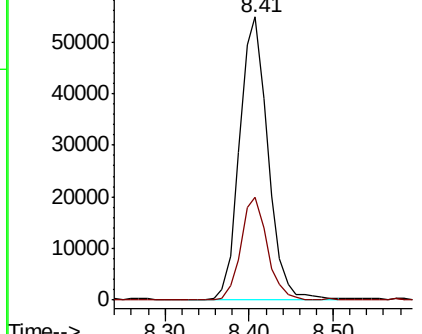
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.899 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059702.D

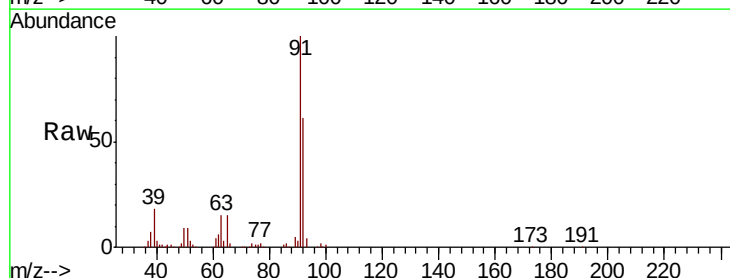
Acq: 31 Jul 2018 11:56

Tgt Ion: 92 Resp: 94969

Ion Ratio Lower Upper

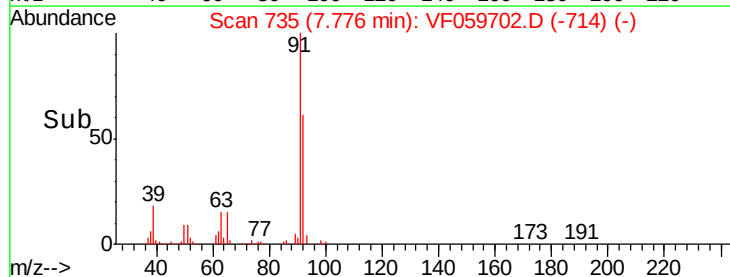
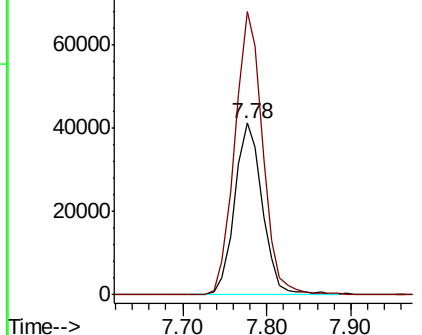
92 100

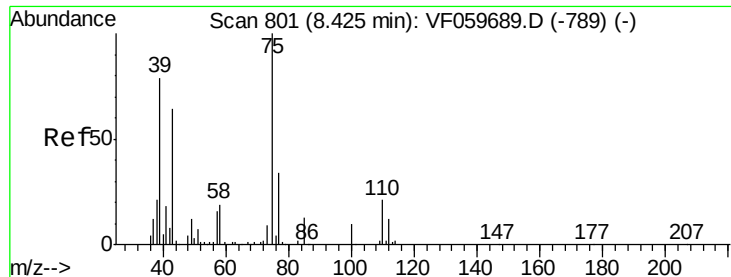
91 164.7 139.0 208.4



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: 20.856 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion: 75 Resp: 72451

Ion Ratio Lower Upper

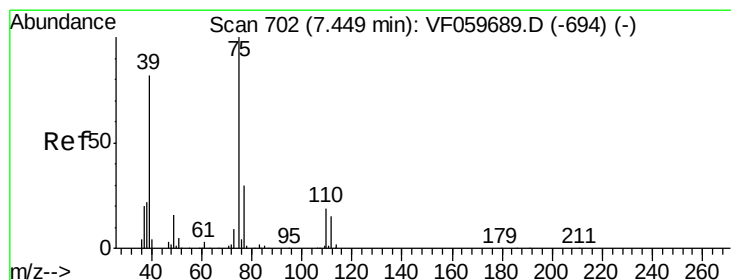
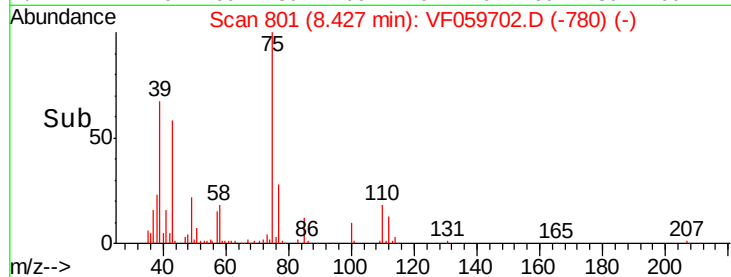
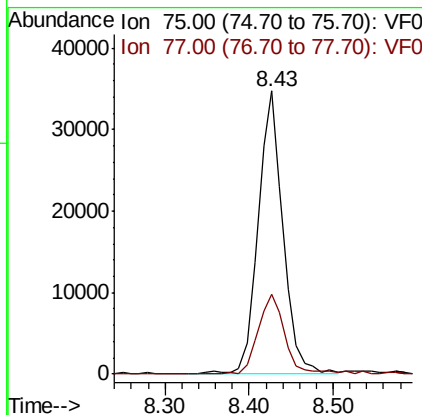
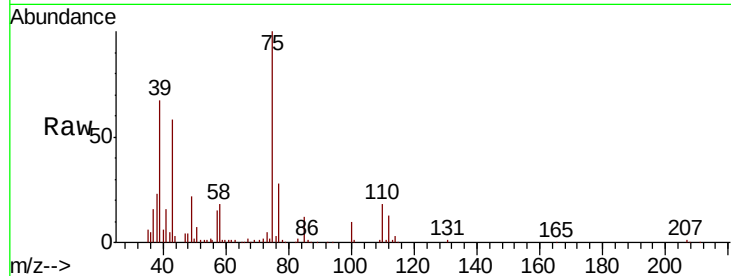
75 100

77 28.2 27.0 40.4

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#54

cis-1,3-Dichloropropene

Concen: 22.769 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

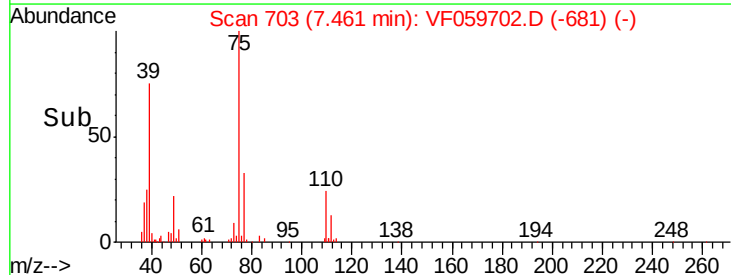
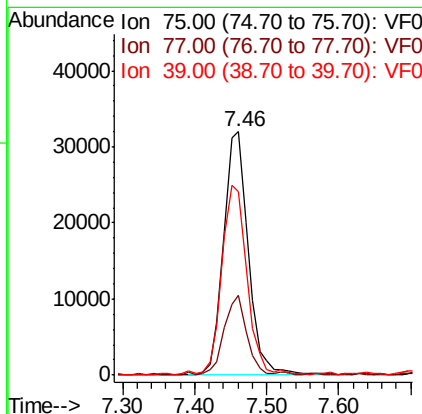
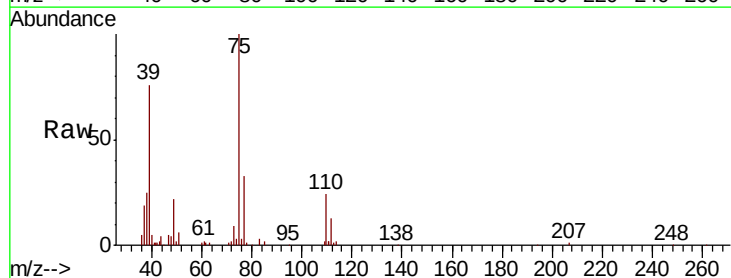
Tgt Ion: 75 Resp: 76614

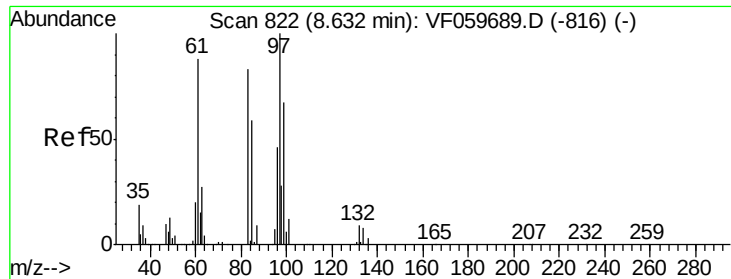
Ion Ratio Lower Upper

75 100

77 32.7 24.0 36.0

39 75.5 65.4 98.2





#55

1,1,2-Trichloroethane

Concen: 20.022 ug/l

RT: 8.63 min Scan# 822

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

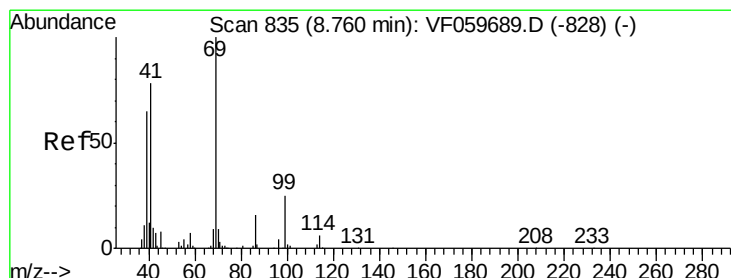
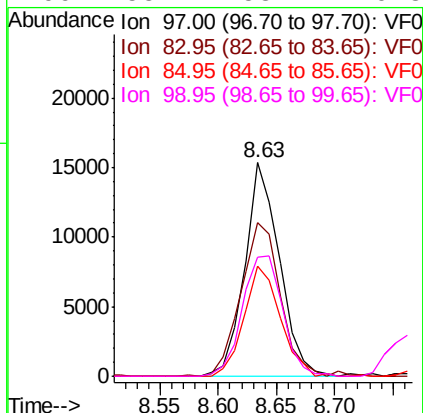
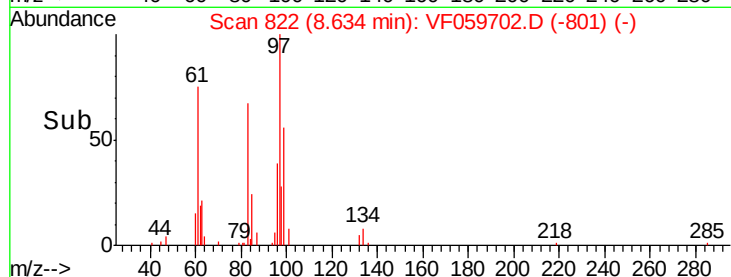
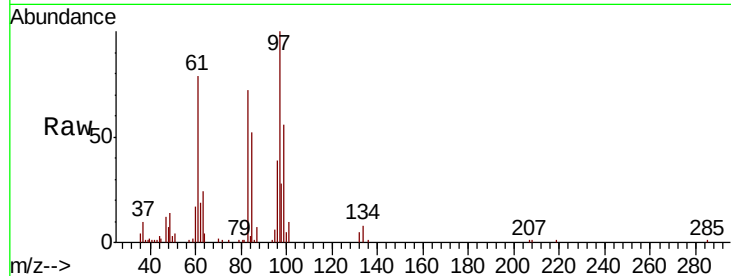
ClientSampleId :

VF0731SBS01

Tot Ion:	97	Resp:	31796
Ion	Ratio	Lower	Upper
97	100		
83	72.1	66.6	100.0
85	51.6	47.4	71.0
99	55.7	53.2	79.8

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#56

Ethyl methacrylate

Concen: 19.902 ug/l

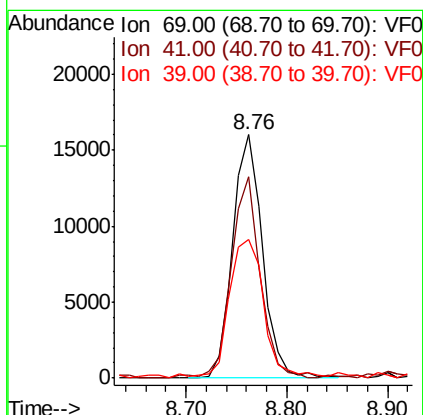
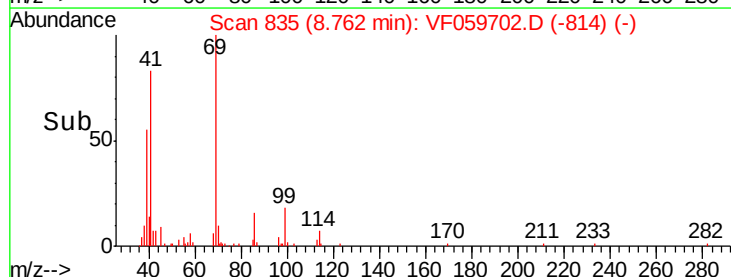
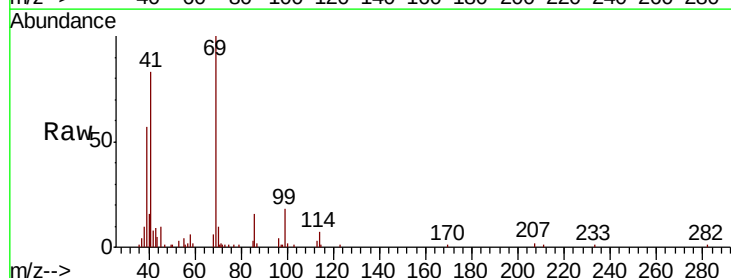
RT: 8.76 min Scan# 835

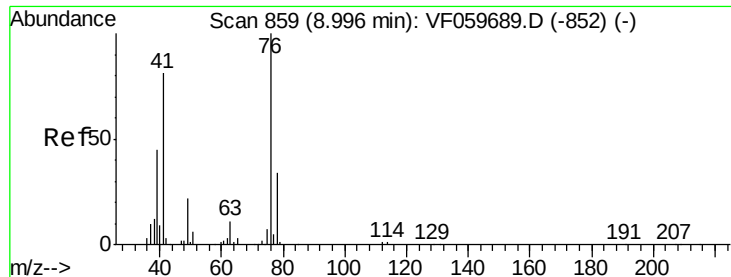
Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion:	69	Resp:	32961
Ion	Ratio	Lower	Upper
69	100		
41	82.9	62.3	93.5
39	56.7	52.4	78.6





