

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111318\
 Data File : VF060717.D
 Acq On : 13 Nov 2018 19:36
 Operator : VA/AP
 Sample : VF1113SBS02
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS02

Manual Integrations
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sam
 11/14/2018 11:54:01 AM

Quant Time: Nov 14 03:49:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	216981	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	376739	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	345572	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	192511	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	112407	45.42	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	90.84%	
35) Dibromofluoromethane	4.12	113	135926	48.00	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	96.00%	
50) Toluene-d8	7.56	98	345317	47.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.64%	
62) 4-Bromofluorobenzene	11.42	95	169144	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	86649	22.314	ug/l	96
3) Chloromethane	1.10	50	51052	21.199	ug/l	98
4) Vinyl Chloride	1.15	62	47429	22.016	ug/l	93
5) Bromomethane	1.33	94	28140	20.563	ug/l	95
6) Chloroethane	1.38	64	17242	20.456	ug/l	94
7) Trichlorofluoromethane	1.49	101	101002m	21.201	ug/l	
8) Diethyl Ether	1.63	74	12170	19.938	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	1.82	101	48320	21.523	ug/l	95
10) Methyl Iodide	1.89	142	77827m	21.607	ug/l	
11) Tert butyl alcohol	2.58	59	11469	101.824	ug/l #	92
12) 1,1-Dichloroethene	1.79	96	37319	21.082	ug/l	98
13) Acrolein	2.01	56	10216	99.196	ug/l	99
14) Allyl chloride	2.10	41	64130	20.679	ug/l	95
15) Acrylonitrile	2.94	53	26655	111.057	ug/l	93
16) Acetone	2.24	43	48771	92.195	ug/l	100
17) Carbon Disulfide	1.83	76	114337m	21.370	ug/l	
18) Methyl Acetate	2.35	43	17841m	20.539	ug/l	
19) Methyl tert-butyl Ether	2.43	73	84053	19.792	ug/l	95
20) Methylene Chloride	2.19	84	46047m	24.746	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	39766	21.501	ug/l	93
22) Diisopropyl ether	2.81	45	125425	20.949	ug/l	97
23) Vinyl Acetate	3.19	43	288433	102.303	ug/l	96
24) 1,1-Dichloroethane	2.88	63	81387	22.453	ug/l	99
25) 2-Butanone	4.34	43	91331	104.965	ug/l #	91
26) 2,2-Dichloropropane	3.61	77	61351	21.508	ug/l	96
27) cis-1,2-Dichloroethene	3.49	96	66336	21.084	ug/l	98
28) Bromochloromethane	3.72	49	41008	21.769	ug/l	94
29) Tetrahydrofuran	4.08	42	36731	102.341	ug/l	93
30) Chloroform	3.86	83	118827	20.432	ug/l	97
31) Cyclohexane	3.69	56	96646	21.968	ug/l	93
32) 1,1,1-Trichloroethane	4.10	97	99634	21.755	ug/l	97
36) 1,1-Dichloropropene	4.29	75	93270	21.347	ug/l	98
37) Ethyl Acetate	4.11	43	33309	20.505	ug/l	99
38) Carbon Tetrachloride	4.00	117	89555	21.124	ug/l	94

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	103734	20.464	ug/l	97
40) Benzene	4.64	78	204896	21.037	ug/l	99
41) Methacrylonitrile	4.75	41	20001	20.543	ug/l	95
42) 1,2-Dichloroethane	4.95	62	65277	19.394	ug/l	97
43) Isopropyl Acetate	6.97	43	43491	20.193	ug/l #	92
44) Trichloroethene	5.51	130	63918	20.800	ug/l	95
45) 1,2-Dichloropropane	6.24	63	50657	19.987	ug/l	98
46) Dibromomethane	6.09	93	31437	18.791	ug/l	93
47) Bromodichloromethane	6.40	83	86059	20.144	ug/l	99
48) Methyl methacrylate	6.72	41	27649	19.397	ug/l	96
49) 1,4-Dioxane	6.72	88	5899	442.508	ug/l #	85
51) 4-Methyl-2-Pentanone	8.26	43	161192	103.481	ug/l	97
52) Toluene	7.63	92	126393	19.365	ug/l	93
53) t-1,3-Dichloropropene	8.28	75	66846	19.535	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	88109	19.823	ug/l	98
55) 1,1,2-Trichloroethane	8.50	97	37334	20.020	ug/l	97
56) Ethyl methacrylate	8.63	69	43339	20.463	ug/l	97
57) 1,3-Dichloropropane	8.85	76	62324	19.284	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.63	63	19882	102.767	ug/l	100
59) 2-Hexanone	9.49	43	115474	105.484	ug/l	97
60) Dibromochloromethane	8.73	129	50549	19.020	ug/l	98
61) 1,2-Dibromoethane	8.99	107	37267	19.002	ug/l	95
64) Tetrachloroethene	8.16	164	53897	19.695	ug/l	98
65) Chlorobenzene	9.80	112	140962	20.214	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.94	131	58626	19.275	ug/l	98
67) Ethyl Benzene	9.91	91	264017	20.086	ug/l	93
68) m/p-Xylenes	10.14	106	220243	46.886	ug/l	97
69) o-Xylene	10.72	106	107707	20.394	ug/l	99
70) Styrene	10.80	104	147024	20.513	ug/l	99
71) Bromoform	10.78	173	26583	19.436	ug/l #	86
73) Isopropylbenzene	11.13	105	326310	21.058	ug/l	98
74) N-amyl acetate	11.38	43	76529	21.694	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.70	83	53738	20.976	ug/l	97
76) 1,2,3-Trichloropropane	11.80	75	35821	18.826	ug/l	93
77) Bromobenzene	11.50	156	65517	20.312	ug/l	94
78) n-propylbenzene	11.60	91	370327	20.491	ug/l	95
79) 2-Chlorotoluene	11.72	91	215824	20.547	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	271340	22.056	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.87	75	17904m	19.154	ug/l	
82) 4-Chlorotoluene	11.90	91	218681	20.322	ug/l	97
83) tert-Butylbenzene	12.14	119	269137	20.604	ug/l	98
84) 1,2,4-Trimethylbenzene	12.21	105	257253	20.219	ug/l	96
85) sec-Butylbenzene	12.31	105	367455	20.738	ug/l	97
86) p-Isopropyltoluene	12.46	119	315235	21.301	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	132816	20.691	ug/l	95
88) 1,4-Dichlorobenzene	12.57	146	125030	20.267	ug/l	93
89) n-Butylbenzene	12.85	91	317142	20.999	ug/l	96
90) Hexachloroethane	12.92	117	77489	21.408	ug/l	87
91) 1,2-Dichlorobenzene	12.95	146	128212	21.214	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.65	75	9075	18.847	ug/l	77

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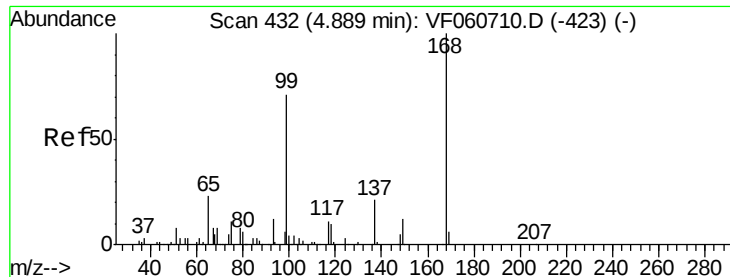
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	90021	20.723	µg/l	93
94) Hexachlorobutadiene	14.19	225	58692	20.676	µg/l	94
95) Naphthalene	14.46	128	164754	20.785	µg/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	80713	20.107	µg/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion:168 Resp: 216981

Ion Ratio Lower Upper

168 100

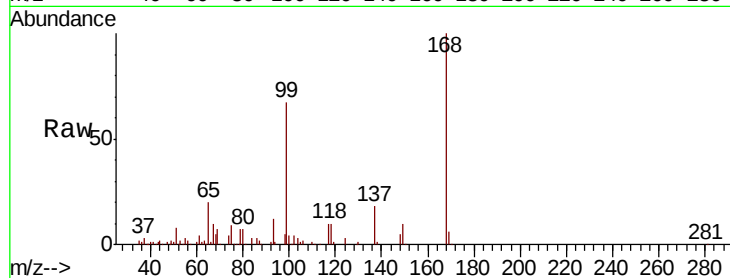
99 66.6 57.2 85.8

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

80000

60000

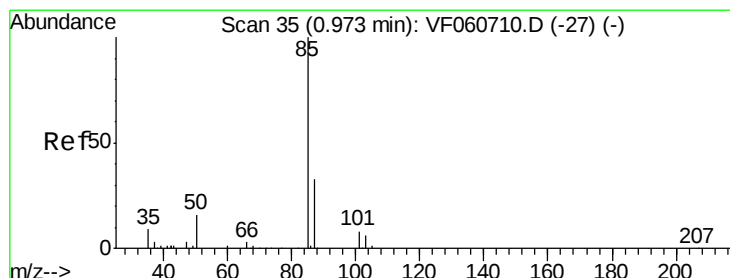
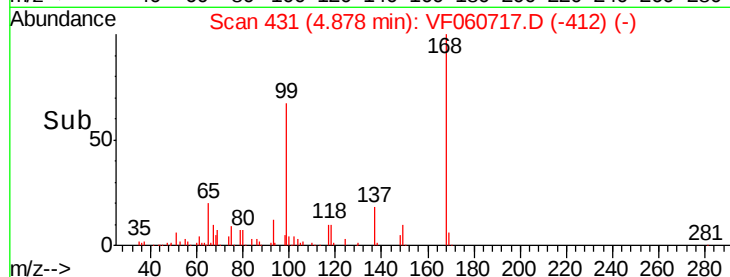
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 22.314 ug/l

RT: 0.97 min Scan# 35

Delta R.T. -0.00 min

Lab File: VF060717.D

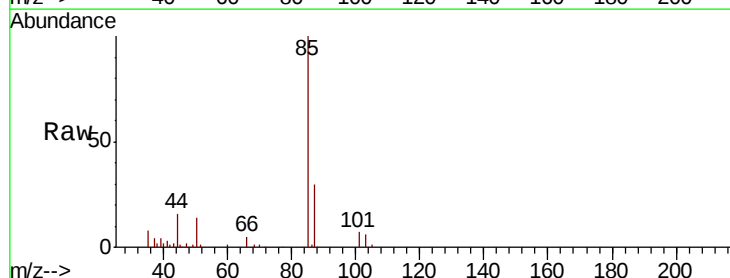
Acq: 13 Nov 2018 19:36

Tgt Ion: 85 Resp: 86649

Ion Ratio Lower Upper

85 100

87 30.2 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

25000

20000

15000

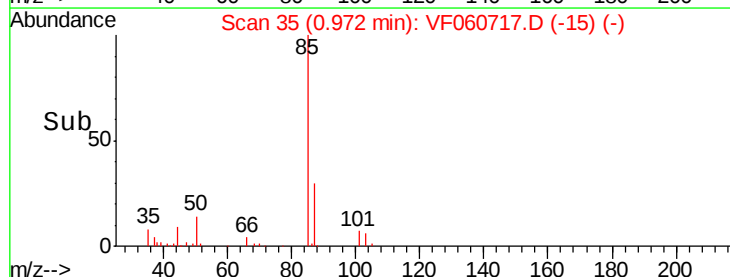
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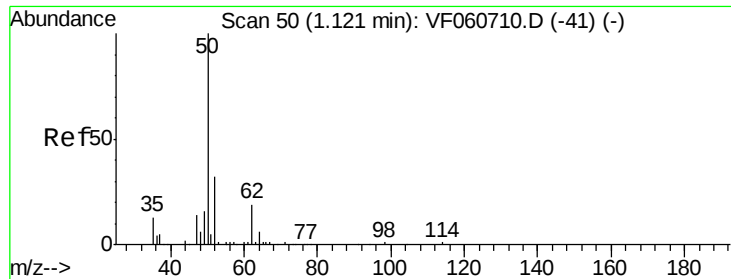
5000

0

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 21.199 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.02 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 50 Resp: 51052

Ion Ratio Lower Upper

50 100

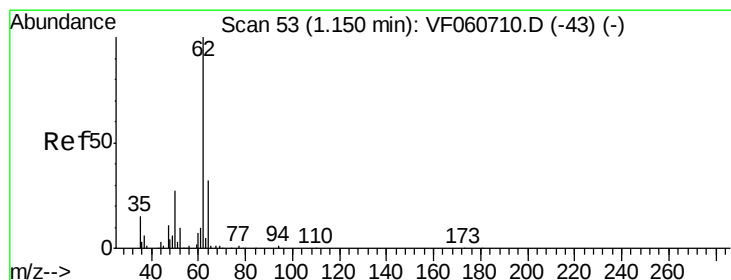
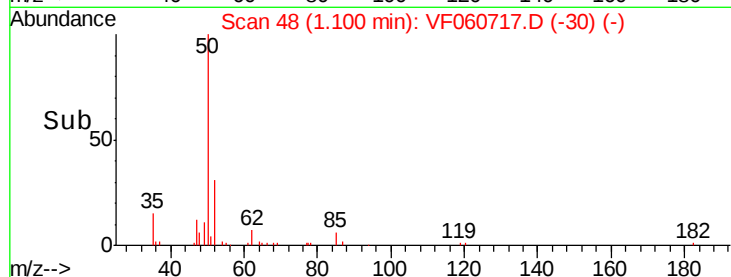
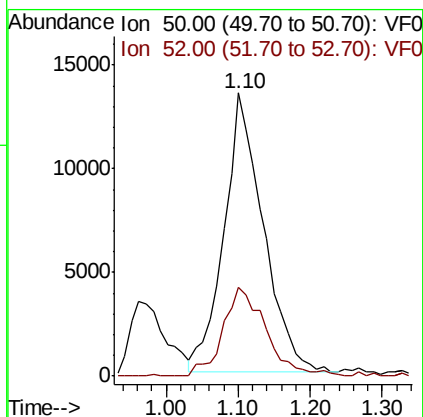
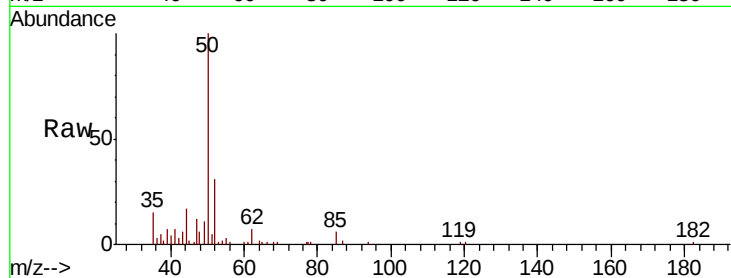
52 31.4 24.2 36.2

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#4

Vinyl Chloride

Concen: 22.016 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF060717.D

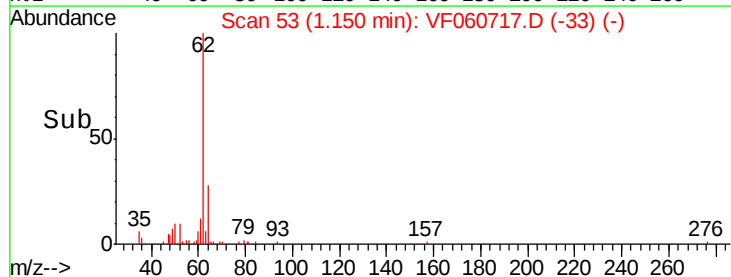
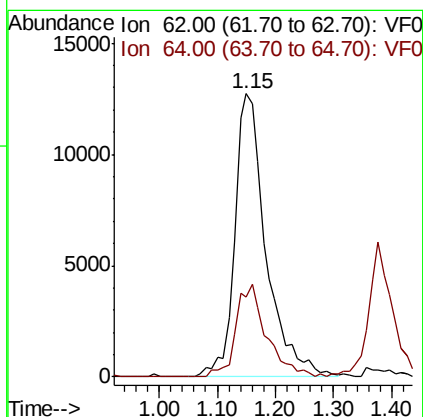
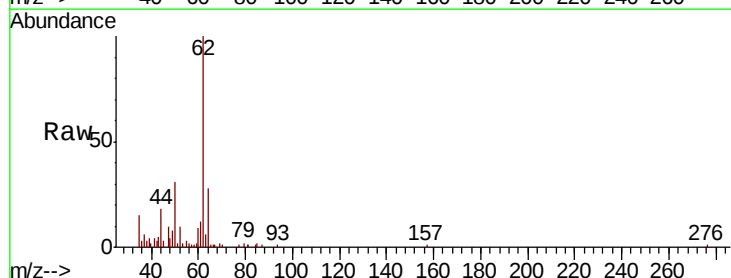
Acq: 13 Nov 2018 19:36

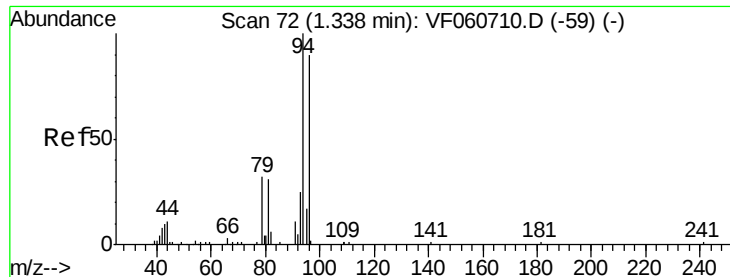
Tgt Ion: 62 Resp: 47429

Ion Ratio Lower Upper

62 100

64 28.2 25.8 38.8





#5

Bromomethane

Concen: 20.563 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 94 Resp: 28140

Ion Ratio Lower Upper

94 100

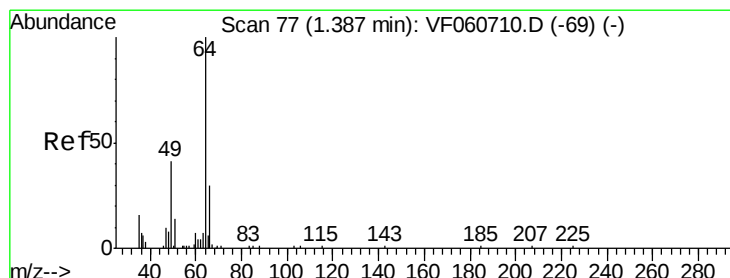
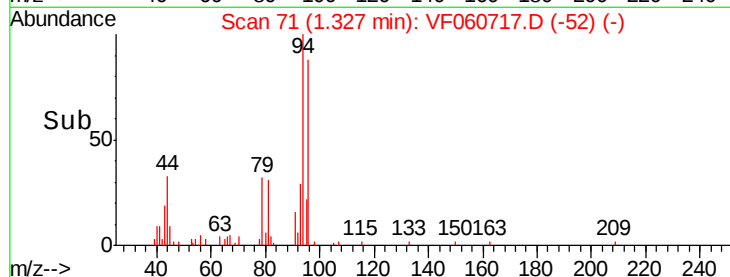
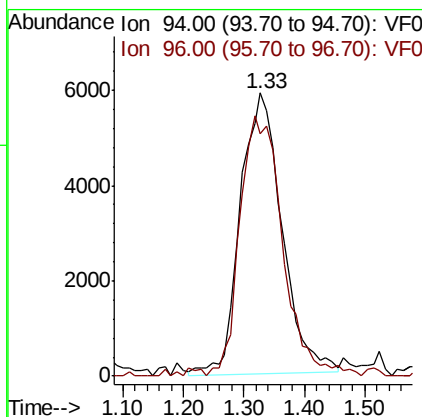
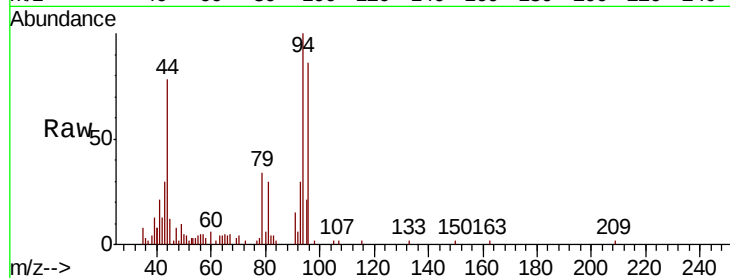
96 85.6 71.9 107.9

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#6

Chloroethane

Concen: 20.456 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF060717.D

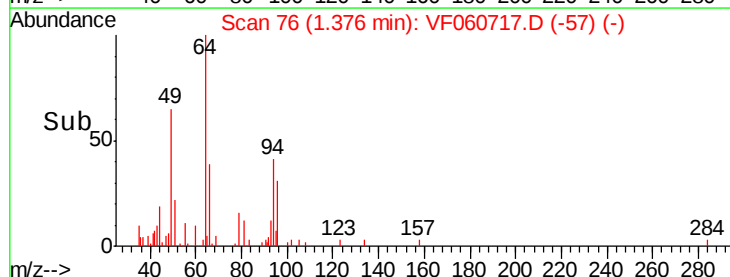
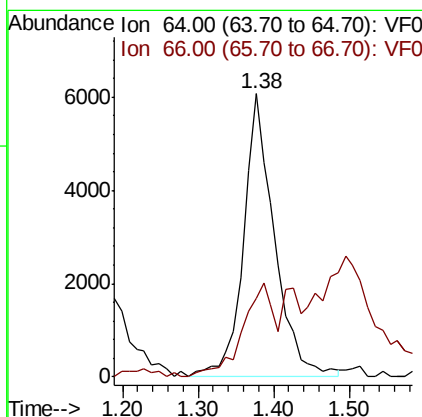
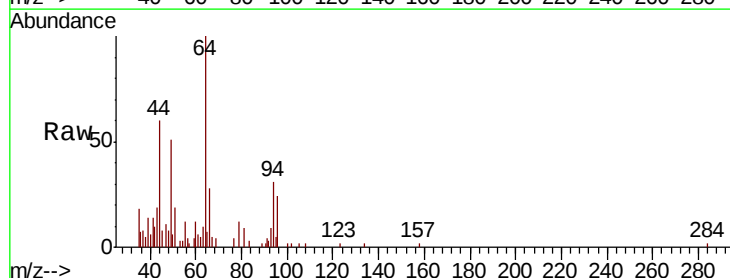
Acq: 13 Nov 2018 19:36

Tgt Ion: 64 Resp: 17242

Ion Ratio Lower Upper

64 100

66 27.9 24.8 37.2





#7

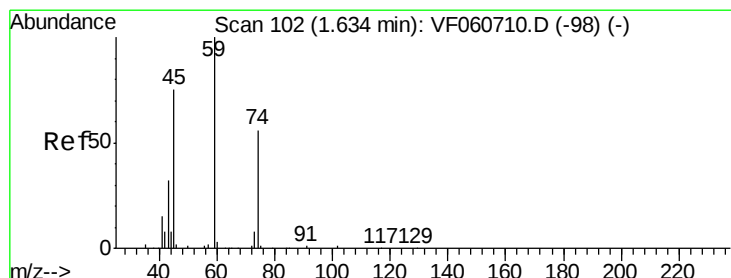
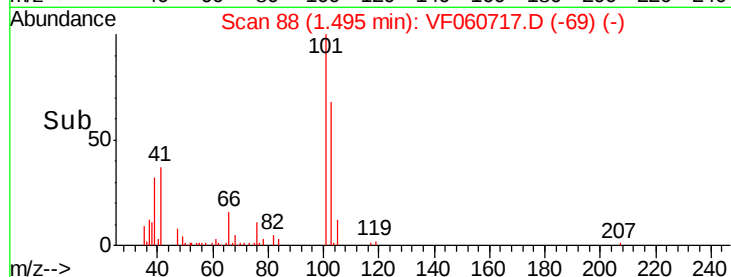
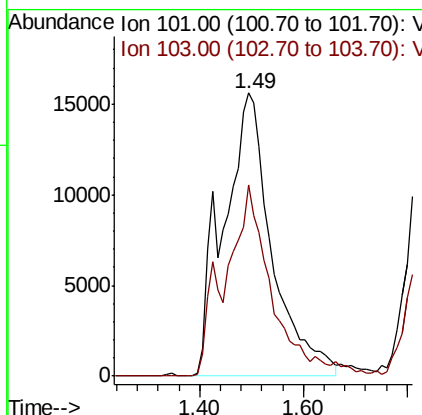
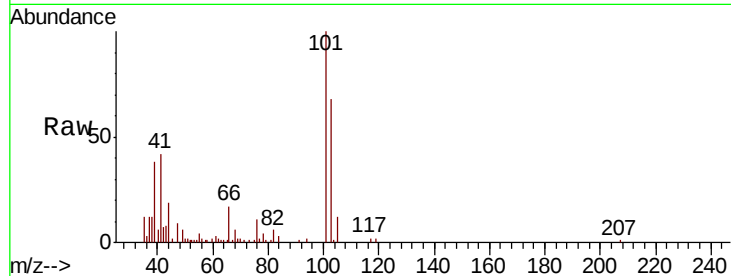
Trichlorofluoromethane
Concen: 21.201 ug/l m
RT: 1.49 min Scan# 88
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
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ClientSampleId :
VF1113SBS02

Tot Ion:101 Resp: 101002
Ion Ratio Lower Upper
101 100
103 67.5 53.1 79.7

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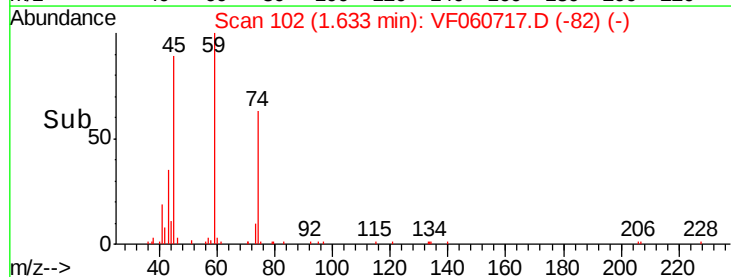
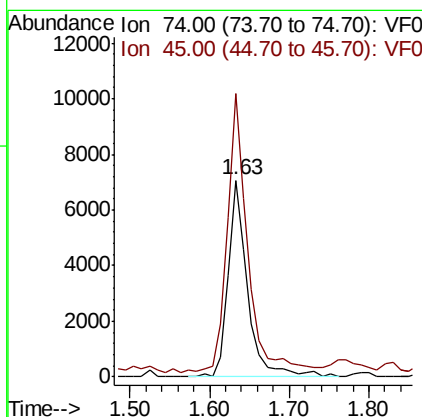
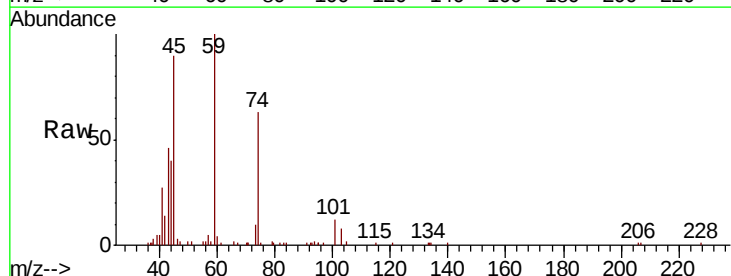
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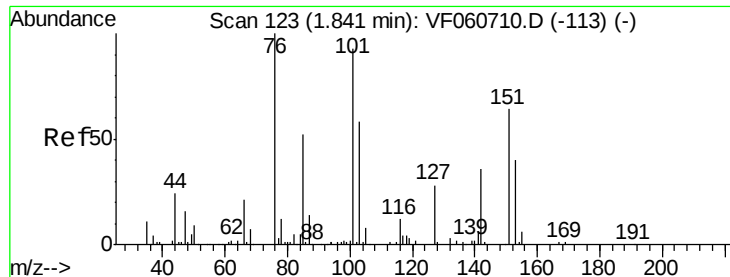


#8

Diethyl Ether
Concen: 19.938 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.00 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion: 74 Resp: 12170
Ion Ratio Lower Upper
74 100
45 144.0 67.7 203.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.523 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