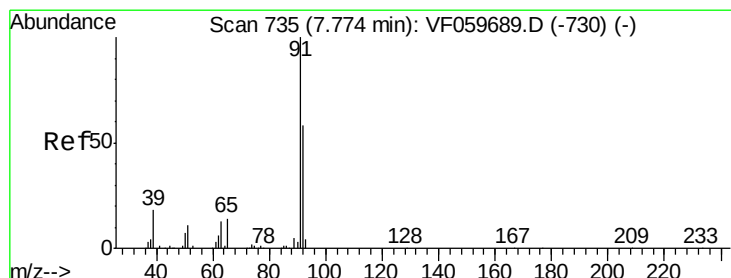
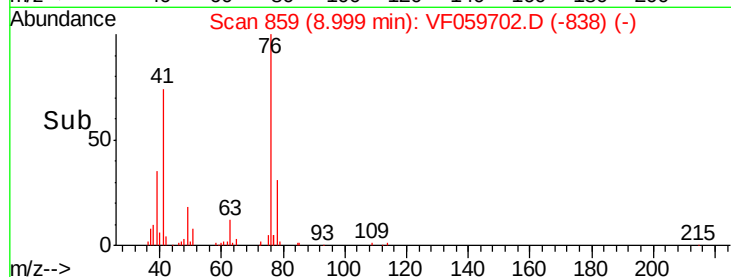
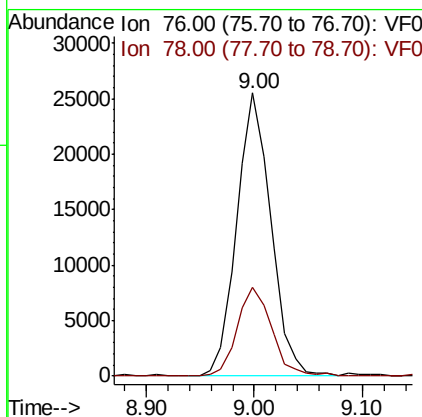
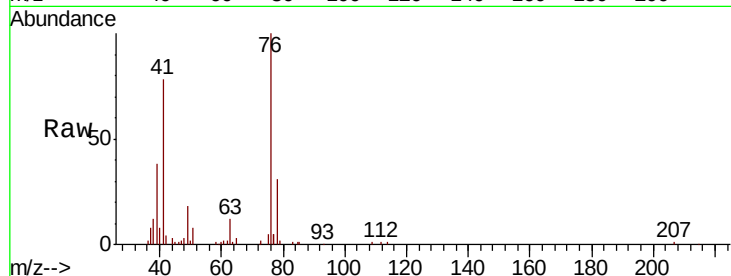
#57
 1,3-Dichloropropane
 Concen: 20.616 ug/l
 RT: 9.00 min Scan# 859
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.3	27.2	40.8

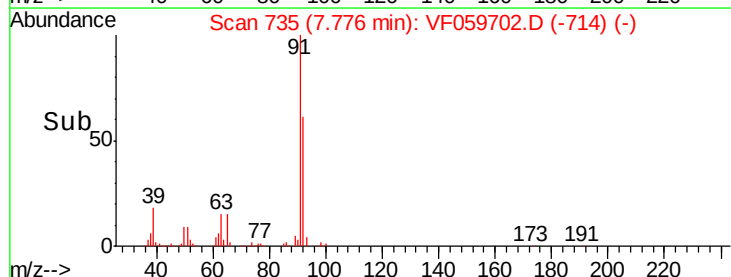
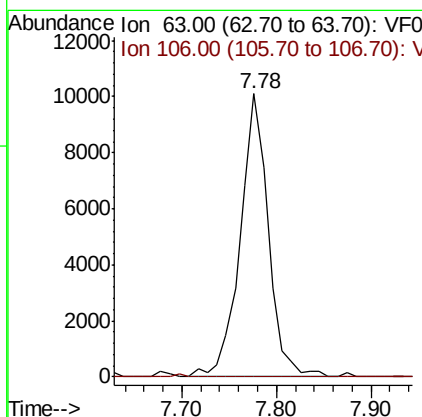
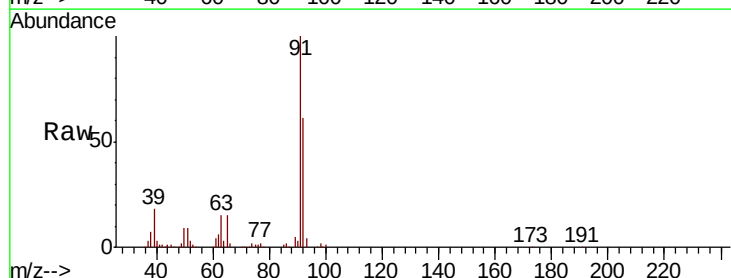
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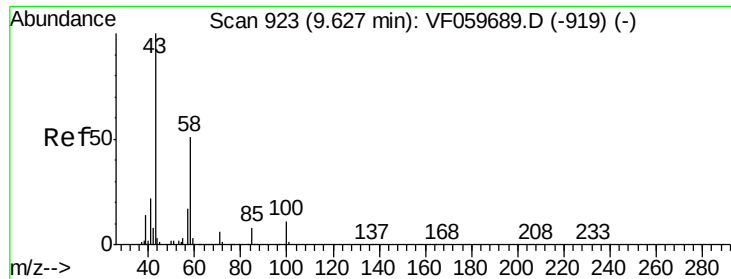
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#58
 2-Chloroethyl Vinyl ether
 Concen: 108.564 ug/l
 RT: 7.78 min Scan# 735
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0





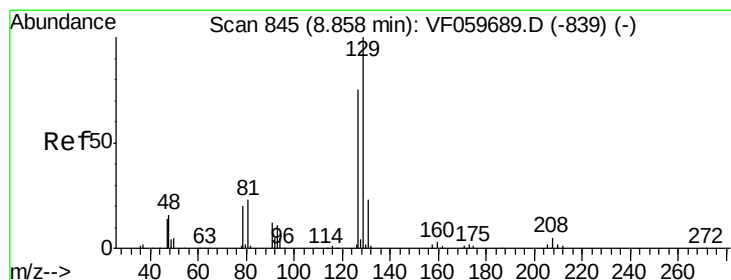
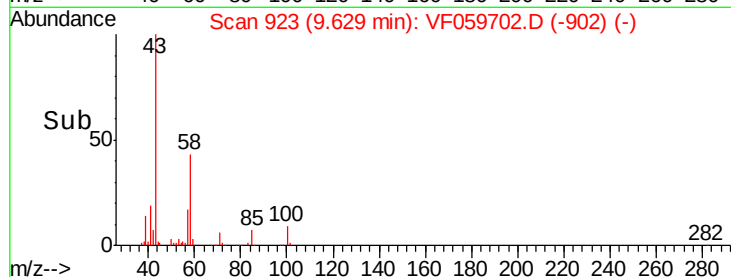
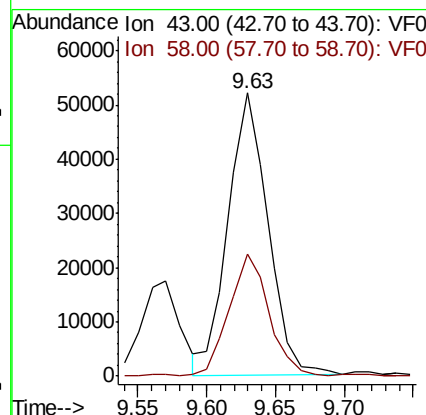
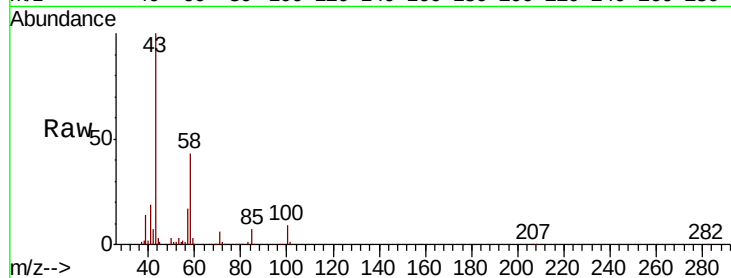
#59
2-Hexanone
Concen: 98.568 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	42.9	23.3	69.8

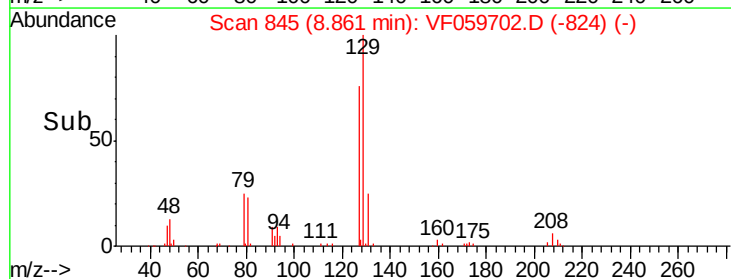
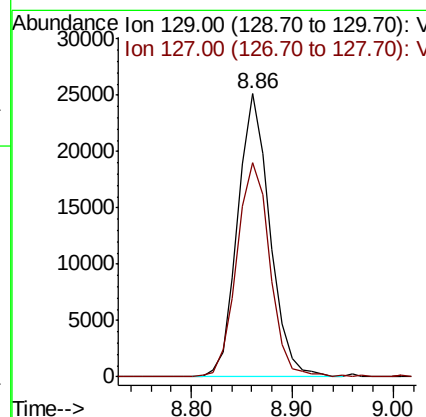
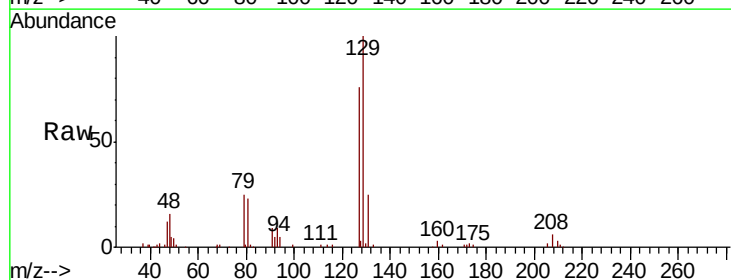
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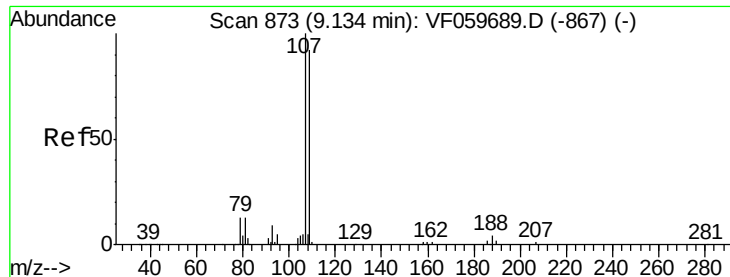
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8/1/2018 2:08:25 PM



#60
Dibromochloromethane
Concen: 19.902 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.6	37.7	113.1





#61

1,2-Dibromoethane

Concen: 20.902 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion:107 Resp: 38759

Ion Ratio Lower Upper

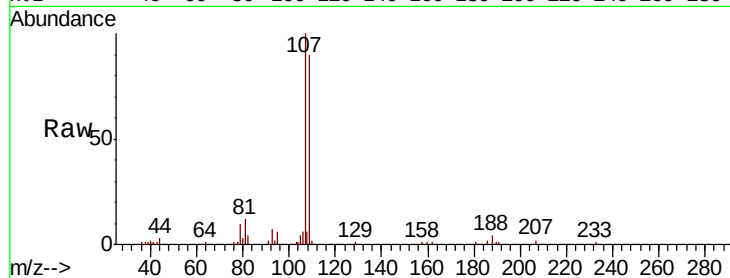
107 100

109 90.0 73.6 110.4

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

20000

15000

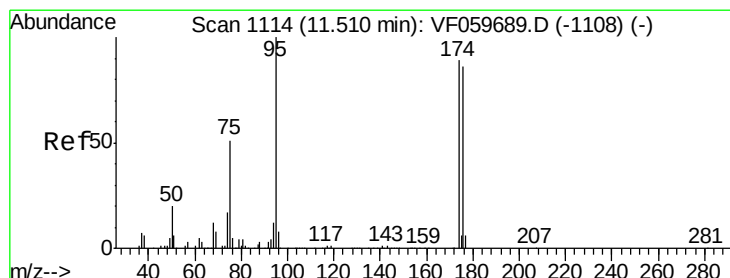
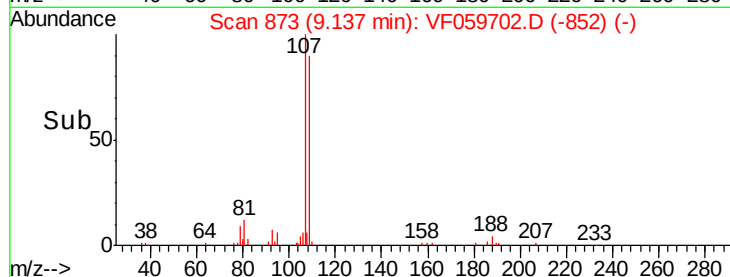
10000