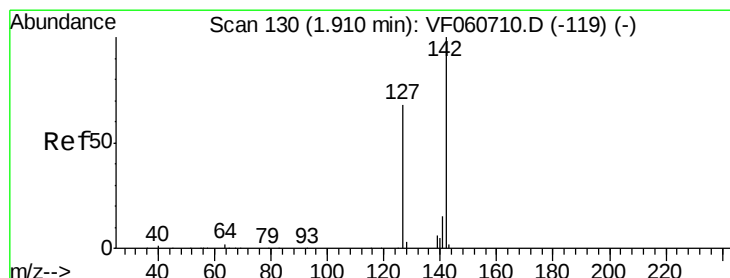
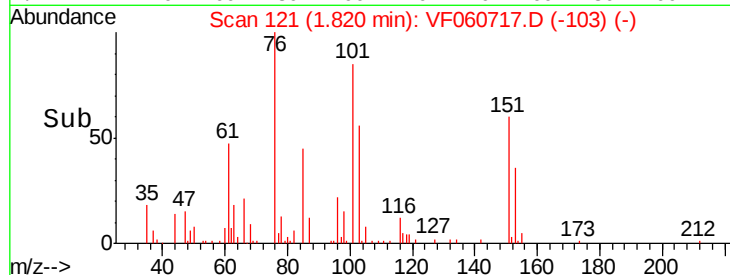
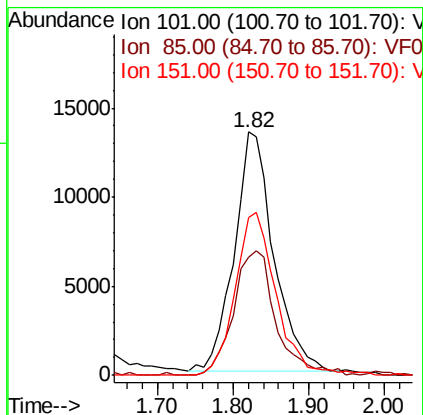
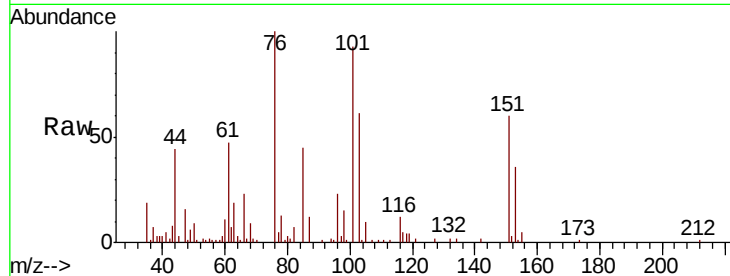
ClientSampleId :

VF1113SBS02

Tot Ion:	101	Resp:	48320
Ion Ratio	Lower	Upper	
101	100		
85	48.7	43.6	65.4
151	64.9	53.1	79.7

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#10

Methyl Iodide

Concen: 21.607 ug/l m

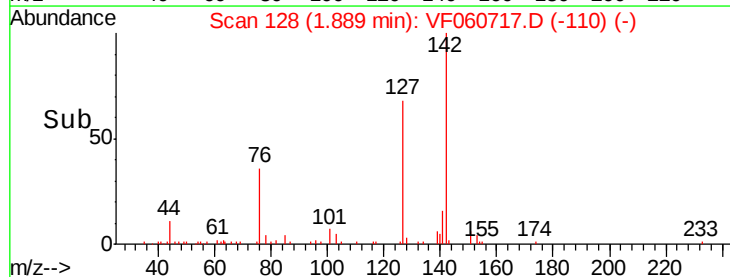
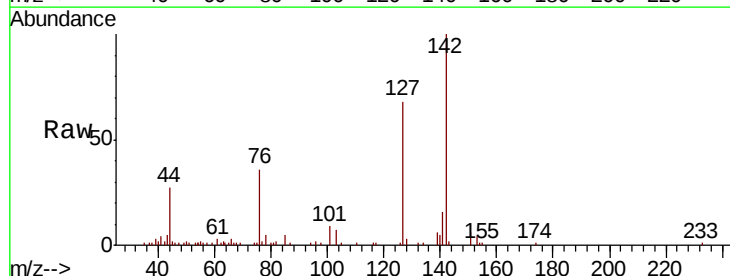
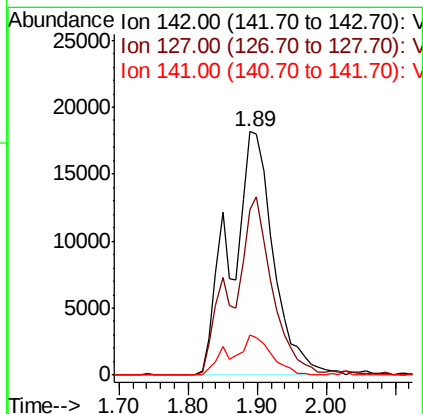
RT: 1.89 min Scan# 128

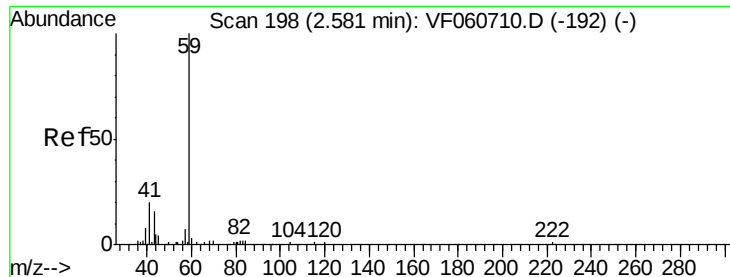
Delta R.T. -0.02 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	142	Resp:	77827
Ion Ratio	Lower	Upper	
142	100		
127	67.9	54.0	81.0
141	16.4	12.3	18.5





#11

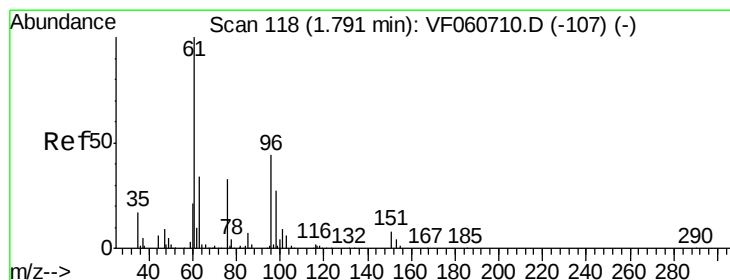
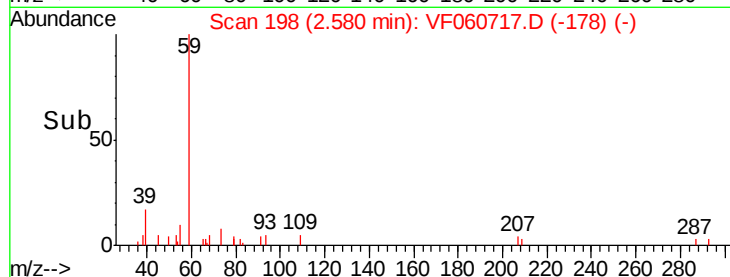
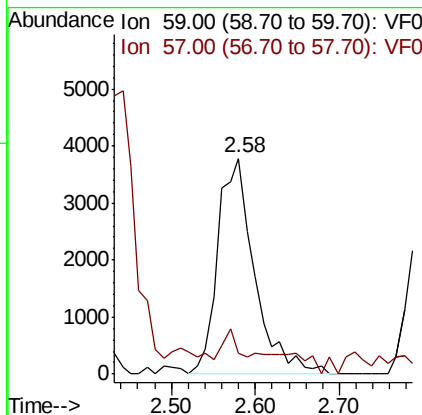
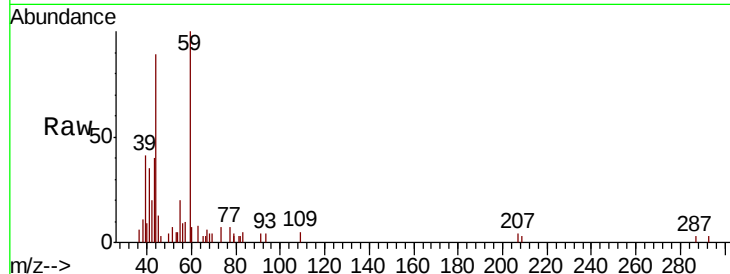
Tert butyl alcohol
 Concen: 101.824 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. -0.00 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS02

Tot Ion: 59 Resp: 11469
 Ion Ratio Lower Upper
 59 100
 57 10.0 10.5 15.7#

Manual Integrations
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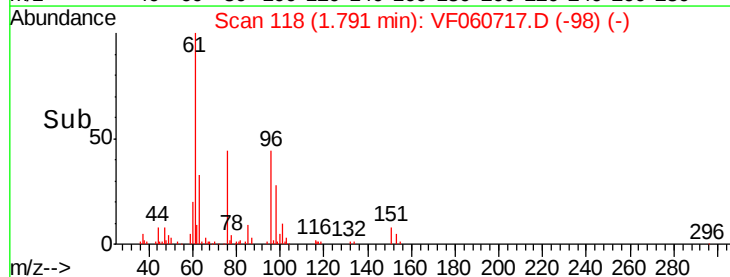
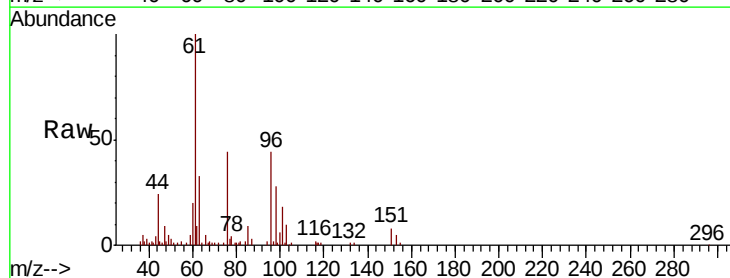
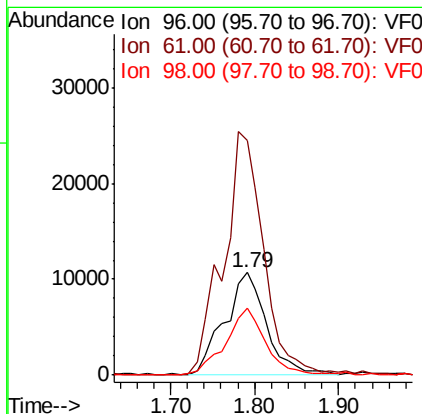
sam
 11/14/2018 11:54:01 AM

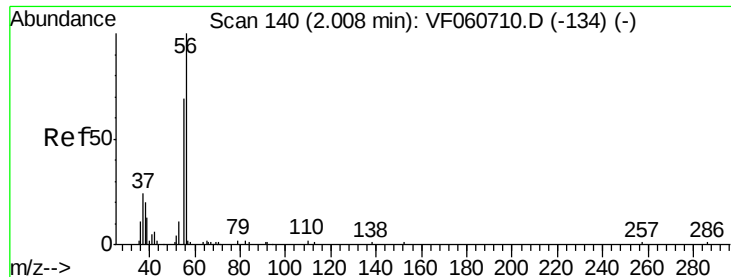


#12

1,1-Dichloroethene
 Concen: 21.082 ug/l
 RT: 1.79 min Scan# 118
 Delta R.T. -0.00 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Tgt Ion: 96 Resp: 37319
 Ion Ratio Lower Upper
 96 100
 61 229.3 182.2 273.2
 98 65.2 49.2 73.8





#13

Acrolein

Concen: 99.196 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 56 Resp: 10216

Ion Ratio Lower Upper

56 100

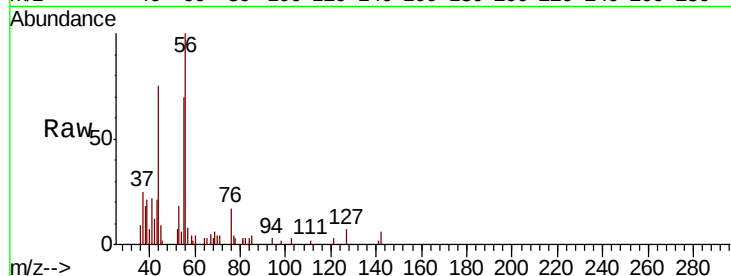
55 70.1 56.6 85.0

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.01

5000

4000

3000

2000

1000

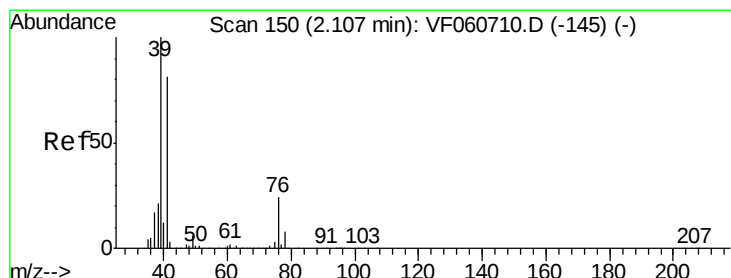
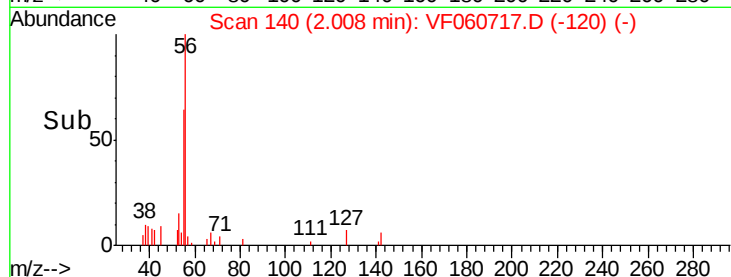
0

Time-->

1.90

2.00

2.10



#14

Allyl chloride

Concen: 20.679 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

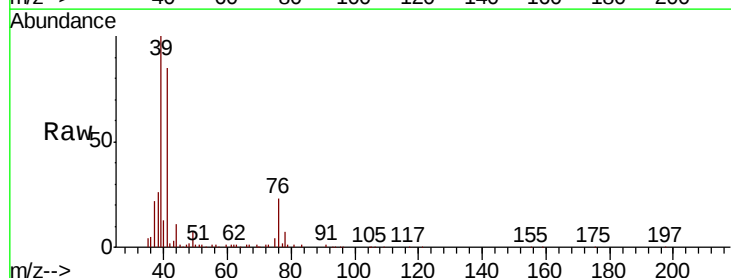
Tgt Ion: 41 Resp: 64130

Ion Ratio Lower Upper

41 100

39 117.8 98.5 147.7

76 27.2 24.5 36.7



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

40000

30000

20000

10000

0

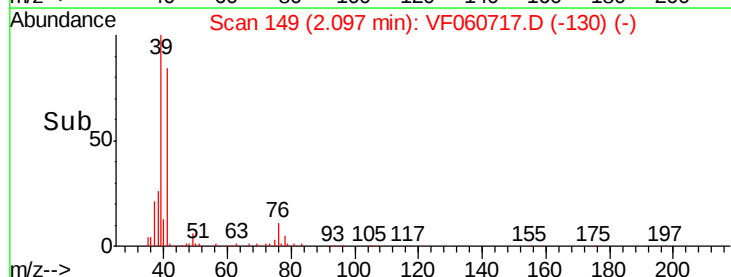
Time-->

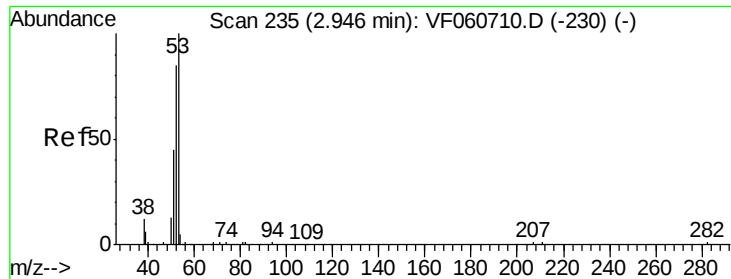
2.00

2.10

2.20

2.30





#15

Acrylonitrile

Concen: 111.057 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

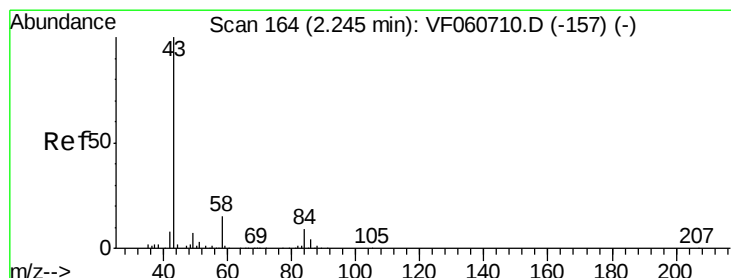
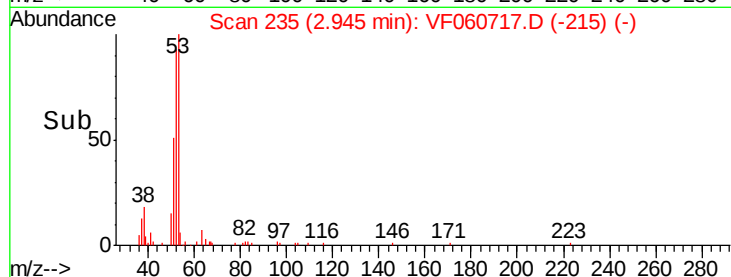
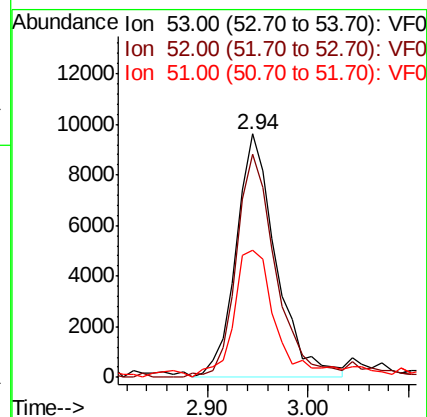
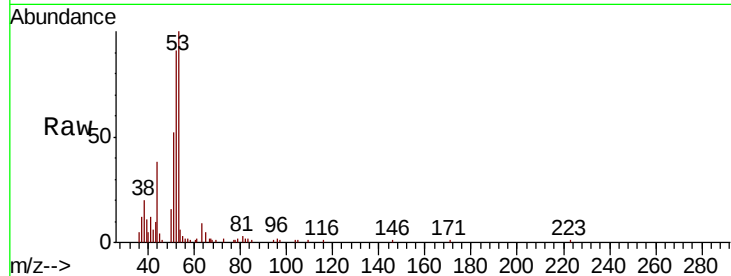
ClientSampleId :

VF1113SBS02

Tot Ion:	53	Resp:	26655
Ion	Ratio	Lower	Upper
53	100		
52	91.5	68.8	103.2
51	52.0	36.7	55.1

Manual Integrations
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#16

Acetone

Concen: 92.195 ug/l

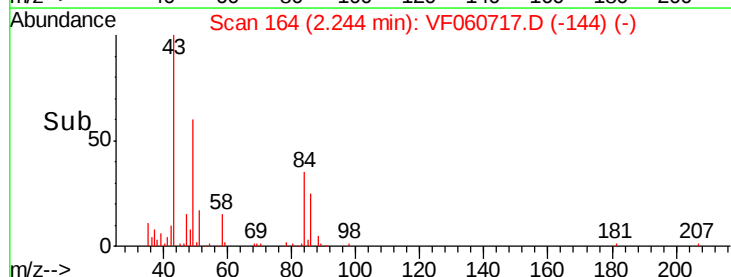
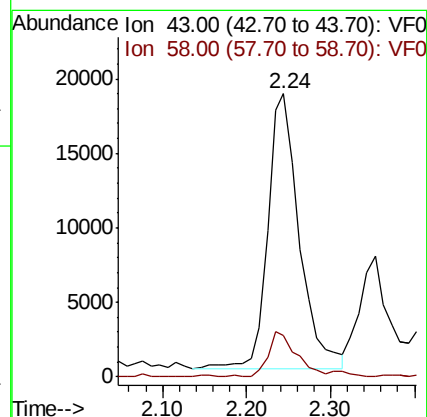
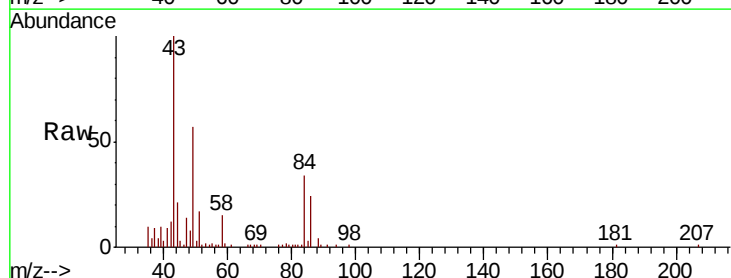
RT: 2.24 min Scan# 164

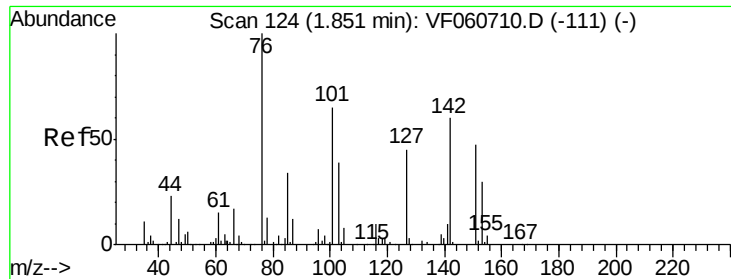
Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	43	Resp:	48771
Ion	Ratio	Lower	Upper
43	100		
58	14.6	11.6	17.4





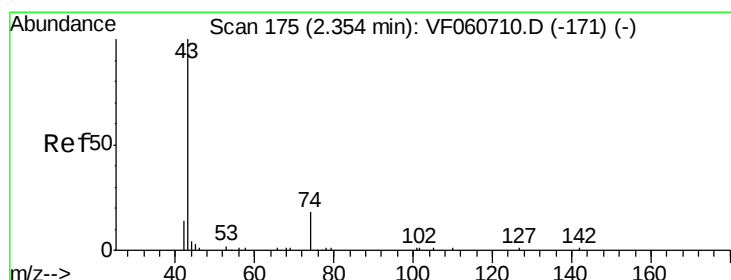
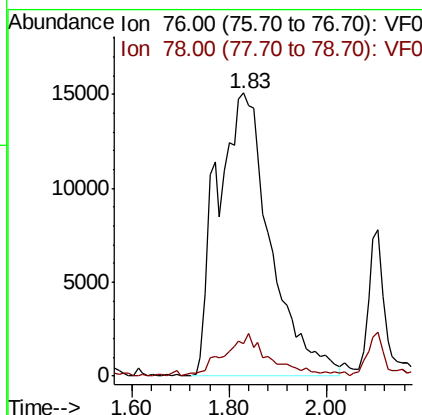
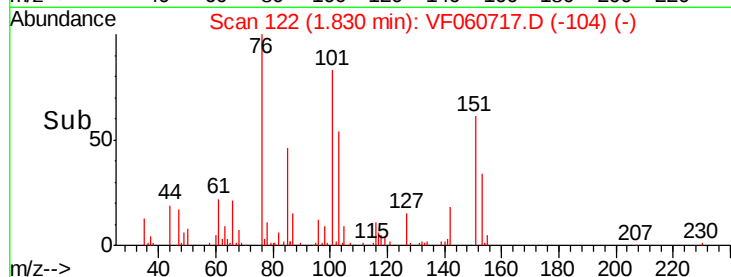
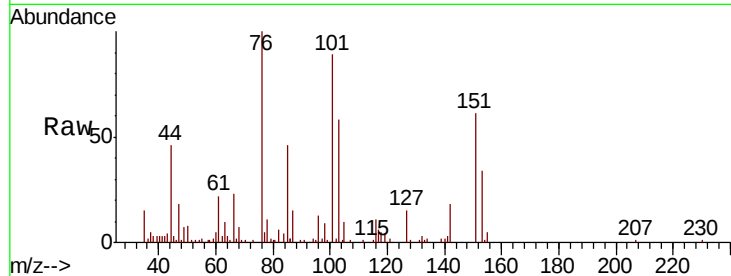
#17
Carbon Disulfide
Concen: 21.370 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. -0.02 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

Tot Ion: 76 Resp: 114337
Ion Ratio Lower Upper
76 100
78 11.4 10.5 15.7

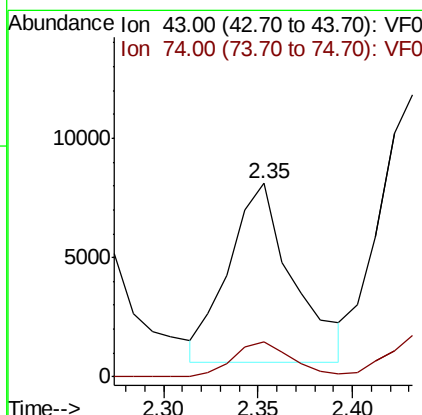
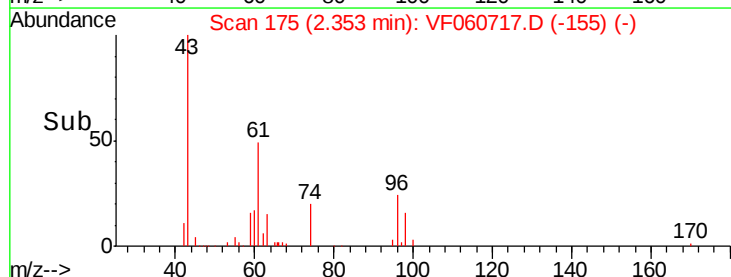
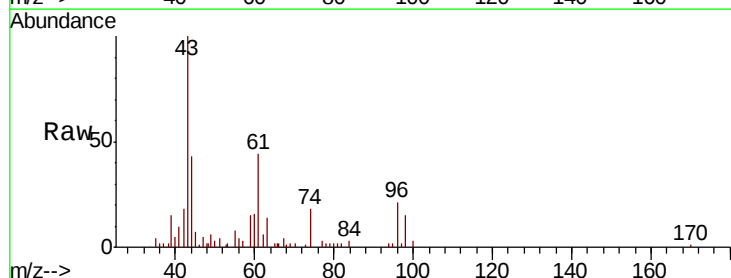
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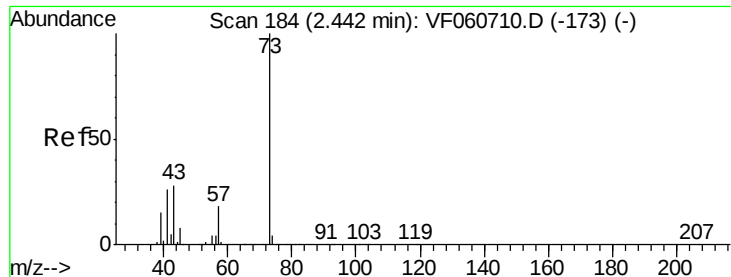
sam
11/14/2018 11:54:01 AM



#18
Methyl Acetate
Concen: 20.539 ug/l m
RT: 2.35 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion: 43 Resp: 17841
Ion Ratio Lower Upper
43 100
74 18.0 11.8 17.8#





#19

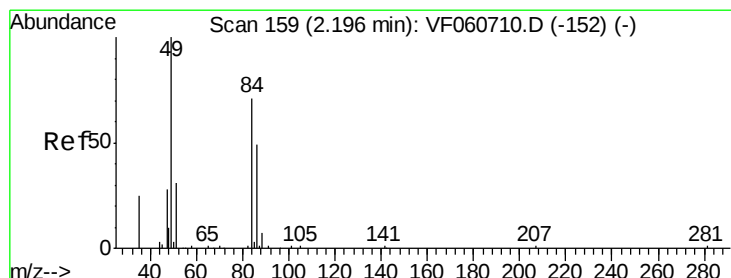
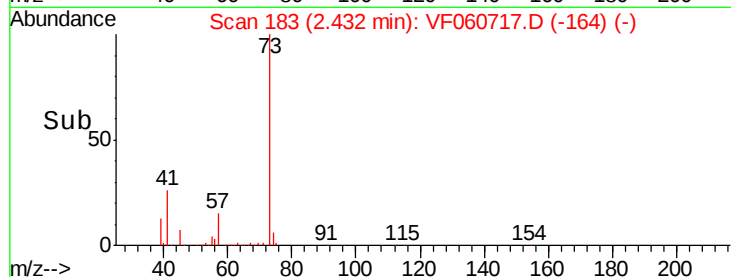
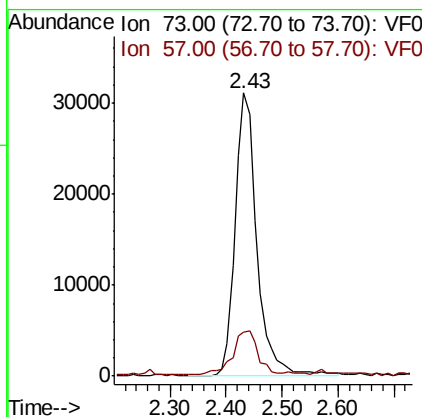
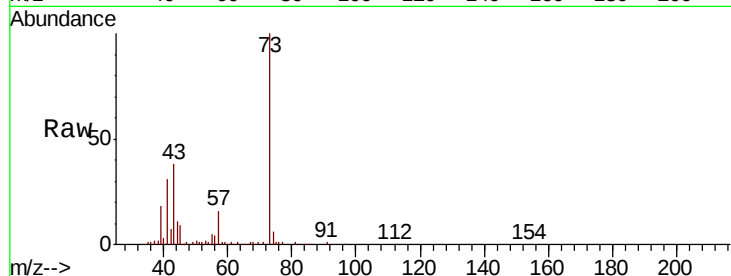
Methyl tert-butyl Ether
 Concen: 19.792 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. -0.01 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS02