5000

0

9.10 9.14 9.20

Time-->



#62

4-Bromofluorobenzene

Concen: 45.432 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

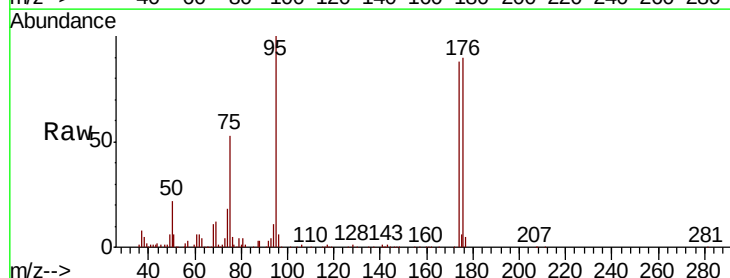
Tgt Ion: 95 Resp: 176880

Ion Ratio Lower Upper

95 100

174 88.2 0.0 178.4

176 90.2 0.0 173.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

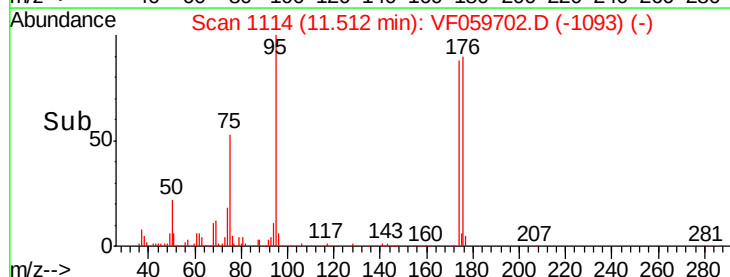
100000

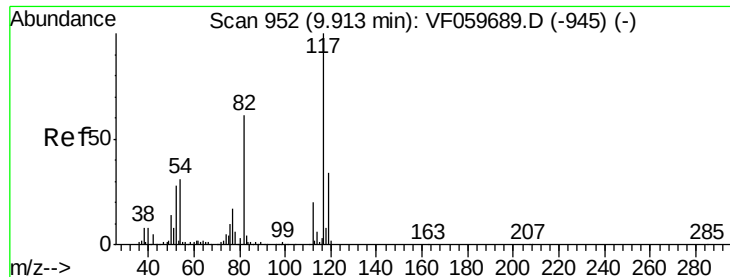
50000

0

11.40 11.51 11.60 11.70

Time-->





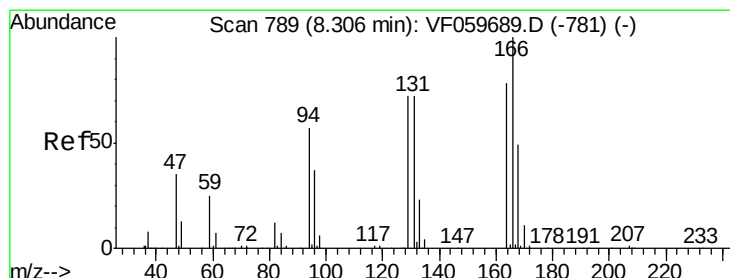
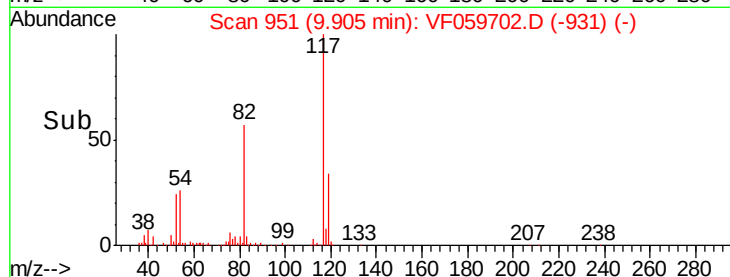
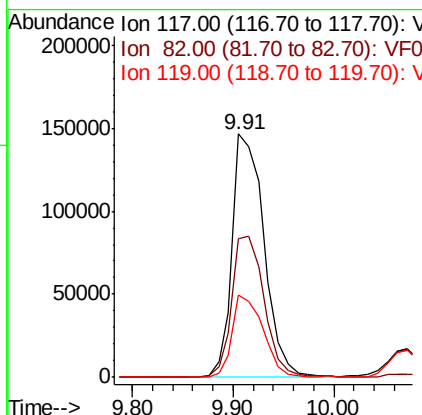
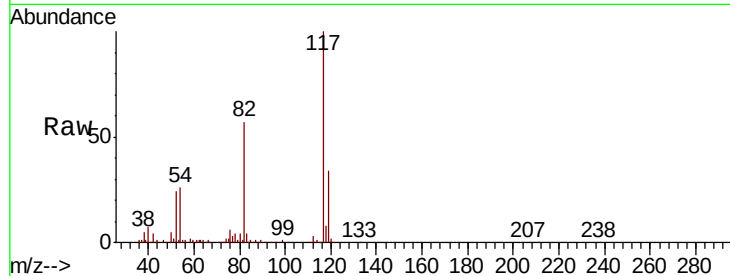
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.8	49.0	73.4
119	33.8	27.3	40.9

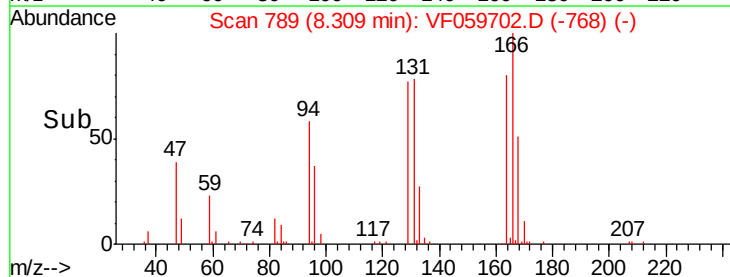
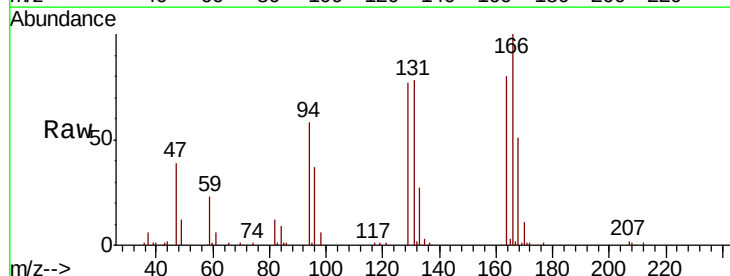
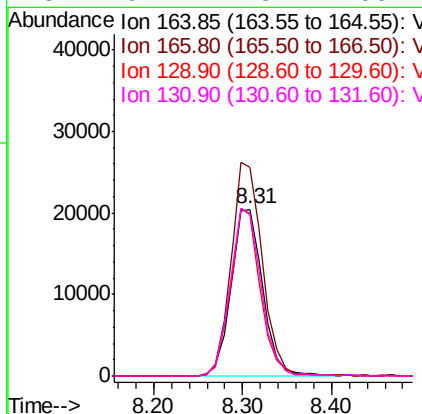
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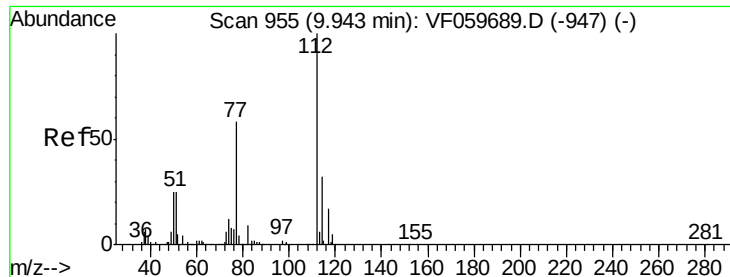
apatel
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#64
Tetrachloroethene
Concen: 20.496 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.7	102.1	153.1
129	96.5	73.8	110.6
131	97.2	73.1	109.7





#65

Chlorobenzene

Concen: 19.985 ug/l

RT: 9.93 min Scan# 954

Delta R.T. -0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion:112 Resp: 129219

Ion Ratio Lower Upper

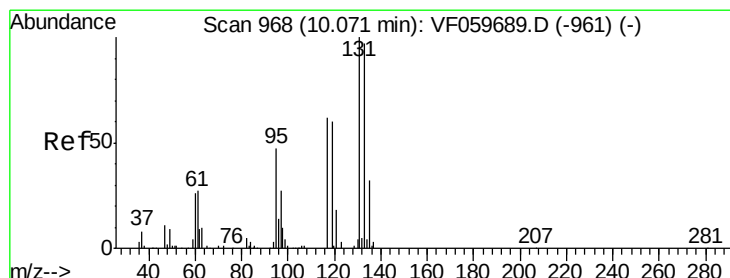
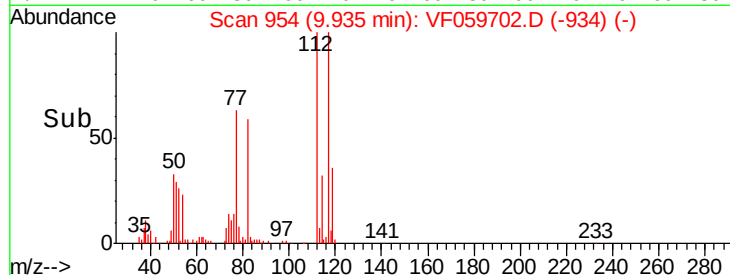
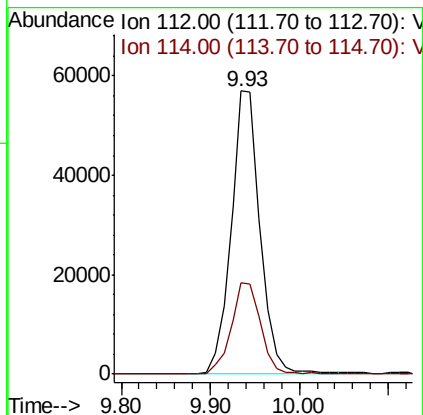
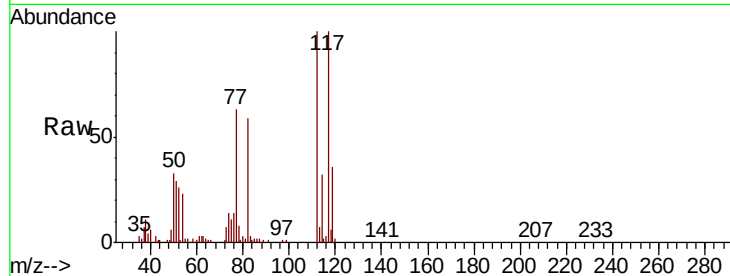
112 100

114 32.3 25.6 38.4

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#66

1,1,1,2-Tetrachloroethane

Concen: 19.986 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

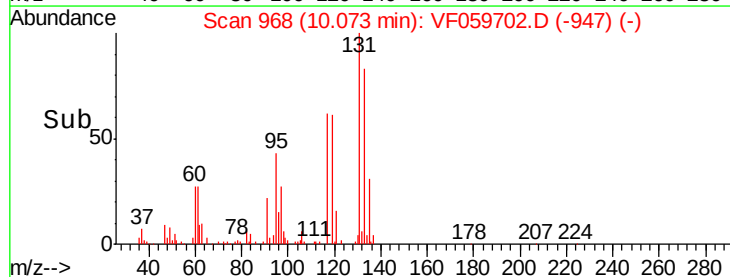
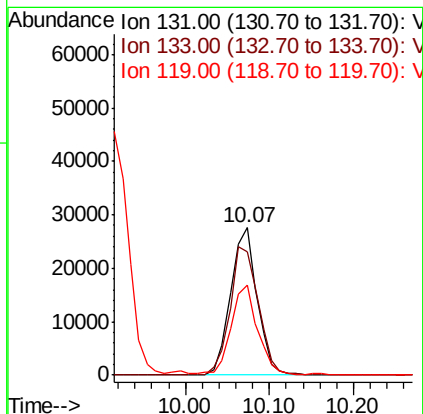
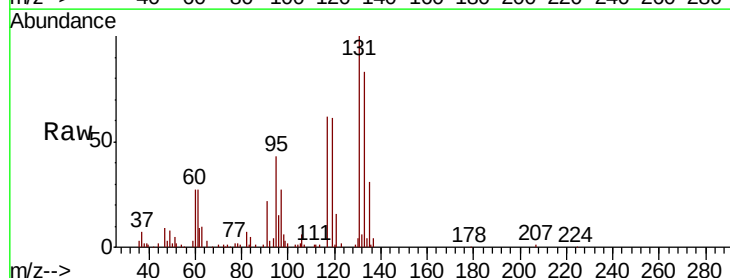
Tgt Ion:131 Resp: 60332

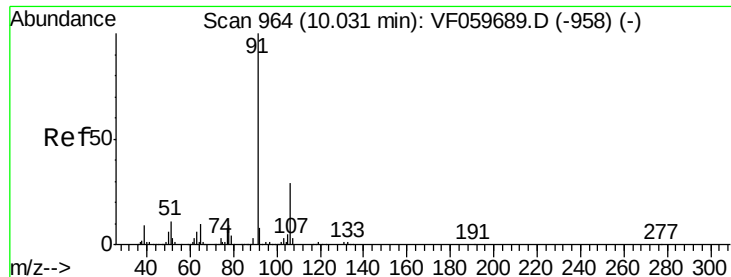
Ion Ratio Lower Upper

131 100

133 83.3 48.5 145.5

119 60.7 30.3 90.8





#67

Ethyl Benzene

Concen: 20.933 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion: 91 Resp: 234181

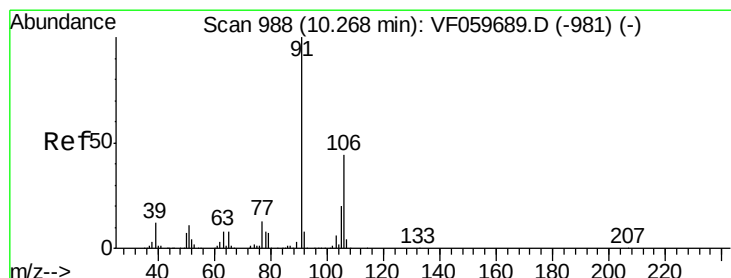
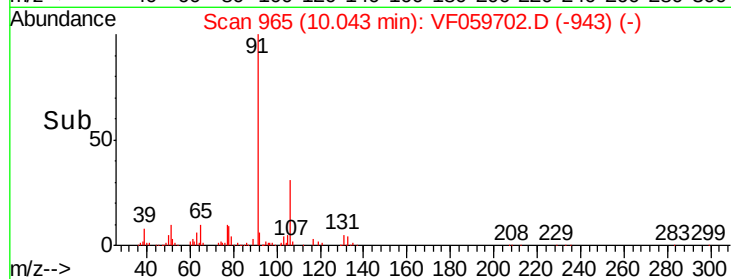
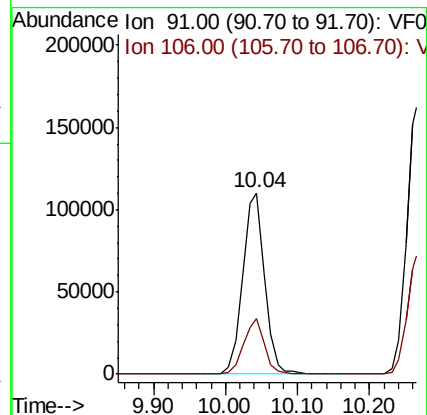
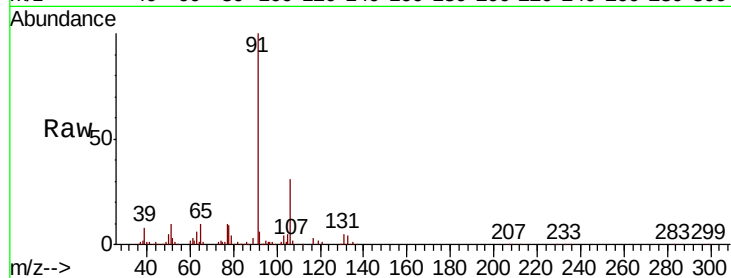
Ion Ratio Lower Upper

91 100

106 30.7 22.9 34.3

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#68

m/p-Xylenes

Concen: 41.995 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.00 min

Lab File: VF059702.D

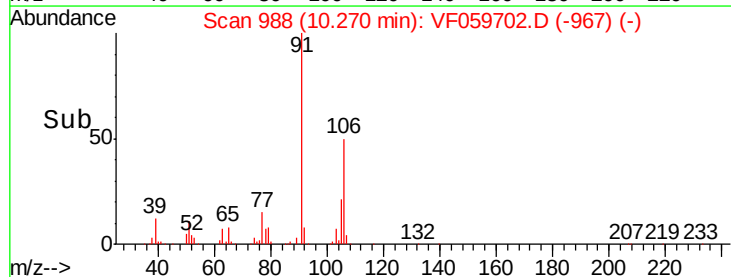
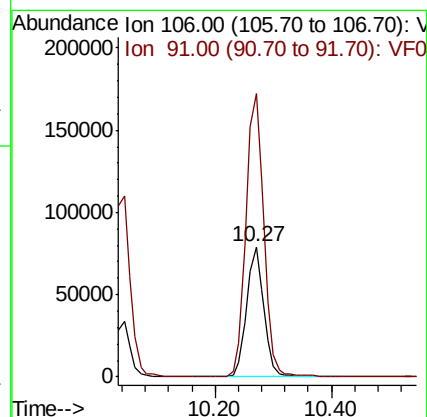
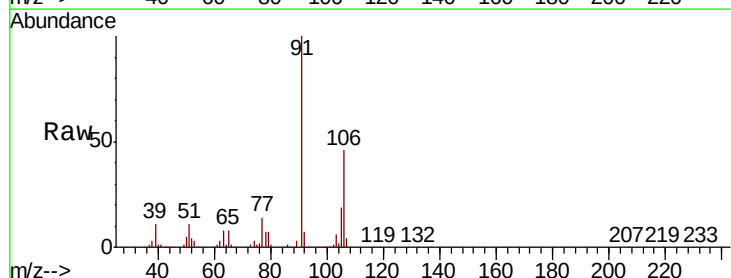
Acq: 31 Jul 2018 11:56