Tot Ion	73	Resp	84053
Ion Ratio	Lower	Upper	
73	100		
57	15.7	14.3	21.5

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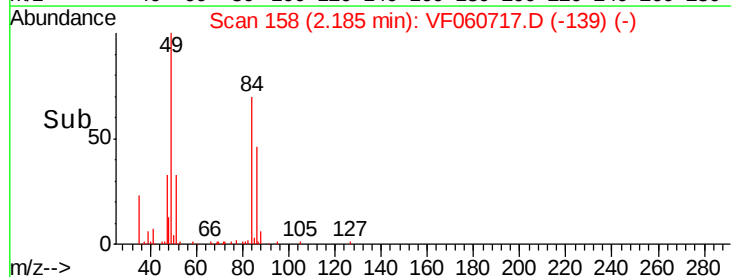
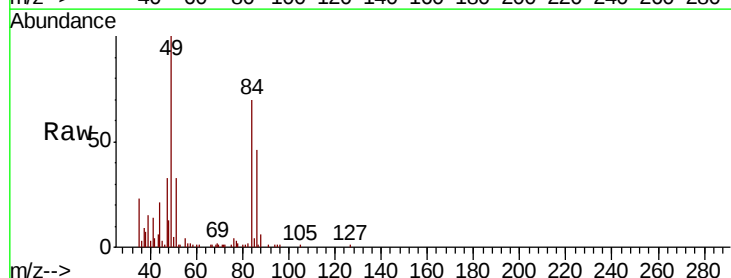
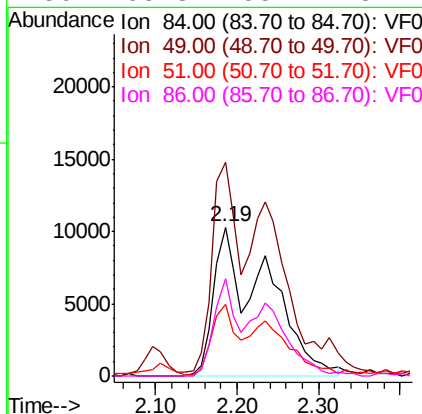
sam
 11/14/2018 11:54:01 AM

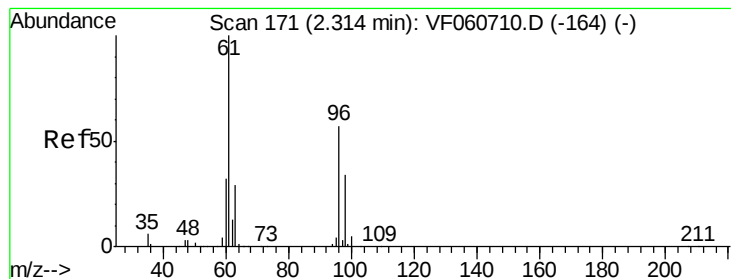


#20

Methylene Chloride
 Concen: 24.746 ug/l m
 RT: 2.19 min Scan# 158
 Delta R.T. -0.01 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Tgt Ion	84	Resp	46047
Ion Ratio	Lower	Upper	
84	100		
49	143.3	120.2	180.4
51	47.8	37.2	55.8
86	65.3	55.1	82.7





#21

trans-1,2-Dichloroethene

Concen: 21.501 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

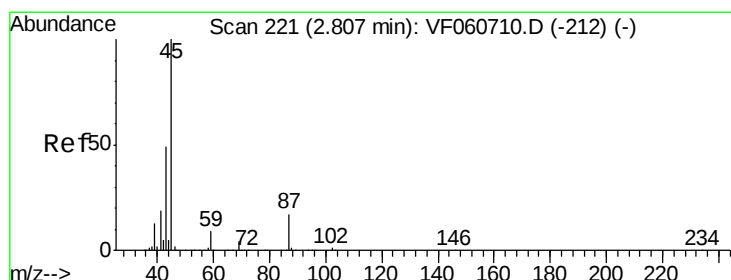
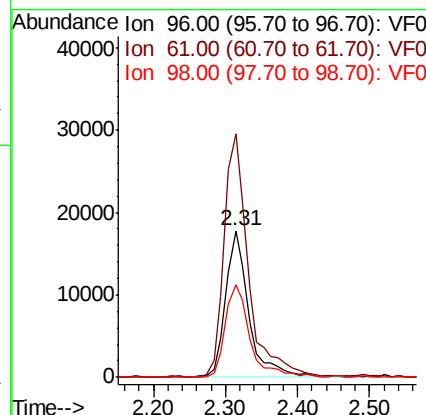
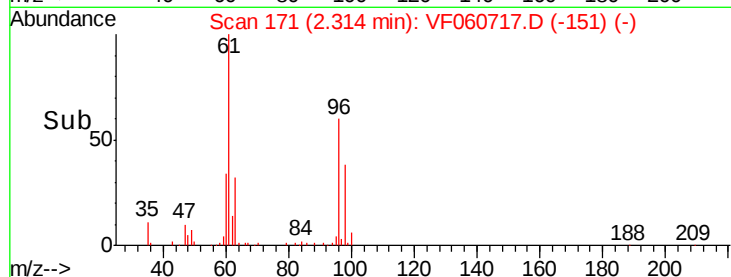
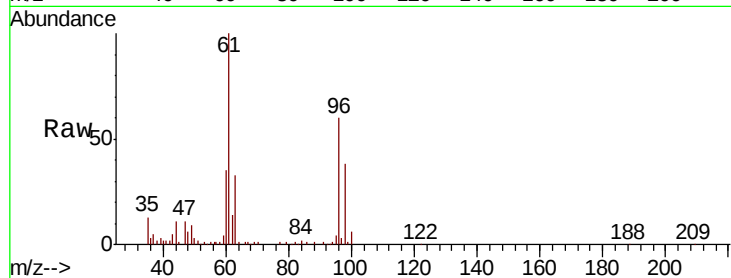
ClientSampleId :

VF1113SBS02

Tot Ion:	96	Resp:	39766
Ion	Ratio	Lower	Upper
96	100		
61	166.0	141.6	212.4
98	63.0	47.4	71.0

Manual Integrations
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sam
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#22

Diisopropyl ether

Concen: 20.949 ug/l

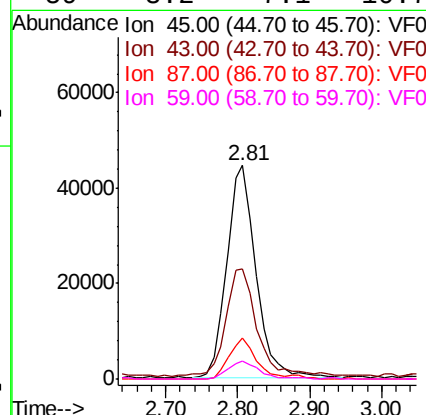
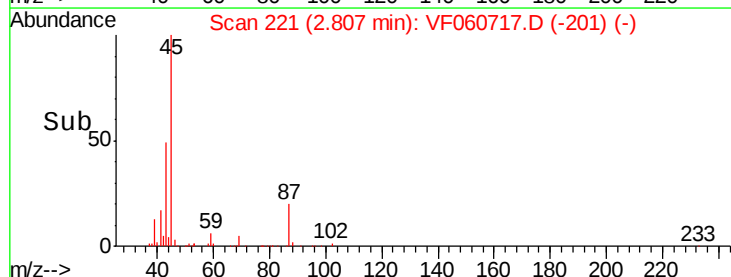
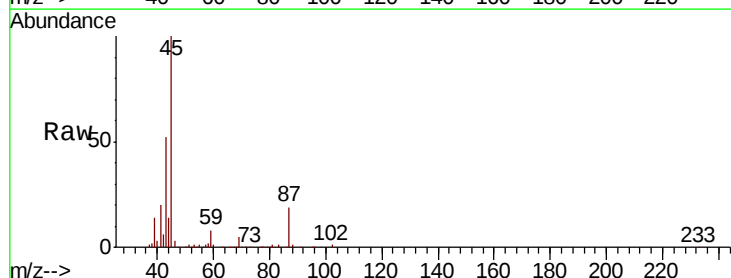
RT: 2.81 min Scan# 221

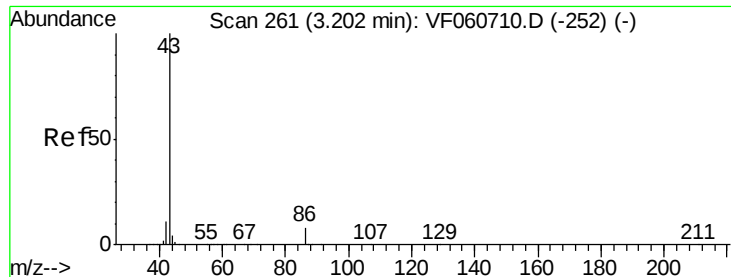
Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	45	Resp:	125425
Ion	Ratio	Lower	Upper
45	100		
43	51.6	39.9	59.9
87	19.4	13.9	20.9
59	8.2	7.1	10.7





#23

Vinyl Acetate

Concen: 102.303 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 43 Resp: 288433

Ion Ratio Lower Upper

43 100

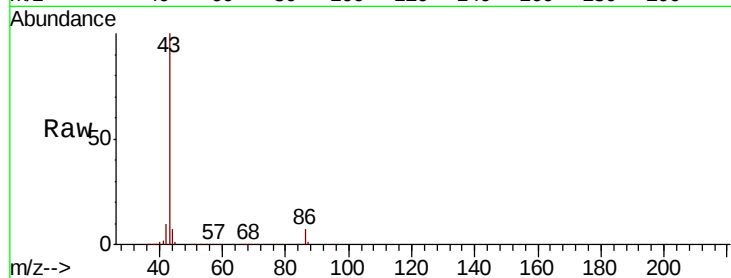
86 6.7 6.4 9.6

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.19

120000

100000

80000

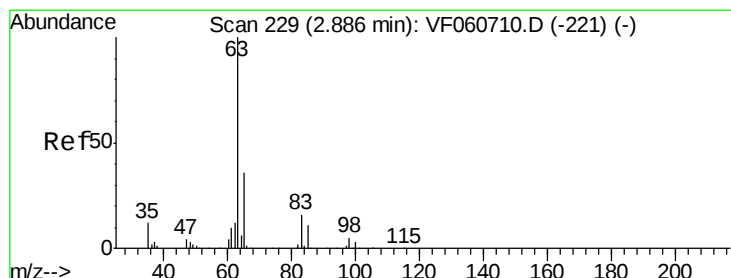
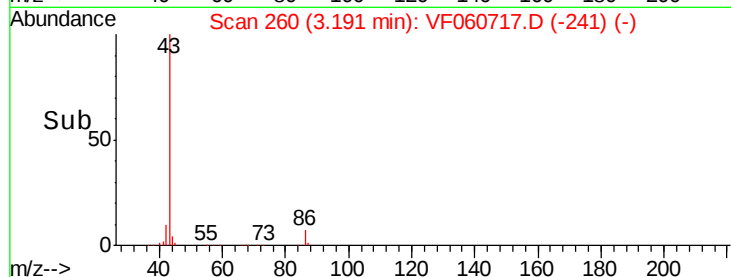
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 22.453 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

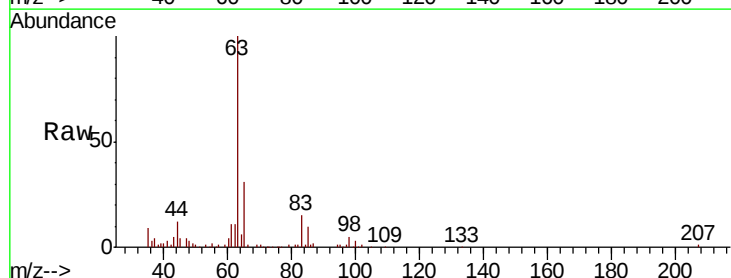
Tgt Ion: 63 Resp: 81387

Ion Ratio Lower Upper

63 100

98 4.8 2.4 7.1

100 3.1 1.4 4.2



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

40000

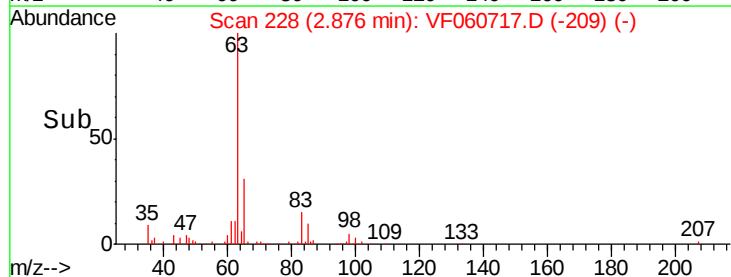
30000

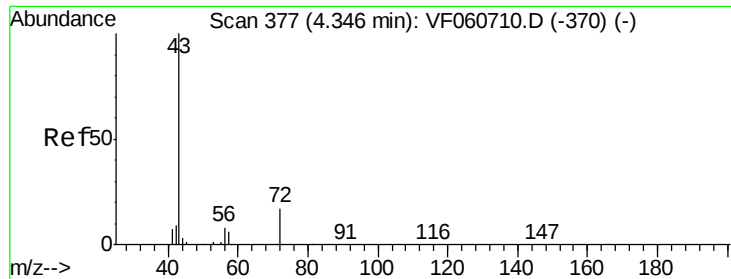
20000

10000

0

Time-->





#25

2-Butanone

Concen: 104.965 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 43 Resp: 91331