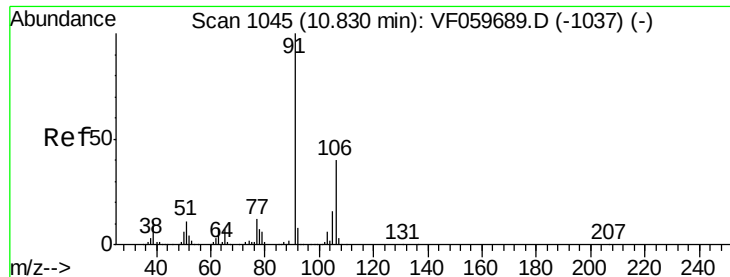
Tgt Ion: 106 Resp: 162792

Ion Ratio Lower Upper

106 100

91 217.7 181.7 272.5





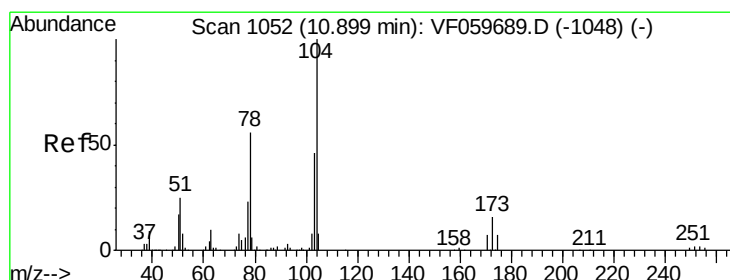
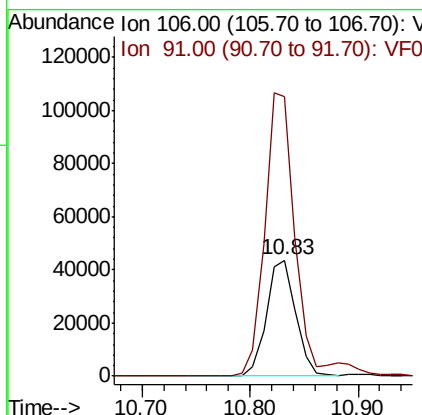
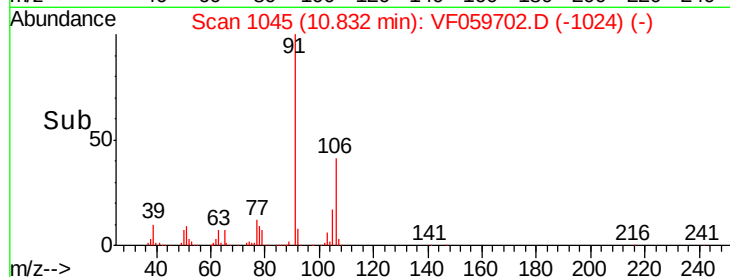
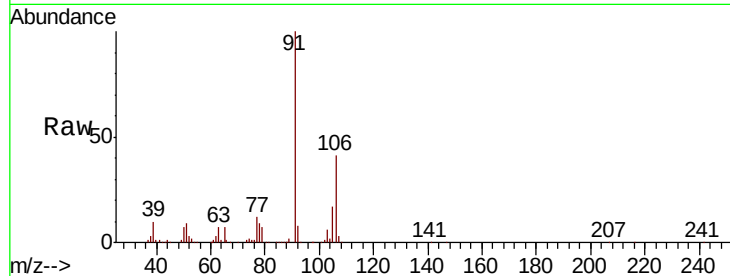
#69
o-Xylene
Concen: 20.148 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion:106 Resp: 83050
Ion Ratio Lower Upper
106 100
91 241.3 124.6 373.7

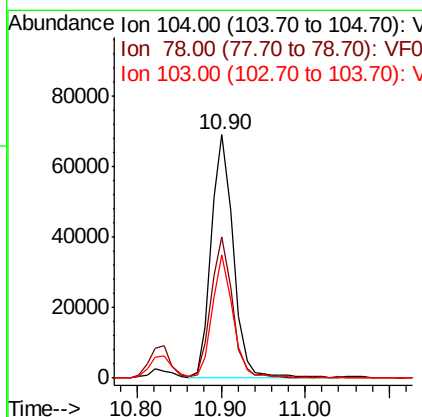
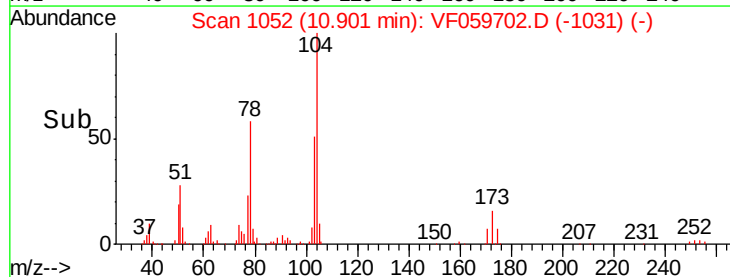
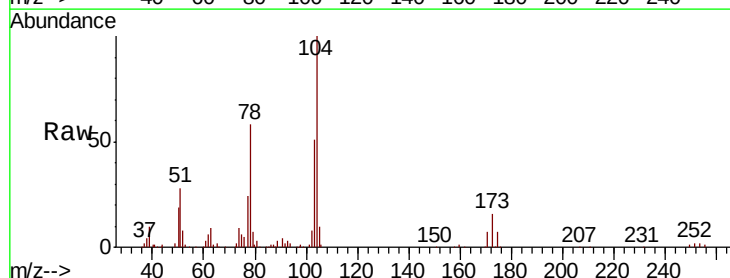
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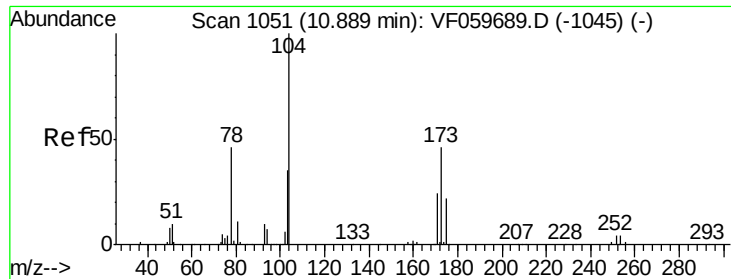
apatel
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#70
Styrene
Concen: 19.967 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion:104 Resp: 124687
Ion Ratio Lower Upper
104 100
78 57.9 45.3 67.9
103 50.8 36.6 54.8





#71

Bromoform

Concen: 17.741 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

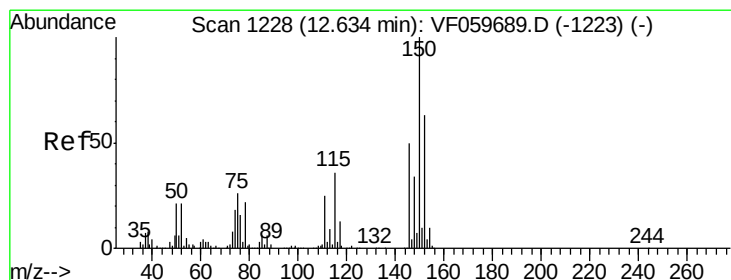
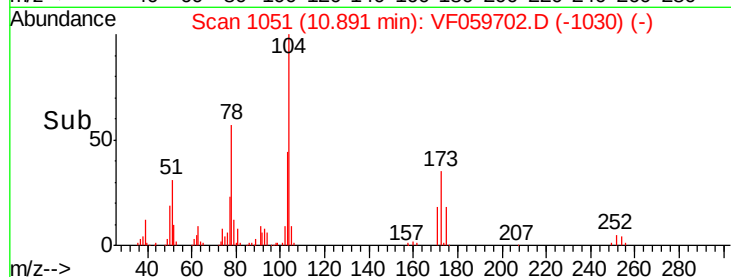
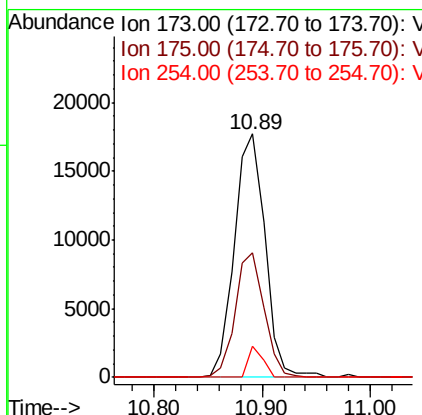
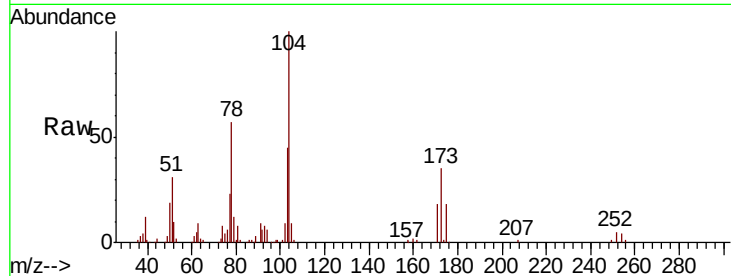
ClientSampleId :

VF0731SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.2	23.4	70.0
254	12.7	0.0	0.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

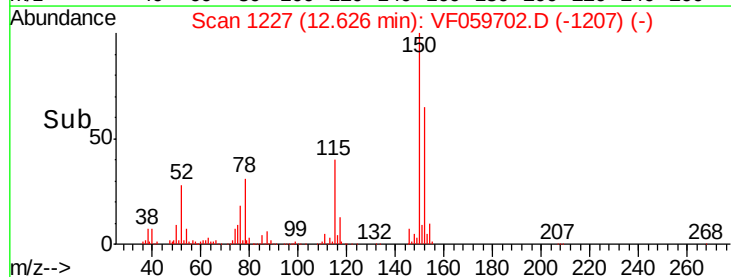
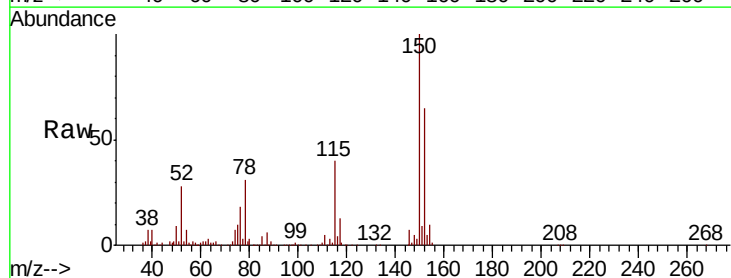
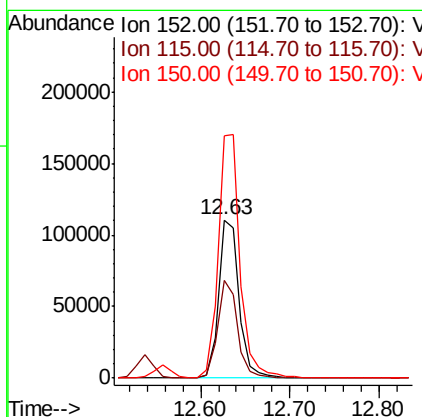
RT: 12.63 min Scan# 1227

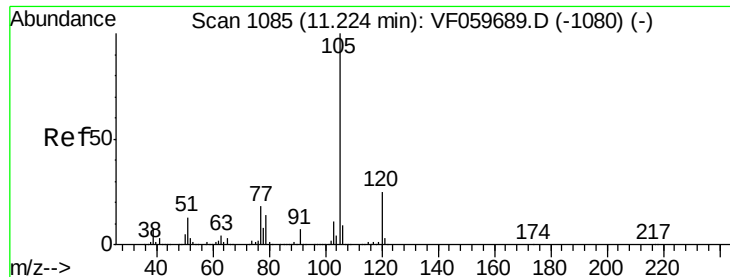
Delta R.T. -0.01 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.8	28.2	84.6
150	153.5	0.0	316.2





#73

Isopropylbenzene

Concen: 23.549 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion:105 Resp: 275306

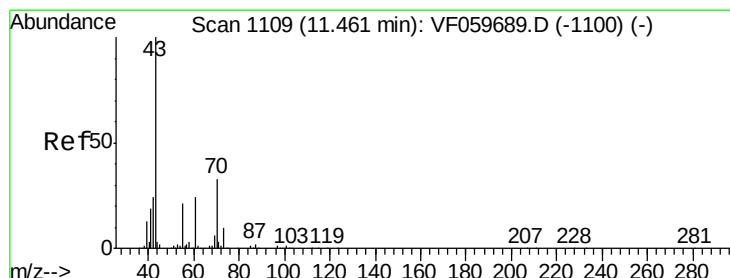
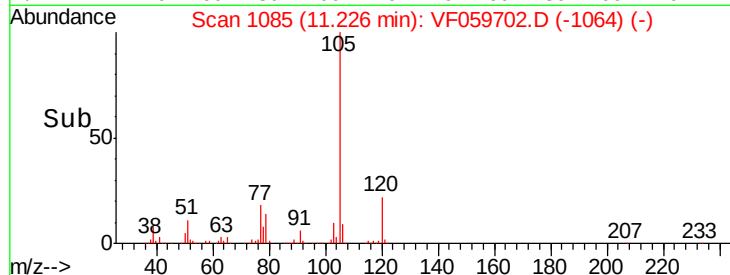
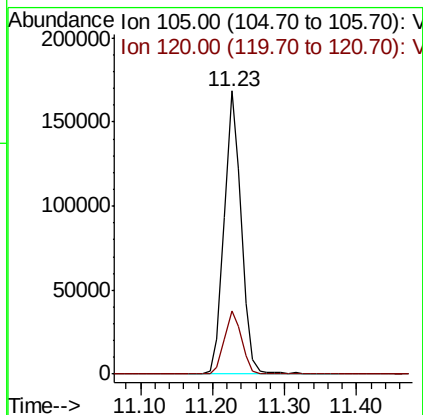
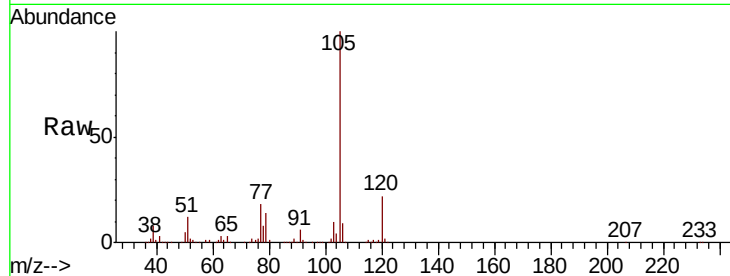
Ion Ratio Lower Upper

105 100

120 22.4 12.4 37.4

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#74

N-ethyl acetate

Concen: 19.829 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion: 43 Resp: 58487

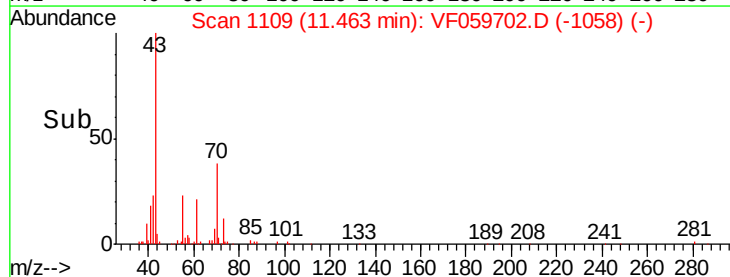
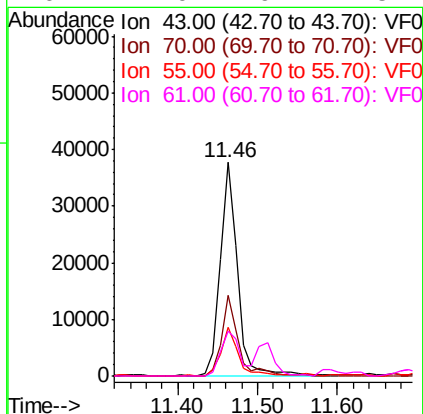
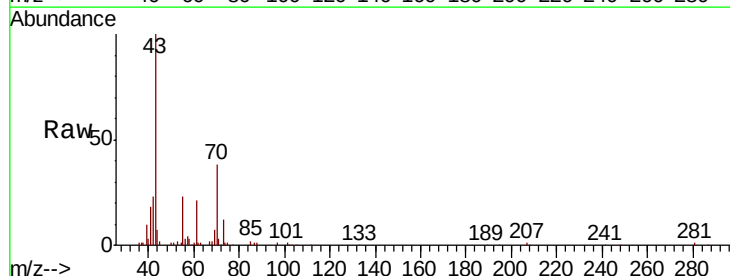
Ion Ratio Lower Upper

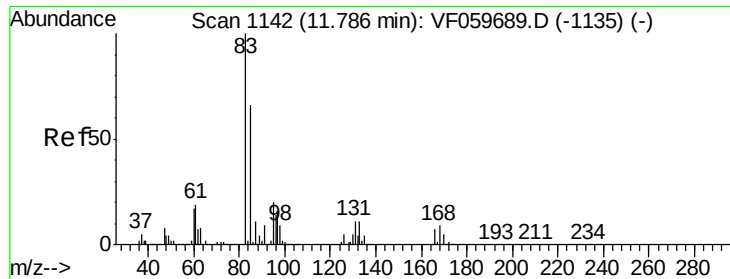
43 100

70 37.7 26.3 39.5

55 23.1 16.6 25.0

61 21.0 19.1 28.7





#75

1,1,2,2-Tetrachloroethane

Concen: 20.524 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

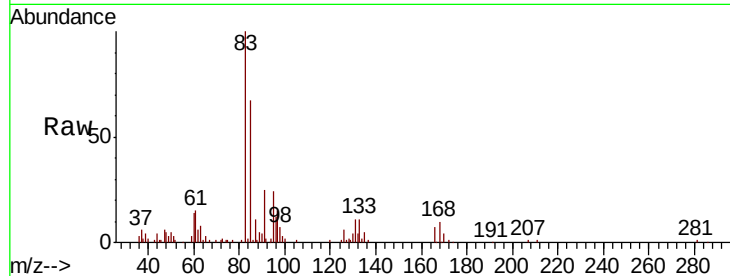
ClientSampleId :

VF0731SBS01

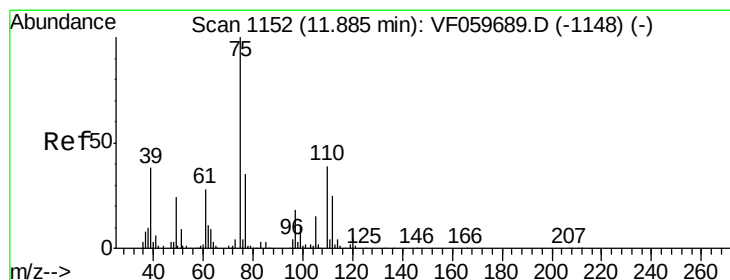
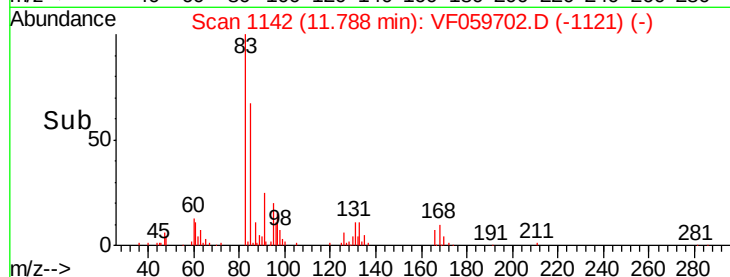
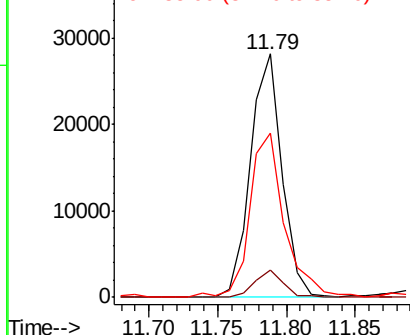
Tot Ion:	83	Resp:	45168
Ion Ratio	Lower	Upper	
83	100		
131	11.4	5.8	17.3
85	67.3	32.8	98.3

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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 22.281 ug/l

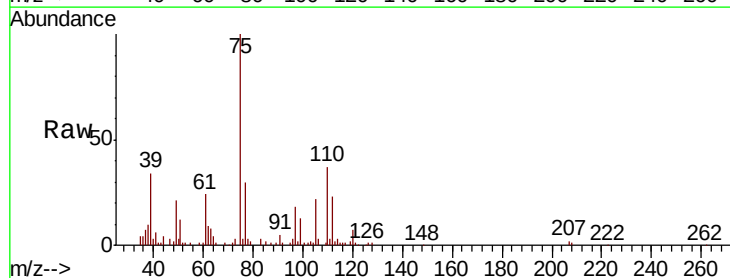
RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

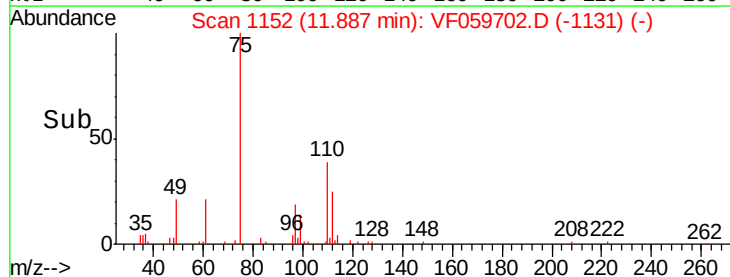
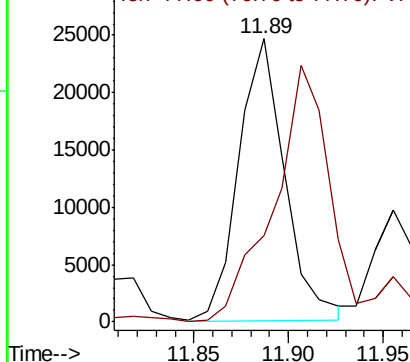
Lab File: VF059702.D

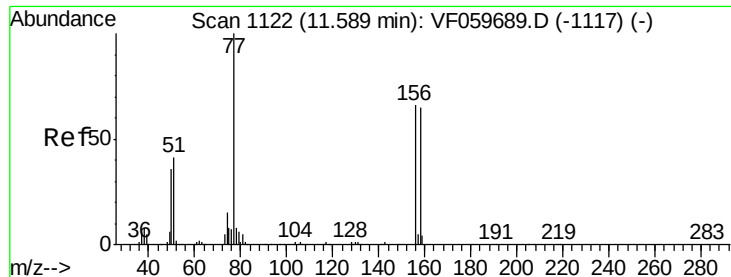
Acq: 31 Jul 2018 11:56

Tgt Ion:	75	Resp:	41696
Ion Ratio	Lower	Upper	
75	100		
77	30.3	18.0	54.0



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 22.152 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

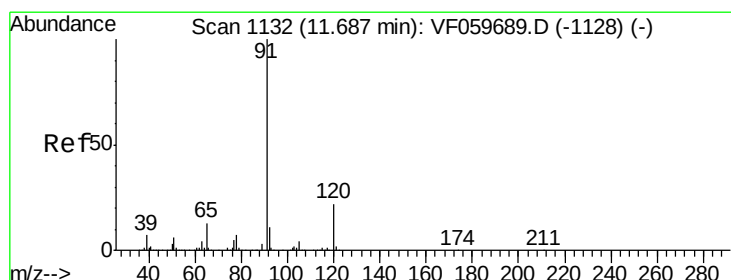
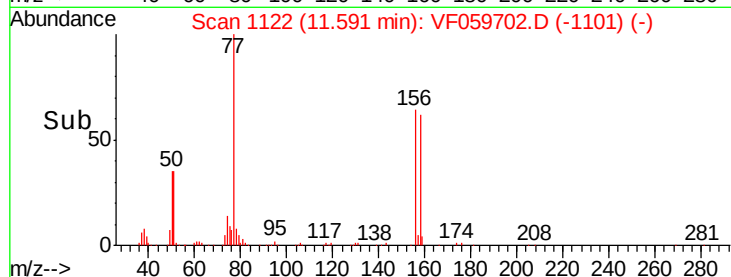
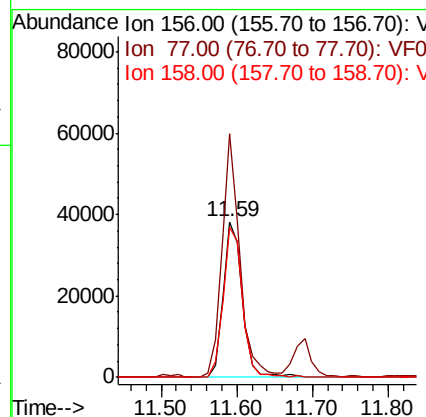
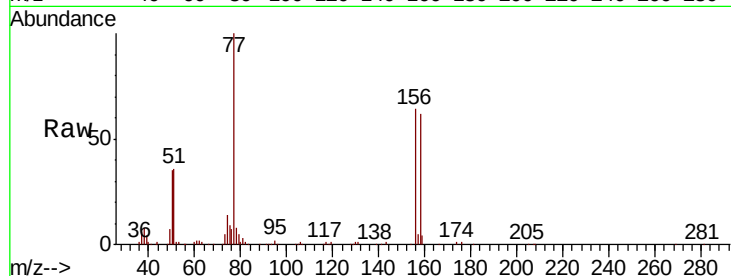
ClientSampleId :

VF0731SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	156.3	75.2	225.6	
158	96.4	49.1	147.3	

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#78

n-propylbenzene

Concen: 24.306 ug/l

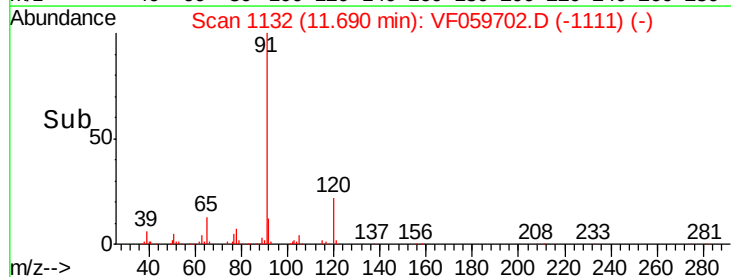
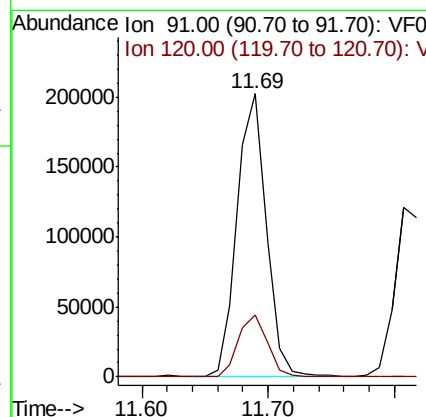
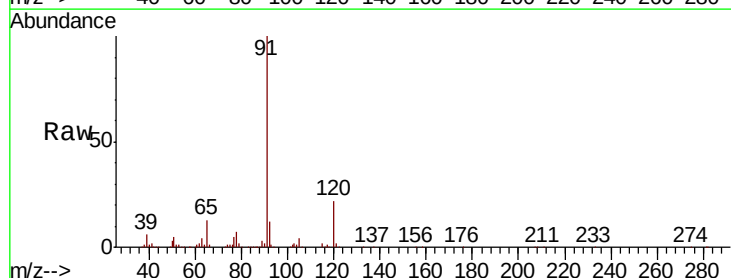
RT: 11.69 min Scan# 1132

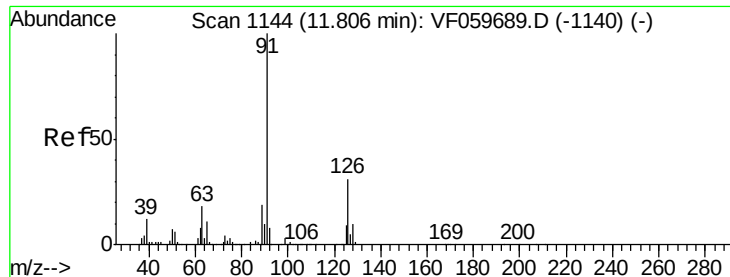
Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.9	11.0	33.0	





#79

2-Chlorotoluene

Concen: 23.950 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion: 91 Resp: 197877

Ion Ratio Lower Upper

91 100

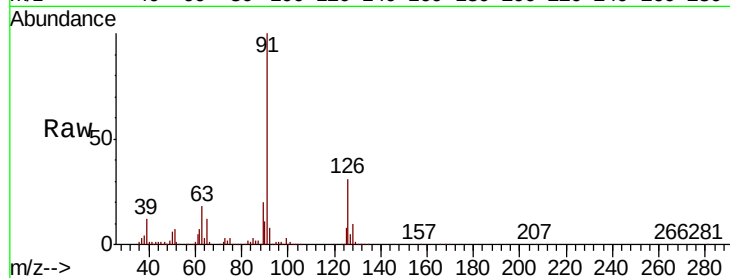
126 30.9 15.4 46.2

Manual Integrations

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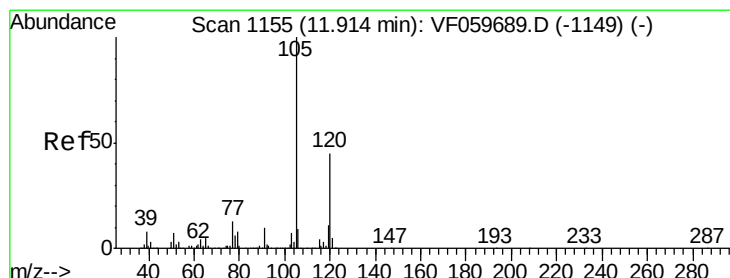
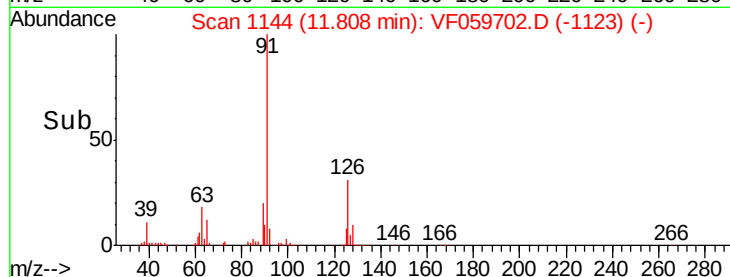
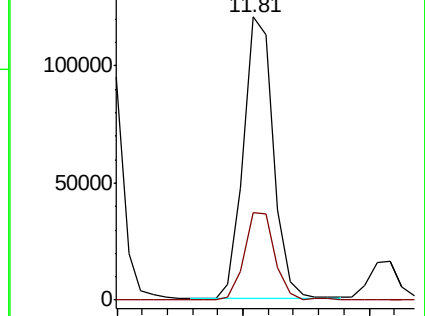
apatel