Ion Ratio Lower Upper

43 100

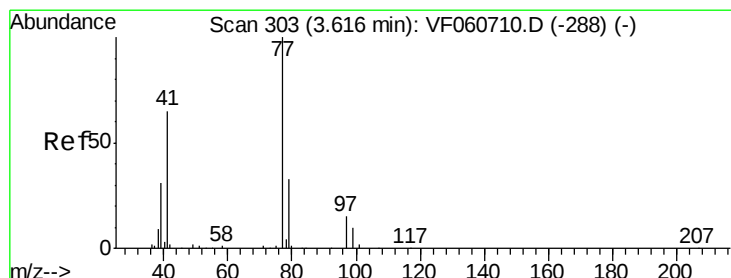
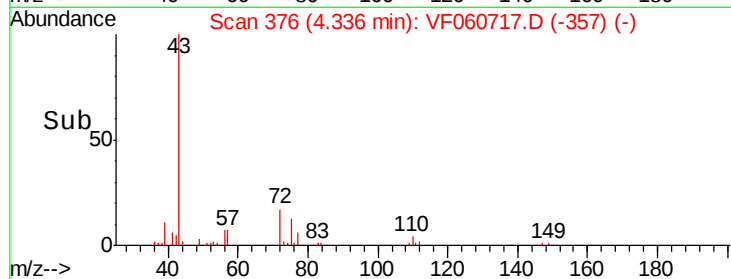
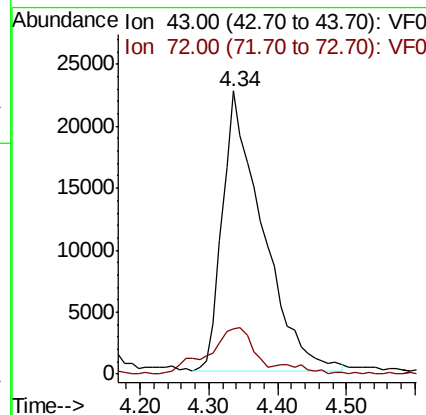
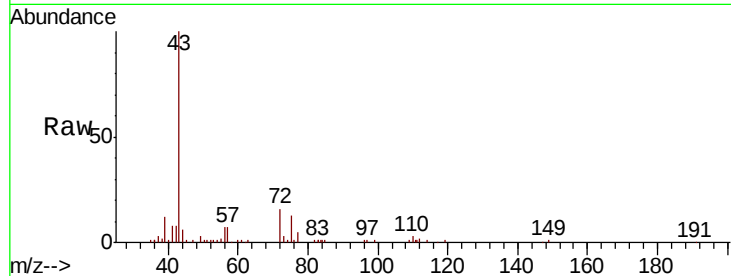
72 15.8 16.1 24.1#

Manual Integrations

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sam

11/14/2018 11:54:01 AM



#26

2,2-Dichloropropane

Concen: 21.508 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.01 min

Lab File: VF060717.D

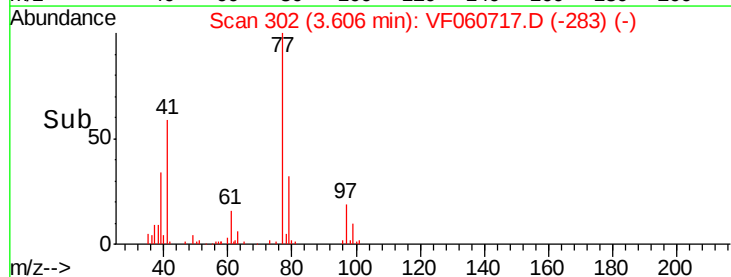
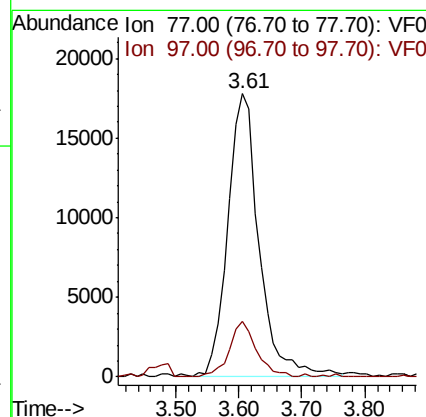
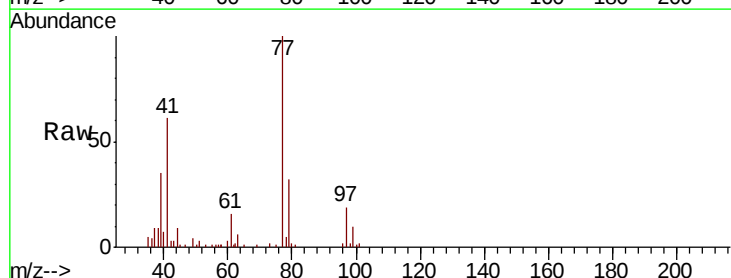
Acq: 13 Nov 2018 19:36

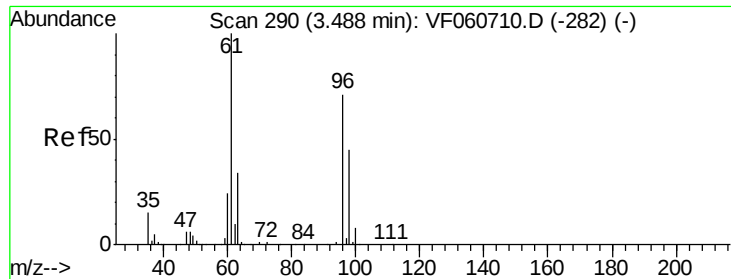
Tgt Ion: 77 Resp: 61351

Ion Ratio Lower Upper

77 100

97 19.5 8.8 26.5





#27

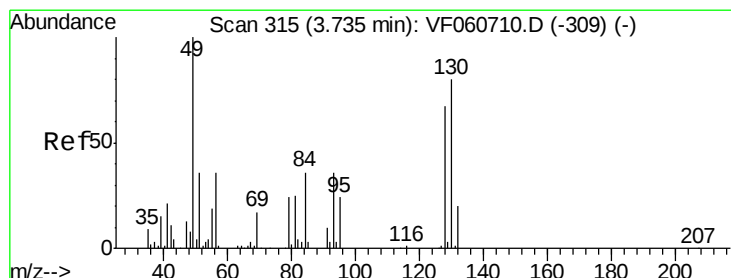
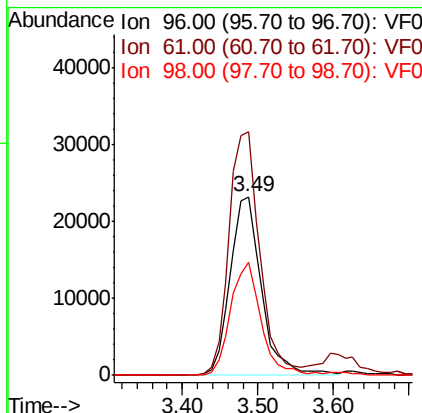
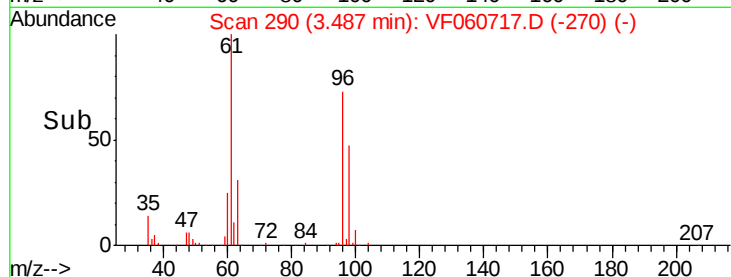
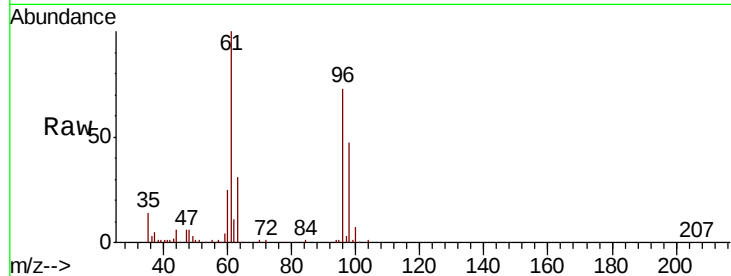
cis-1,2-Dichloroethene
Concen: 21.084 ug/l
RT: 3.49 min Scan# 290
Delta R.T. -0.00 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.2	0.0	280.6
98	63.6	0.0	127.6

Manual Integrations
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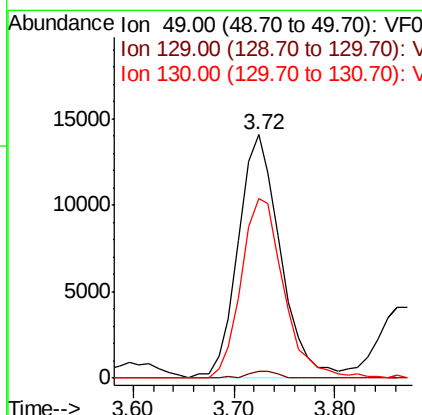
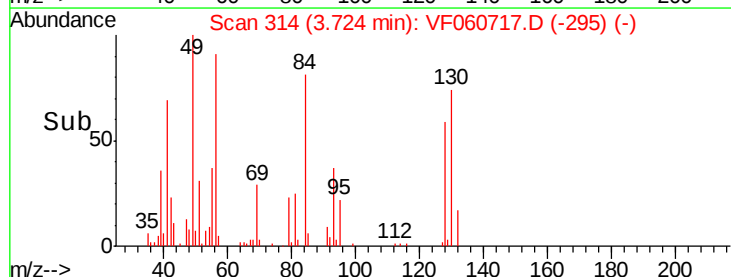
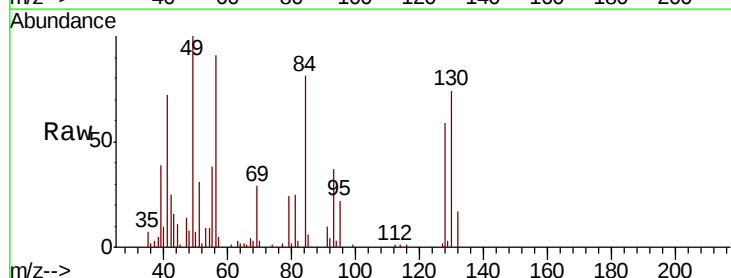
sam
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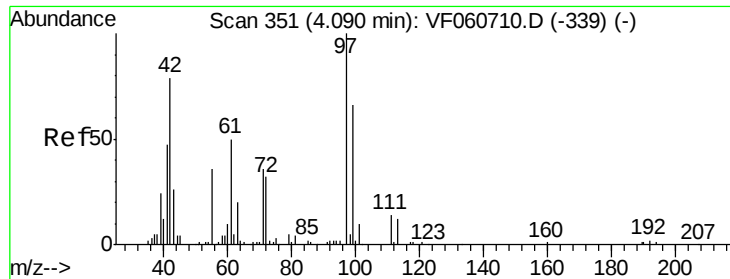


#28

Bromochloromethane
Concen: 21.769 ug/l
RT: 3.72 min Scan# 314
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	5.2
130	74.0	63.9	95.9





#29

Tetrahydrofuran

Concen: 102.341 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

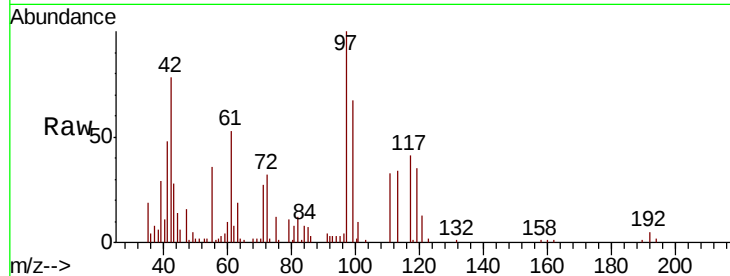
ClientSampleId :

VF1113SBS02

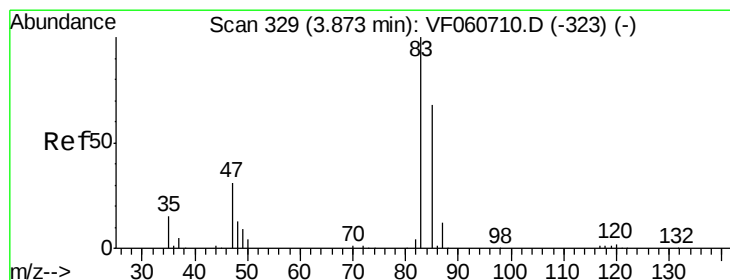
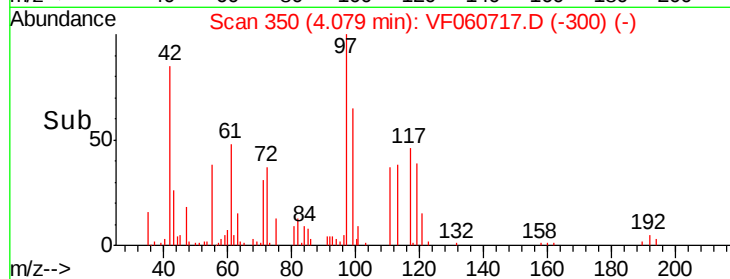
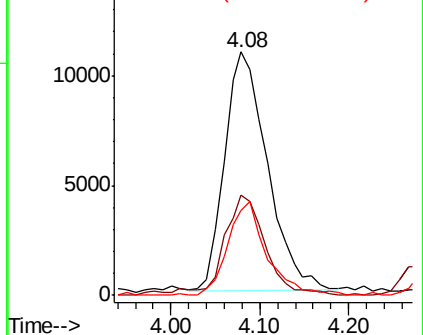
Tot Ion:	42	Resp:	36731
Ion Ratio	Lower	Upper	
42	100		
72	41.0	30.3	45.5
71	35.4	32.2	48.2