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 25.122 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VF059702.D

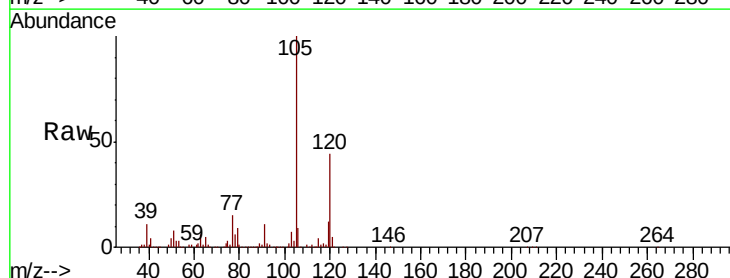
Acq: 31 Jul 2018 11:56

Tgt Ion:105 Resp: 255440

Ion Ratio Lower Upper

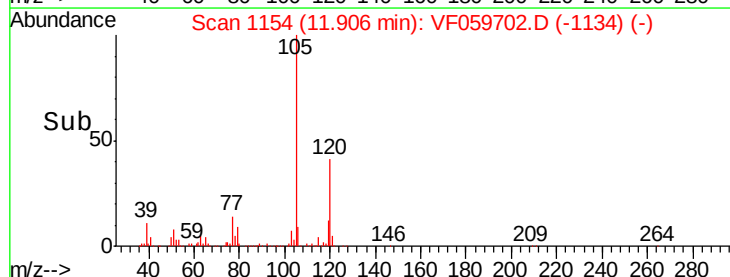
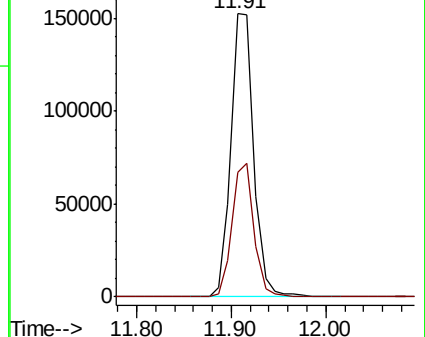
105 100

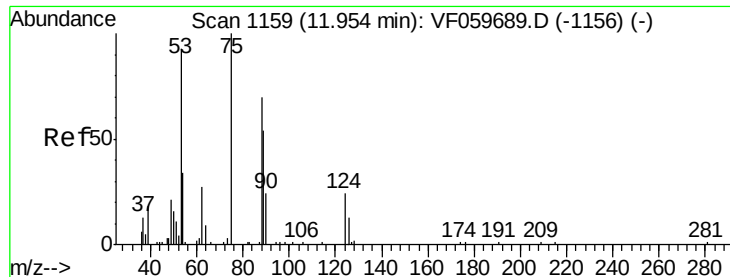
120 44.1 22.7 68.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 28.287 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

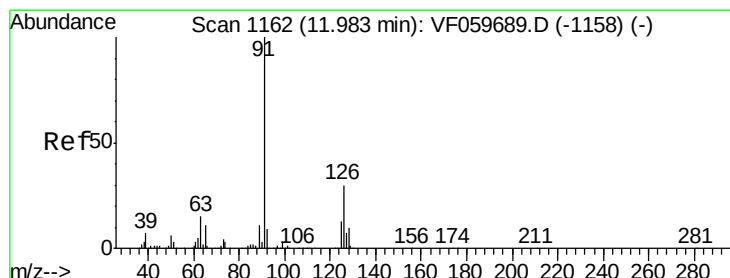
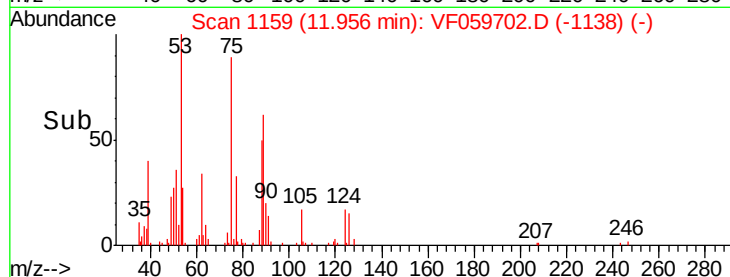
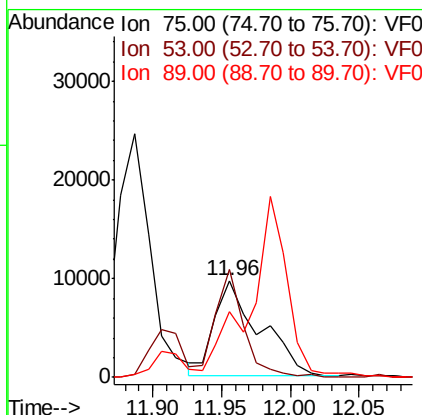
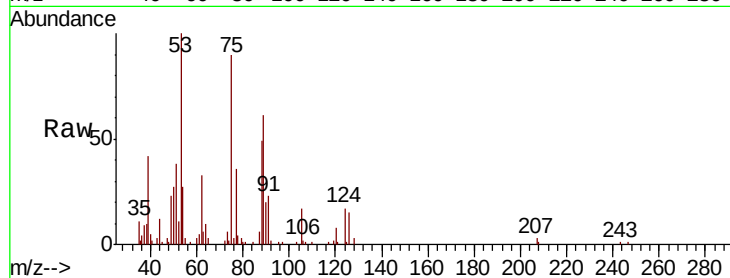
ClientSampleId :

VF0731SBS01

Tot Ion:	75	Resp:	21922
Ion Ratio	Lower	Upper	
75	100		
53	111.5	78.3	117.5
89	68.0	45.4	68.2

Manual Integrations
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#82

4-Chlorotoluene

Concen: 24.471 ug/l

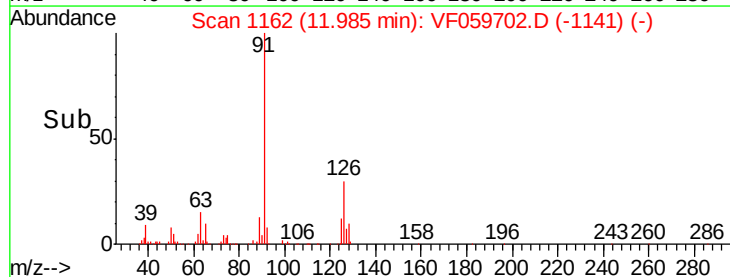
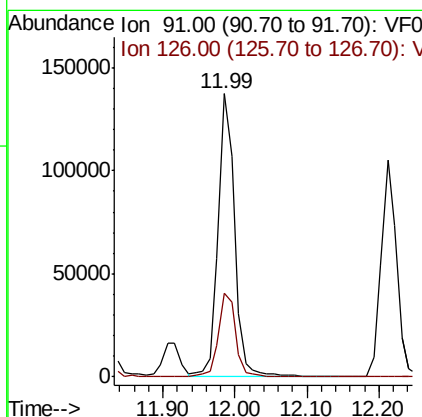
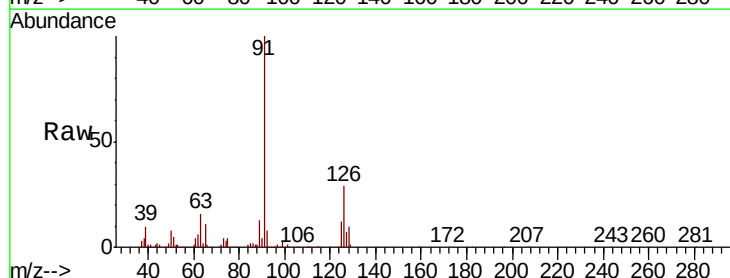
RT: 11.99 min Scan# 1162

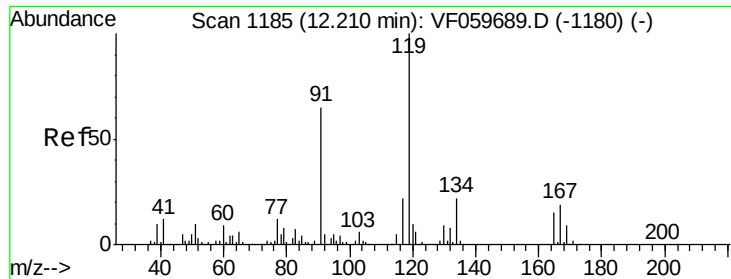
Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion:	91	Resp:	213654
Ion Ratio	Lower	Upper	
91	100		
126	29.5	15.2	45.6





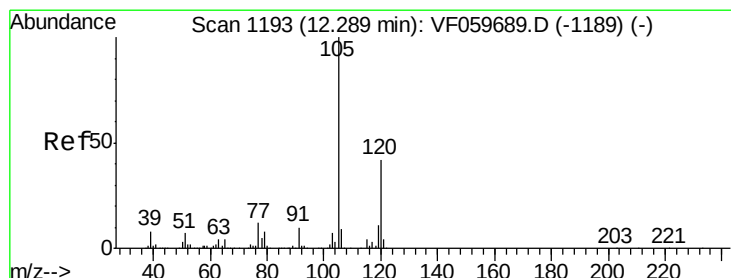
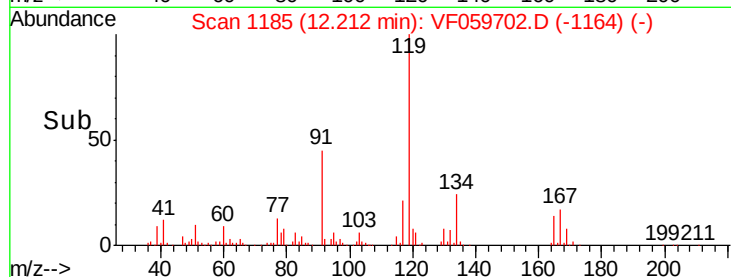
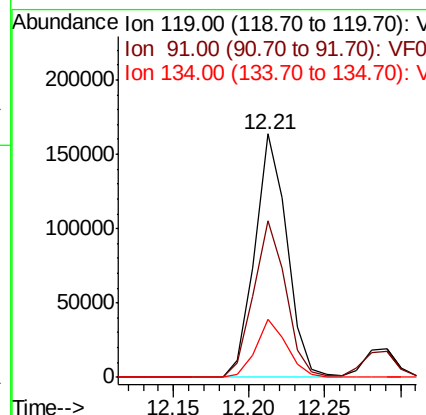
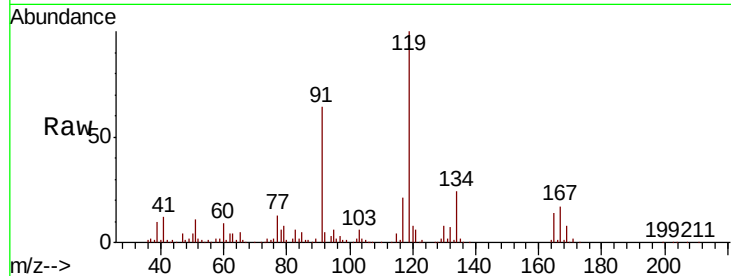
#83
 tert-Butylbenzene
 Concen: 23.270 ug/l
 RT: 12.21 min Scan# 1185
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.2	32.8	98.4
134	24.0	10.9	32.7

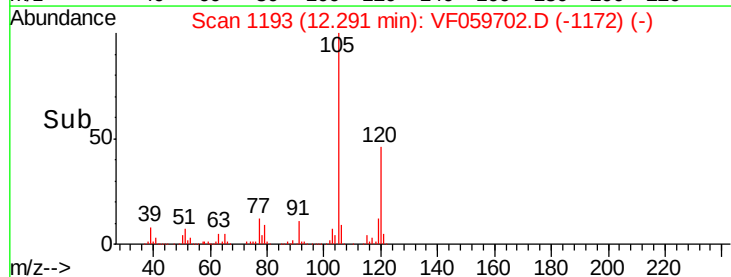
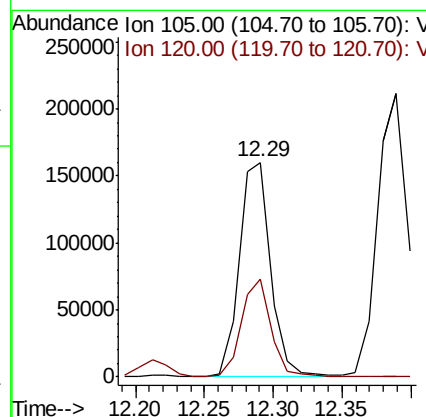
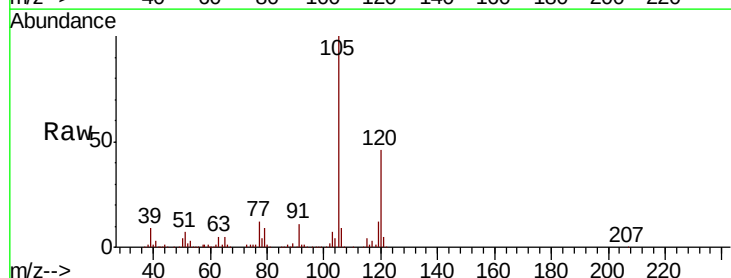
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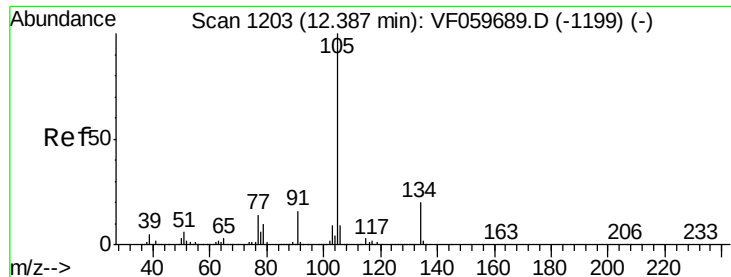
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#84
 1,2,4-Trimethylbenzene
 Concen: 24.613 ug/l
 RT: 12.29 min Scan# 1193
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	21.1	63.3





#85

sec-Butylbenzene

Concen: 24.445 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

ClientSampleId :

VF0731SBS01

Tot Ion:105 Resp: 324806

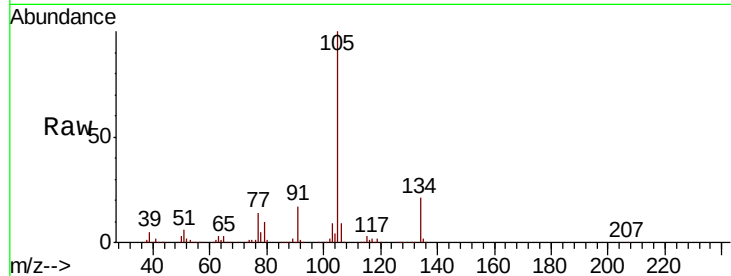
Ion Ratio Lower Upper

105 100

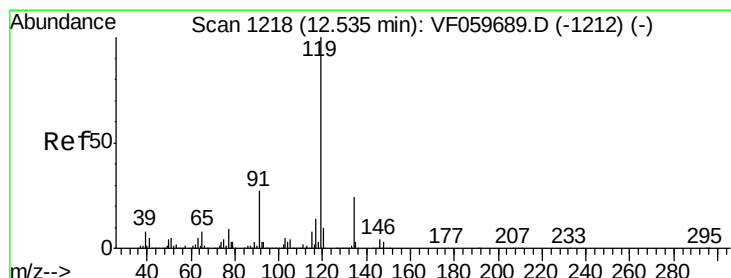
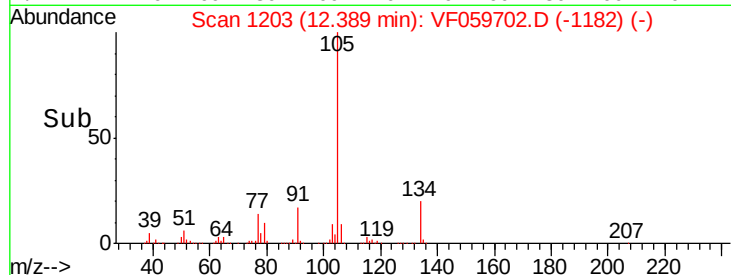
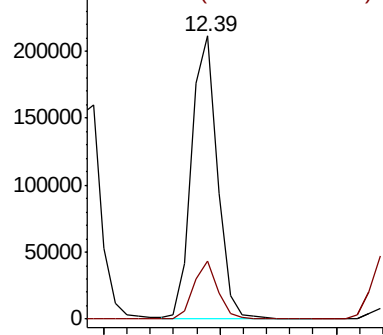
134 20.6 9.8 29.3

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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.692 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

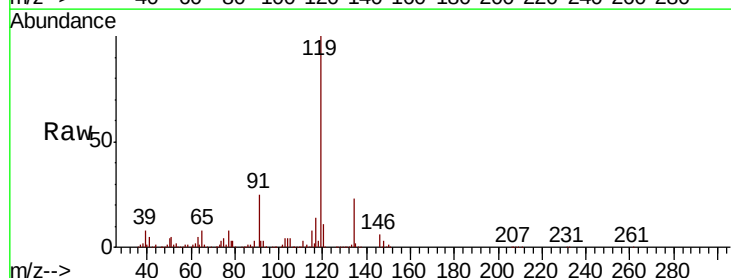
Tgt Ion:119 Resp: 277277

Ion Ratio Lower Upper

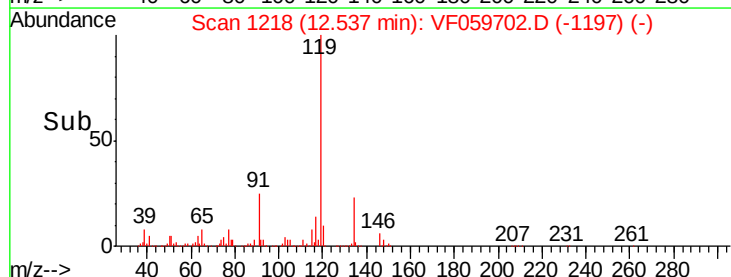
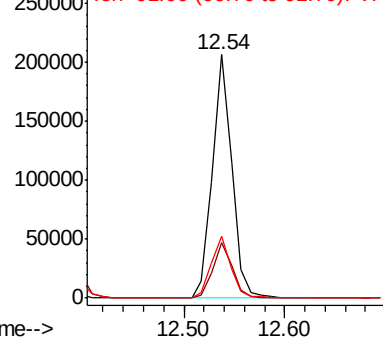
119 100

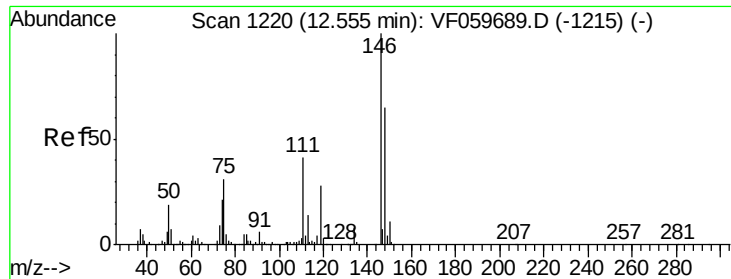
134 23.0 12.2 36.6

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





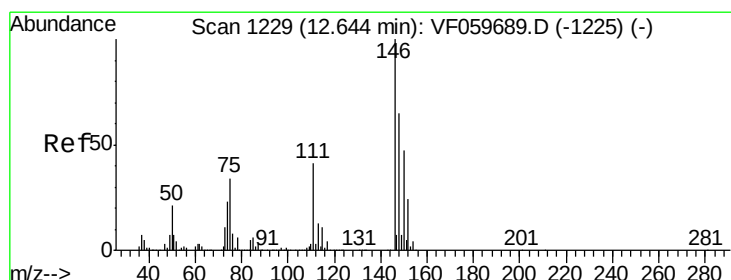
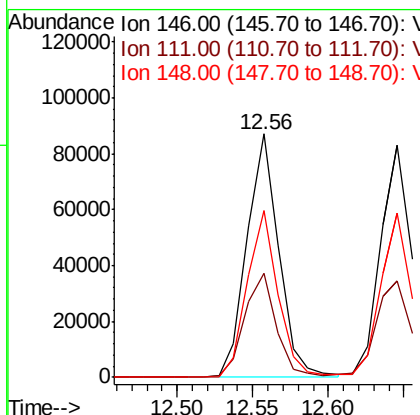
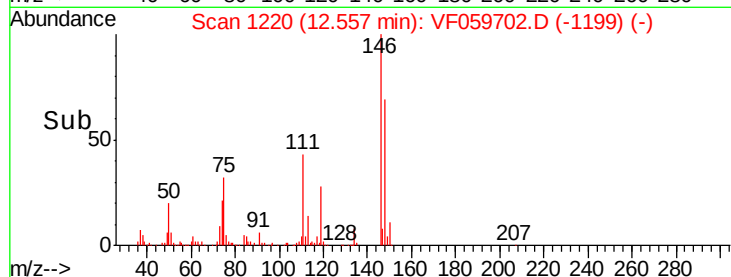
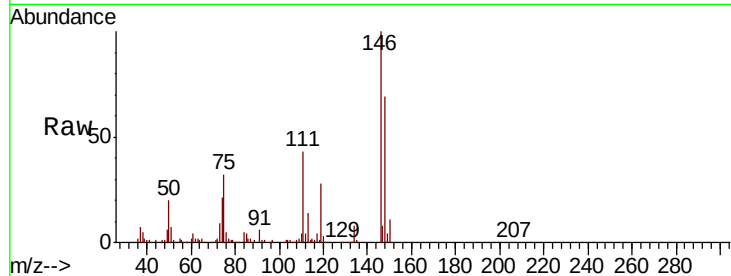
#87
 1,3-Dichlorobenzene
 Concen: 22.650 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.7	62.1
148	68.6	32.3	96.8

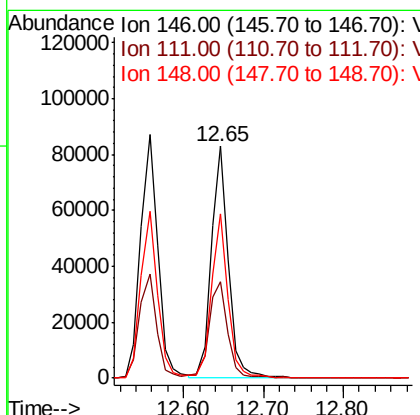
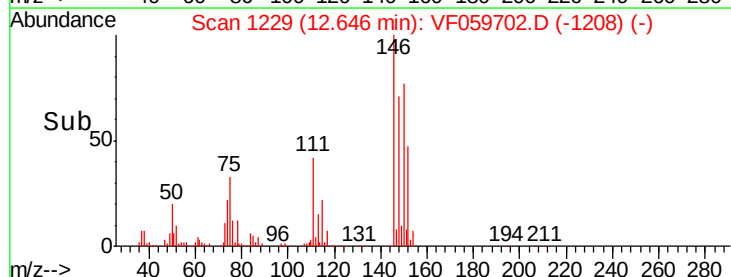
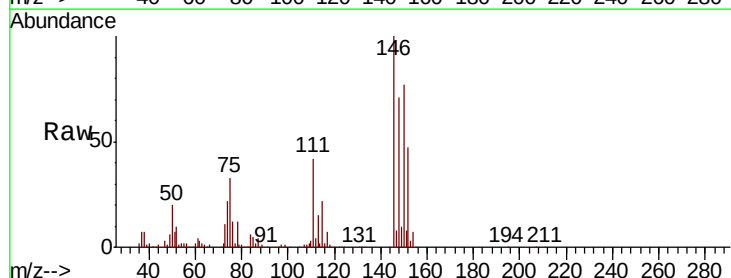
Manual Integrations
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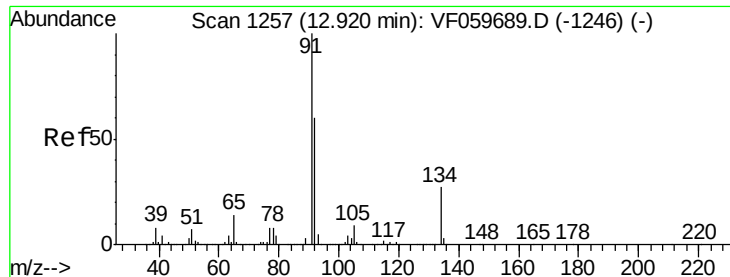
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#88
 1,4-Dichlorobenzene
 Concen: 22.715 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.2
148	71.0	32.3	96.9





#89

n-Butylbenzene

Concen: 23.875 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Instrument :

MSVOA_F

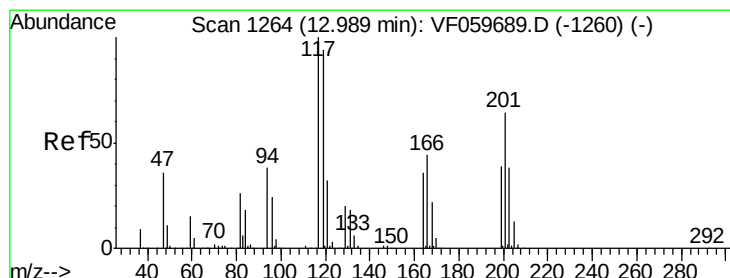
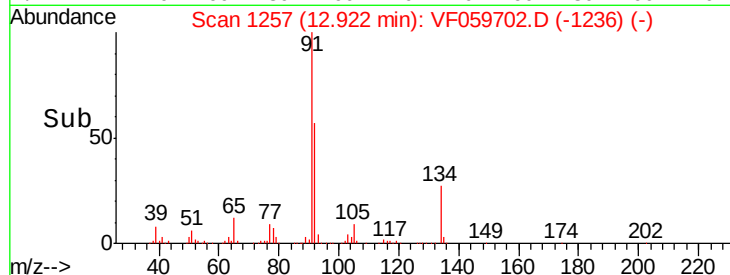
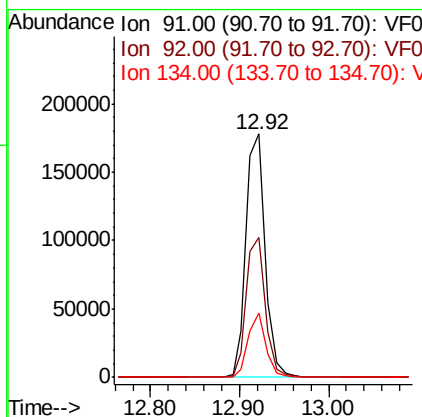
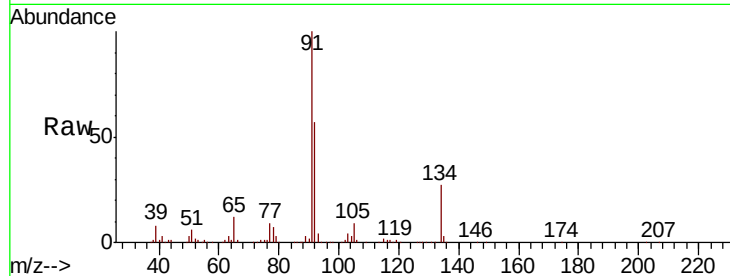
ClientSampleId :

VF0731SBS01

Tot Ion:	91	Resp:	265563
Ion	Ratio	Lower	Upper
91	100		
92	57.2	30.1	90.3
134	26.7	13.7	41.0

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#90

Hexachloroethane

Concen: 24.297 ug/l

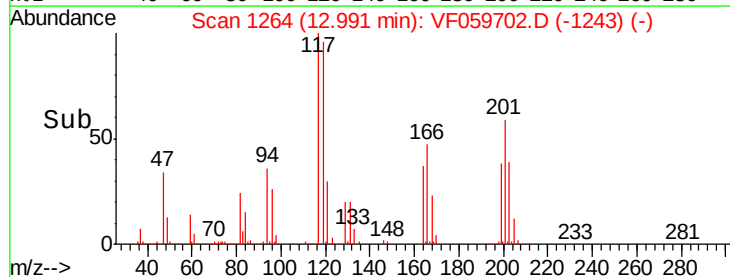
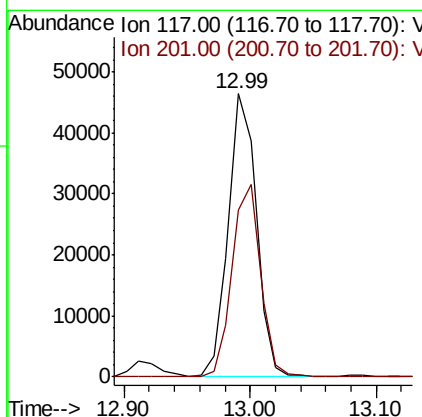
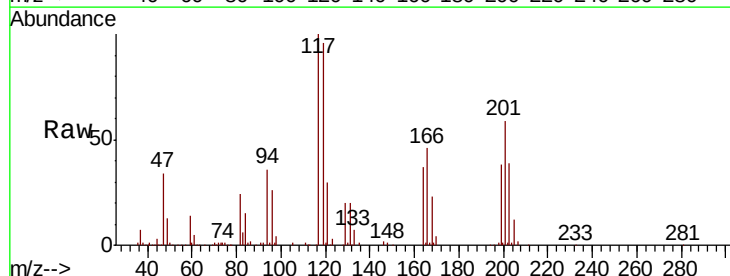
RT: 12.99 min Scan# 1264