Manual Integrations
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Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 20.432 ug/l

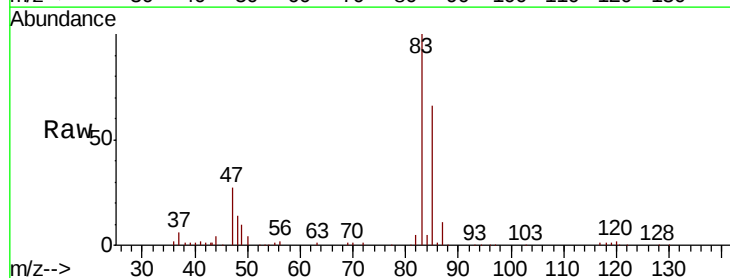
RT: 3.86 min Scan# 328

Delta R.T. -0.01 min

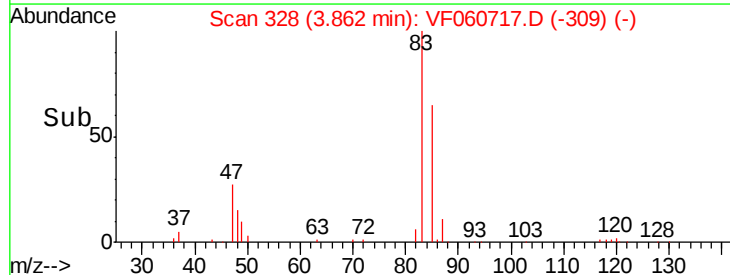
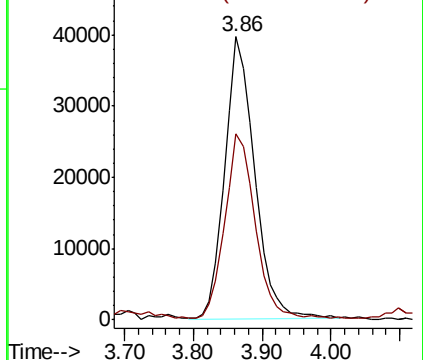
Lab File: VF060717.D

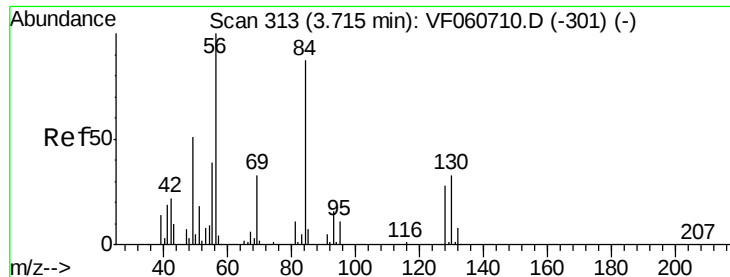
Acq: 13 Nov 2018 19:36

Tgt Ion:	83	Resp:	118827
Ion Ratio	Lower	Upper	
83	100		
85	65.9	54.6	82.0



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 21.968 ug/l

RT: 3.69 min Scan# 311

Delta R.T. -0.02 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

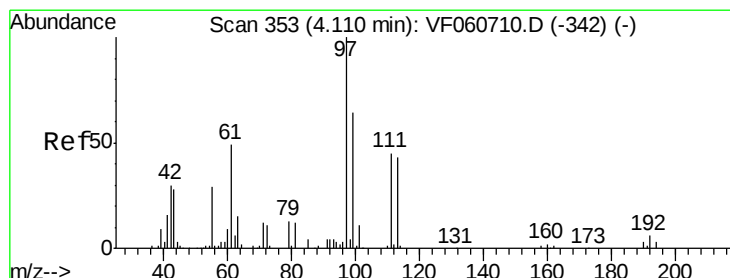
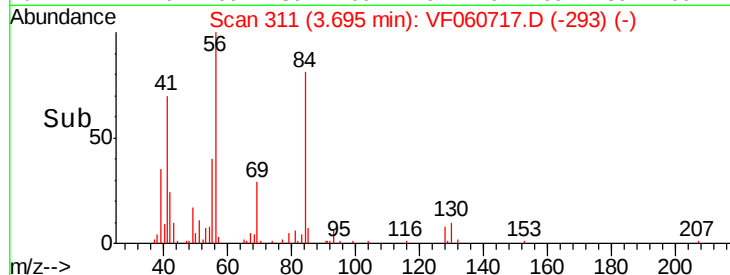
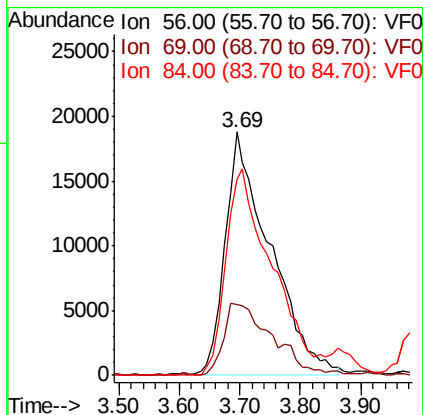
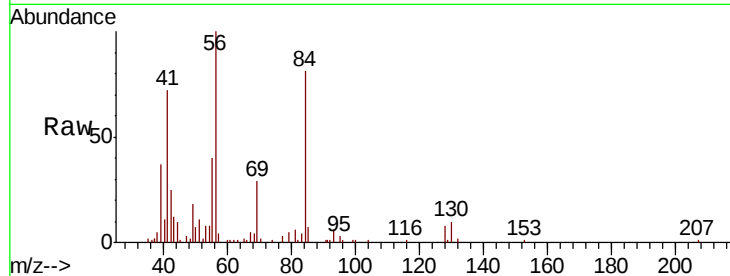
ClientSampleId :

VF1113SBS02

Tot Ion:	56	Resp:	96646
Ion	Ratio	Lower	Upper
56	100		
69	29.2	26.0	39.0
84	80.6	69.4	104.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 21.755 ug/l

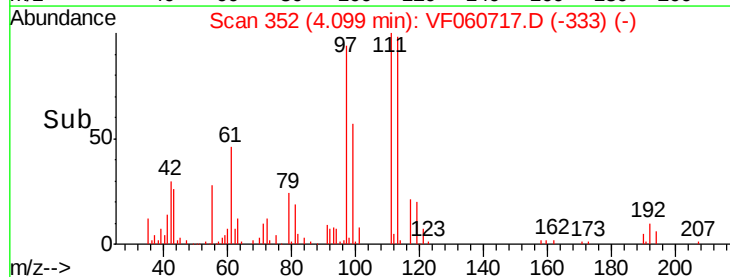
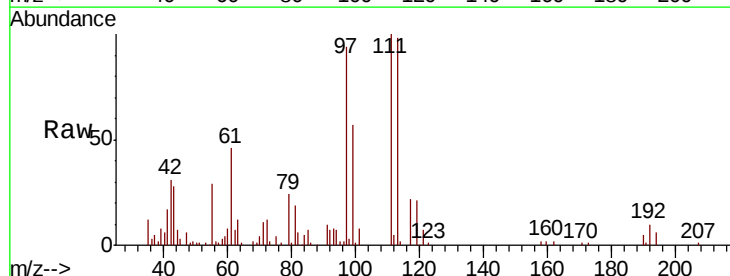
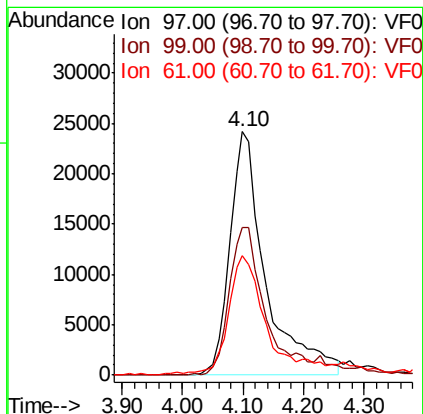
RT: 4.10 min Scan# 352

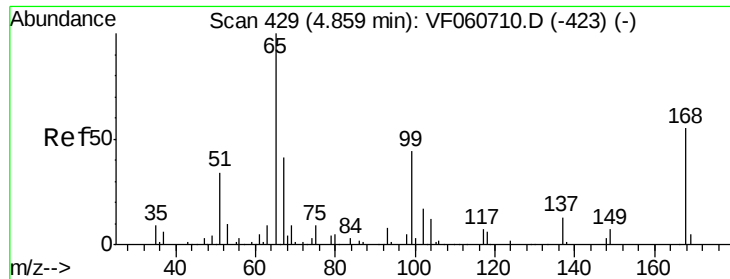
Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	97	Resp:	99634
Ion	Ratio	Lower	Upper
97	100		
99	60.6	51.1	76.7
61	49.3	40.1	60.1





#33

1,2-Dichloroethane-d4

Concen: 45.418 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 65 Resp: 112407

Ion Ratio Lower Upper

65 100

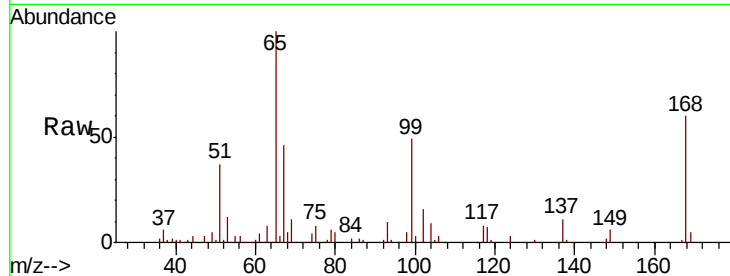
67 46.0 0.0 90.2

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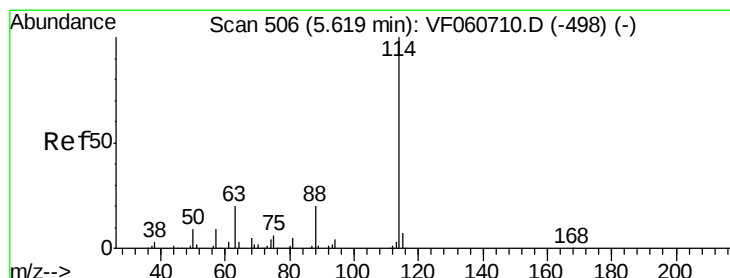
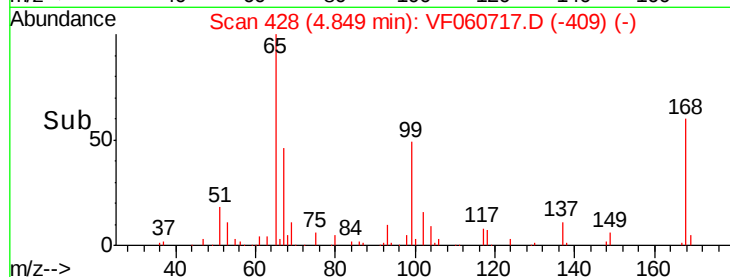
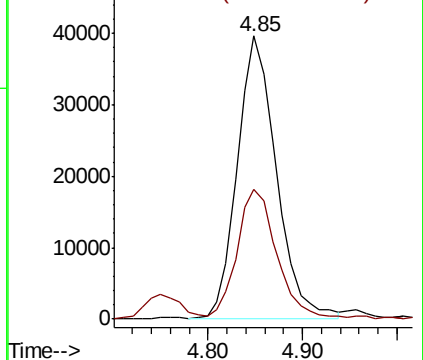
sam

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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

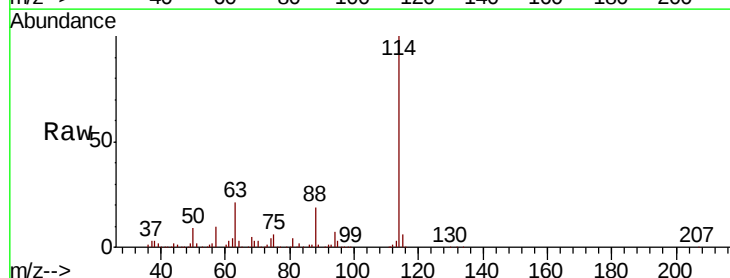
Tgt Ion: 114 Resp: 376739

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

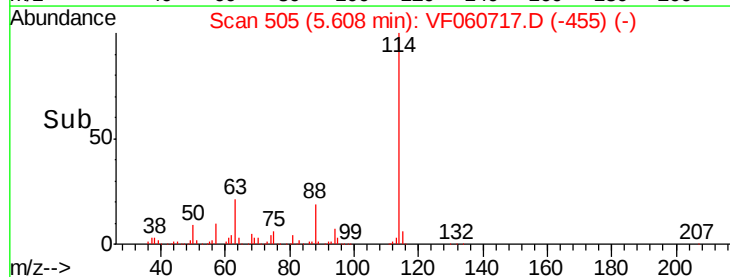
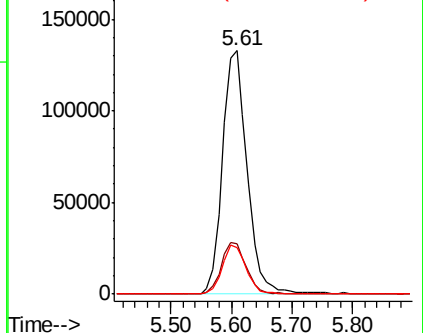
88 19.2 0.0 39.6

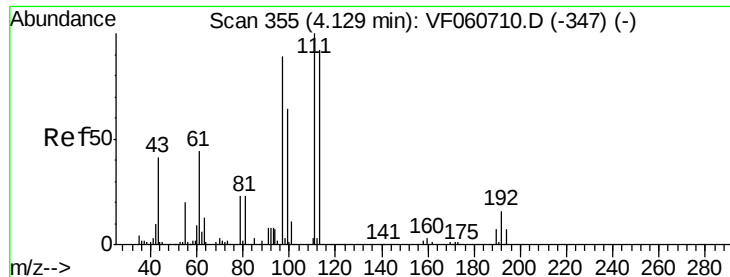


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 47.998 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