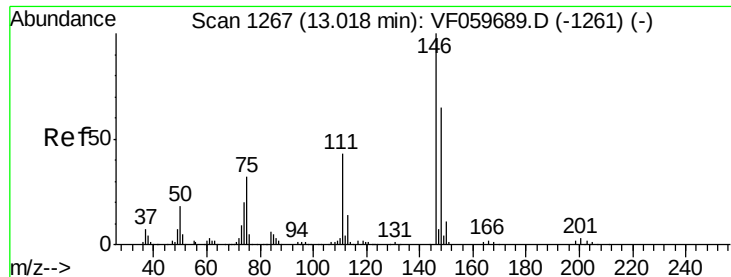
Delta R.T. 0.00 min

Lab File: VF059702.D

Acq: 31 Jul 2018 11:56

Tgt Ion:	117	Resp:	71645
Ion	Ratio	Lower	Upper
117	100		
201	59.0	31.9	95.5





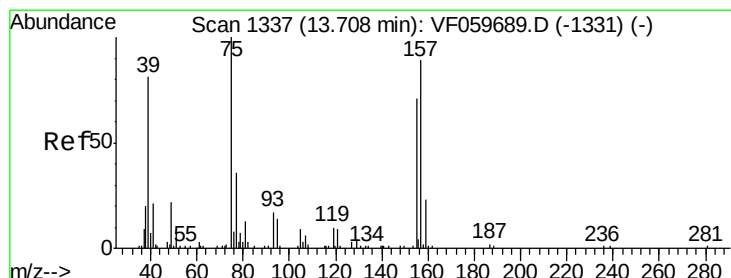
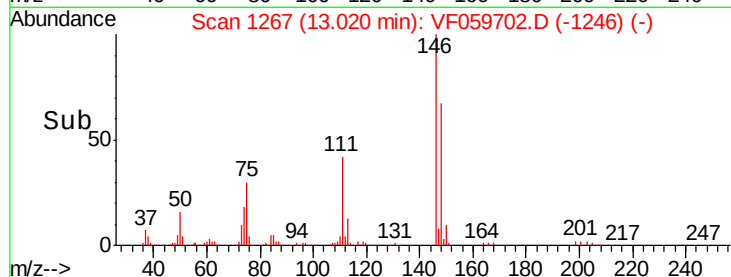
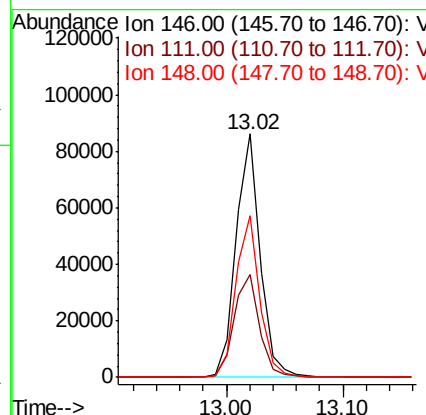
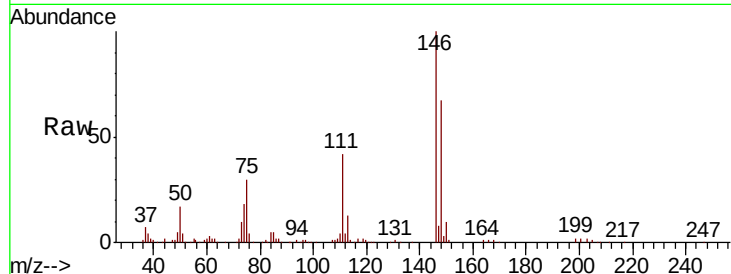
#91
 1,2-Dichlorobenzene
 Concen: 23.059 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0731SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.6	65.0
148	66.6	32.3	96.9

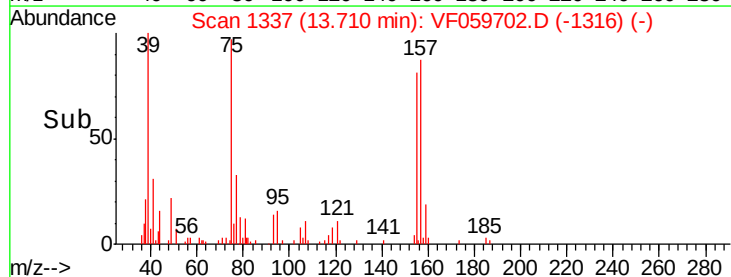
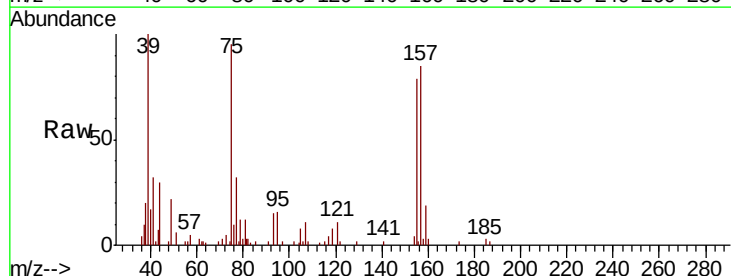
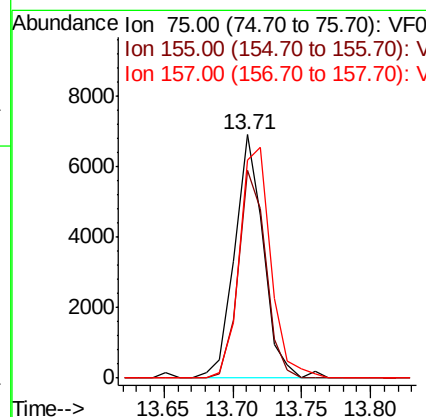
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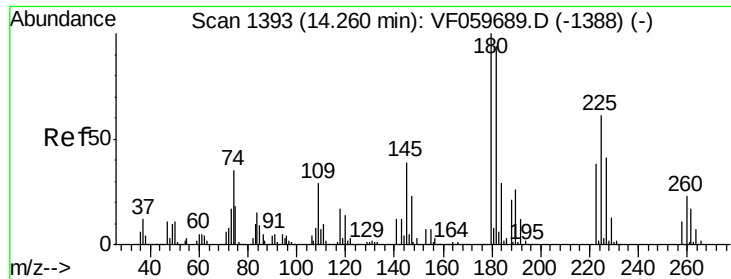
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.779 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VF059702.D
 Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.1	35.4	106.2
157	89.7	44.4	133.2





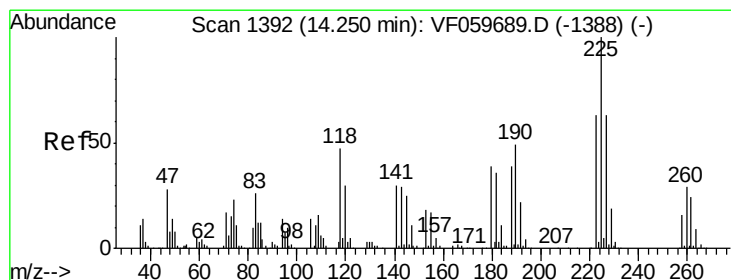
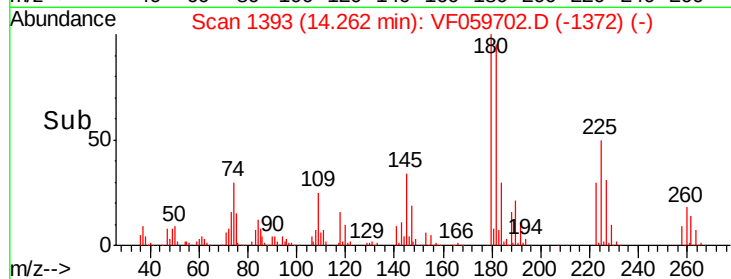
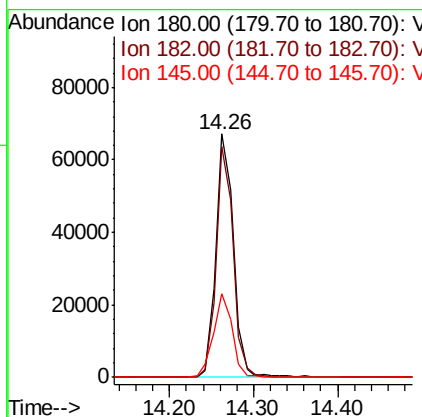
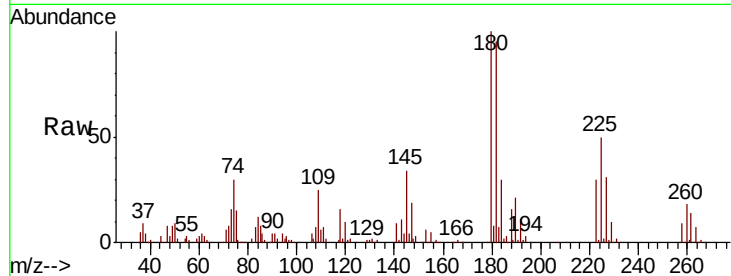
#93
1,2,4-Trichlorobenzene
Concen: 22.601 ug/l
RT: 14.26 min Scan# 1393
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.2	141.6
145	34.5	19.3	57.9

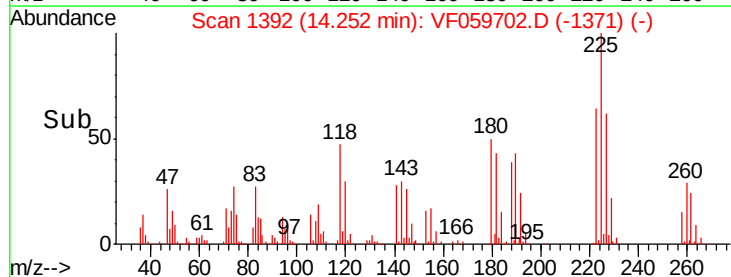
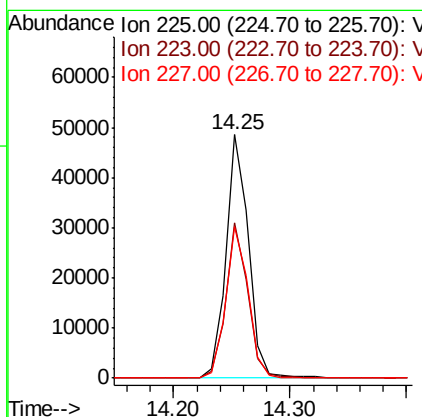
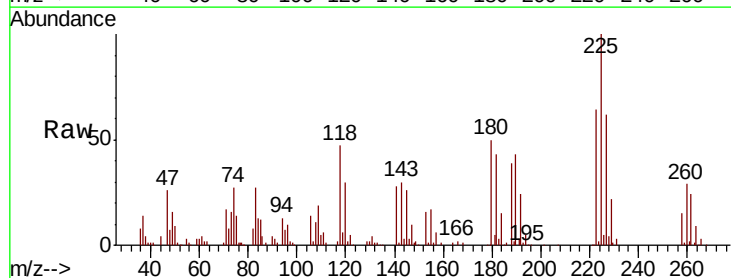
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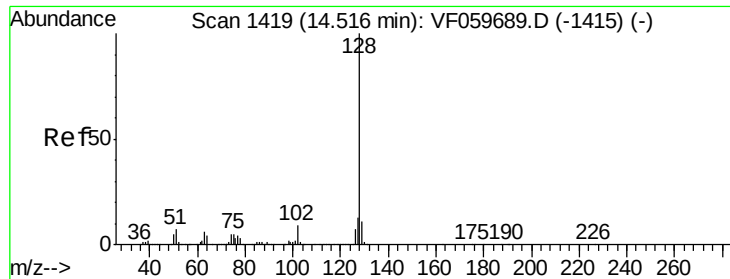
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#94
Hexachlorobutadiene
Concen: 22.107 ug/l
RT: 14.25 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.4	94.2
227	62.3	31.5	94.5





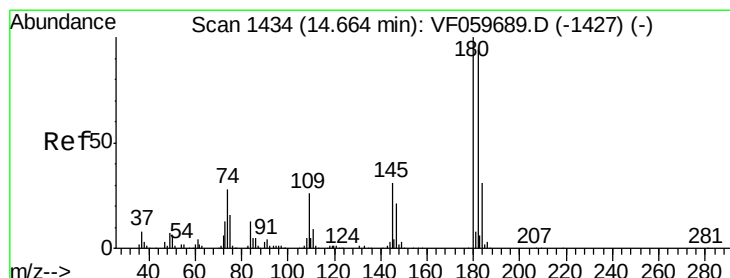
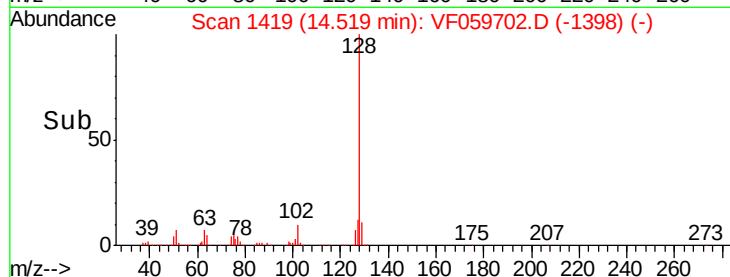
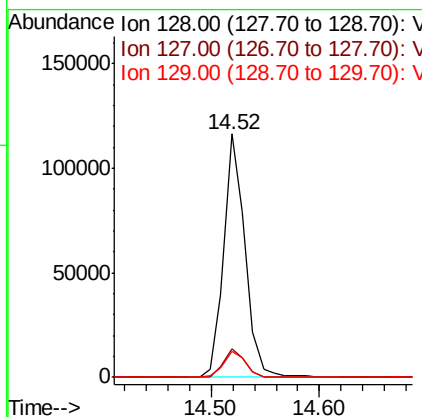
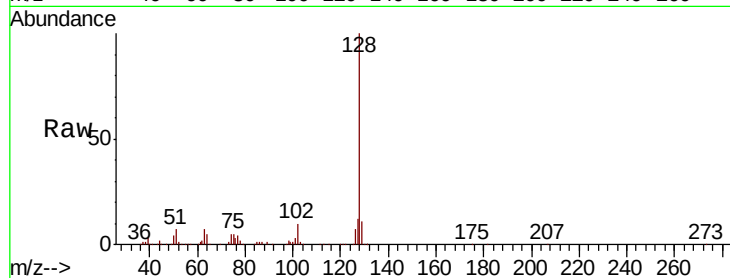
#95
Naphthalene
Concen: 20.756 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Instrument :
MSVOA_F
ClientSampleId :
VF0731SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.0	15.0
129	10.8	8.6	13.0

Manual Integrations
APPROVED

apatel
8/1/2018 2:08:25 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.221 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VF059702.D
Acq: 31 Jul 2018 11:56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.8	47.2	141.6
145	34.3	15.6	46.7