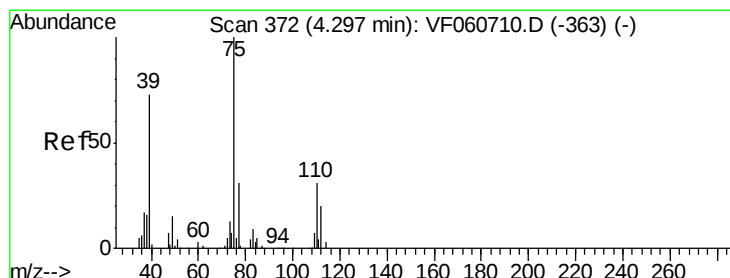
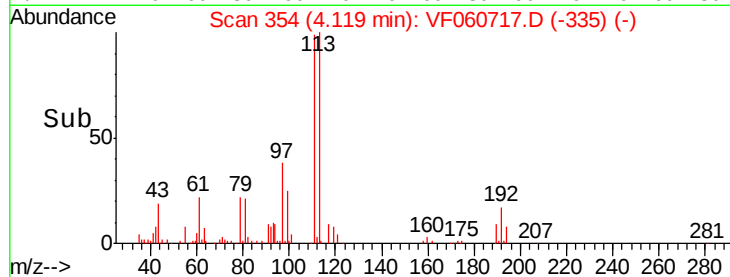
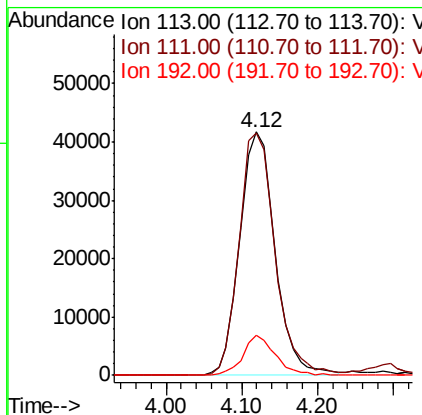
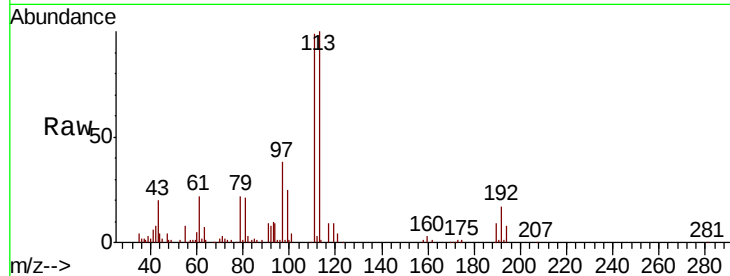
ClientSampleId :

VF1113SBS02

Tot Ion:	113	Resp:	135926
Ion Ratio	Lower	Upper	
113	100		
111	99.3	87.1	130.7
192	17.3	13.8	20.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 21.347 ug/l

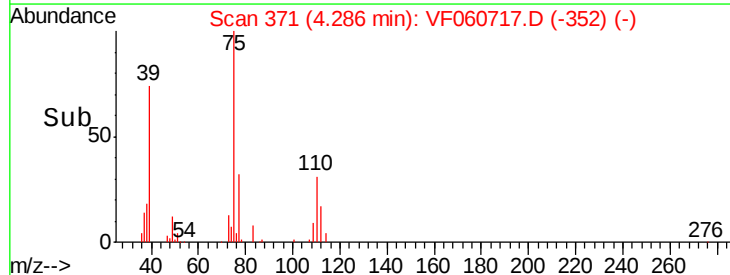
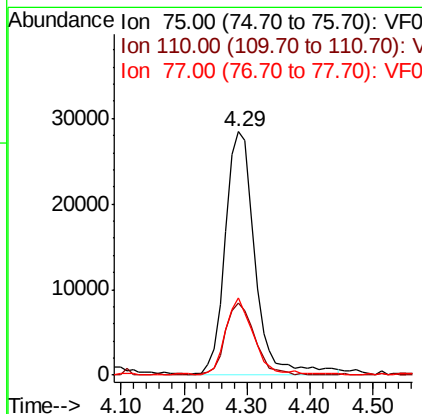
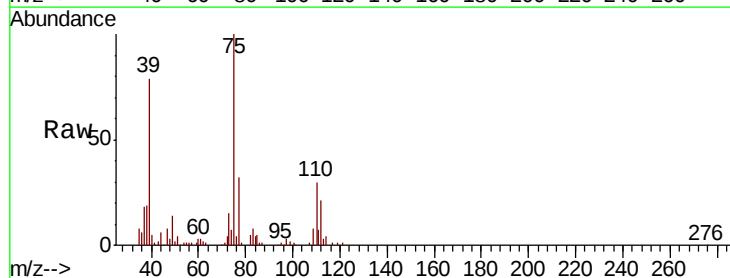
RT: 4.29 min Scan# 371

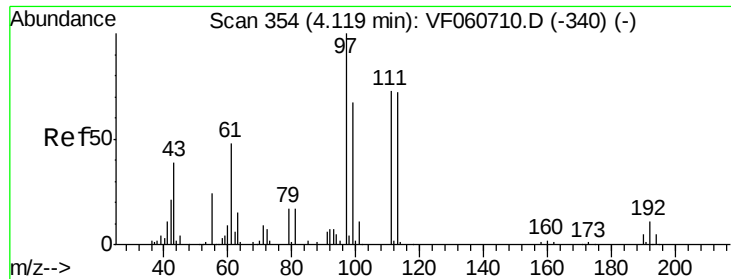
Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	75	Resp:	93270
Ion Ratio	Lower	Upper	
75	100		
110	29.5	15.6	46.8
77	31.6	25.0	37.6





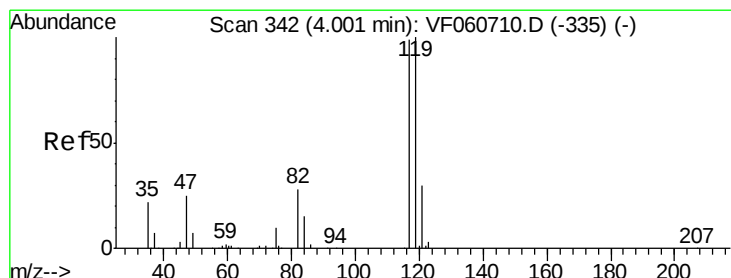
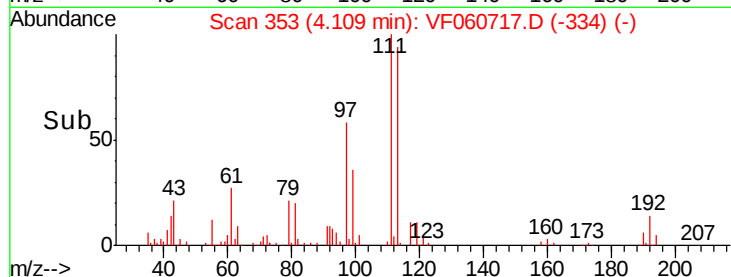
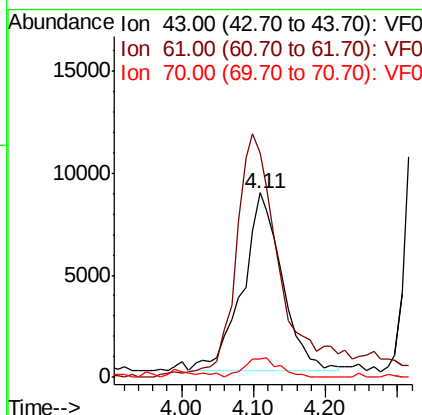
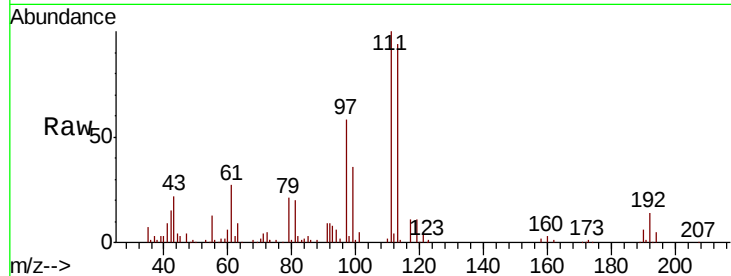
#37
Ethyl Acetate
Concen: 20.505 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

Tot Ion	43	61	70
Resp	33309	121.9	9.8
Ratio	100	121.9	9.8
Lower		98.5	7.4
Upper		147.7	11.0

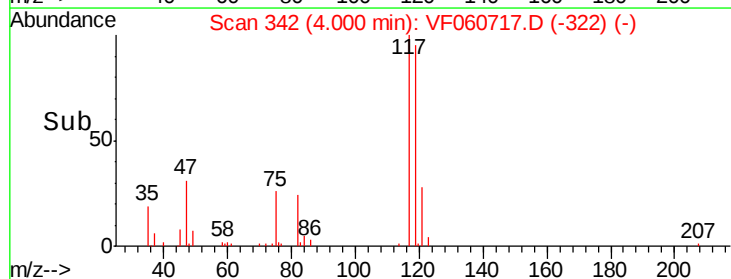
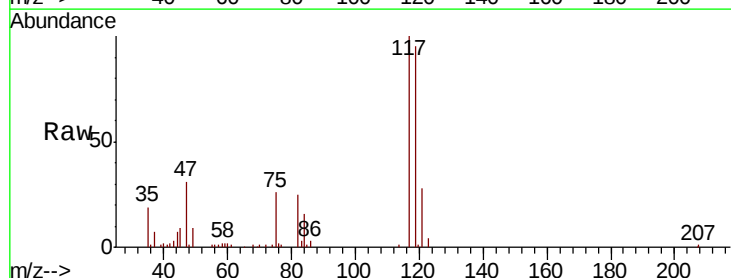
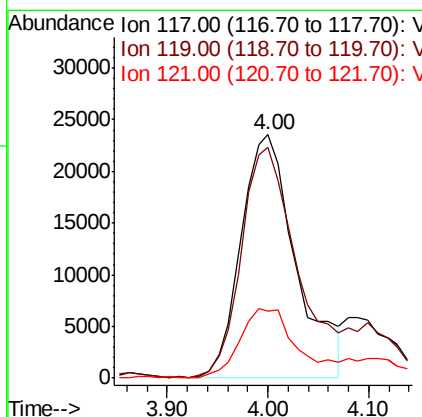
Manual Integrations
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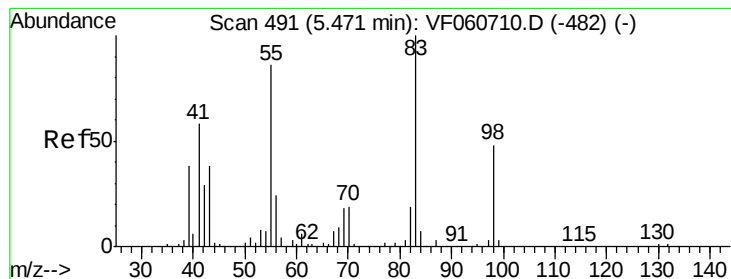
sam
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#38
Carbon Tetrachloride
Concen: 21.124 ug/l
RT: 4.00 min Scan# 342
Delta R.T. -0.00 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion	117	119	121
Resp	89555	94.8	27.7
Ratio	100	94.8	27.7
Lower		80.7	24.3
Upper		121.1	36.5





#39

Methvlcvclohexane

Concen: 20.464 ug/l

RT: 5.46 min Scan# 490

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

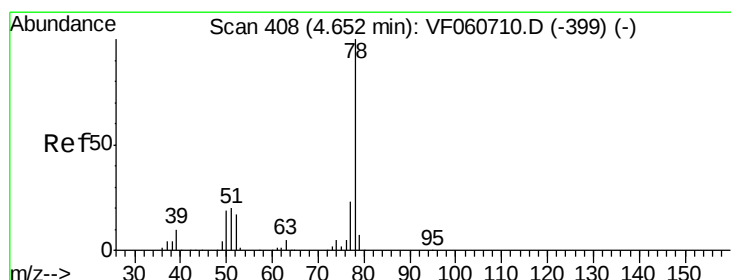
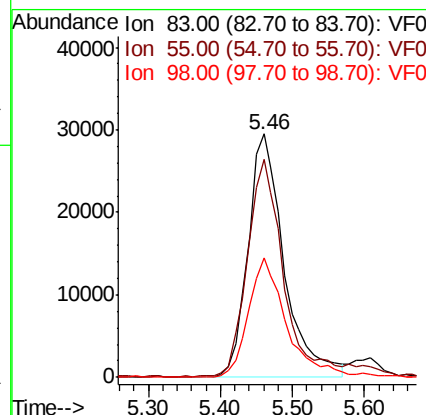
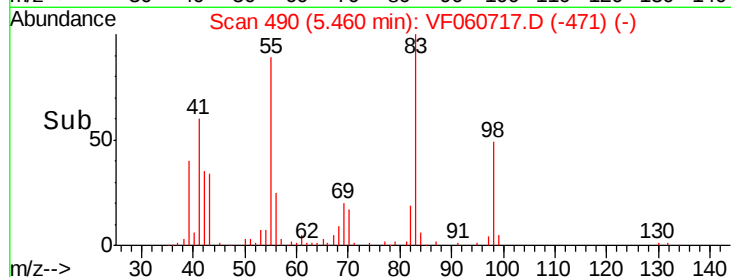
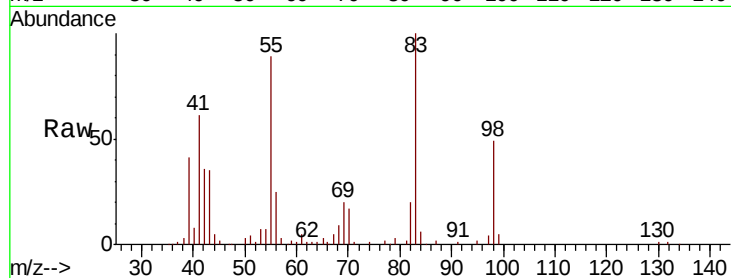
ClientSampleId :

VF1113SBS02

Tot Ion:	83	Resp:	103734
Ion	Ratio	Lower	Upper
83	100		
55	89.4	69.0	103.4
98	49.2	38.5	57.7

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#40

Benzene

Concen: 21.037 ug/l

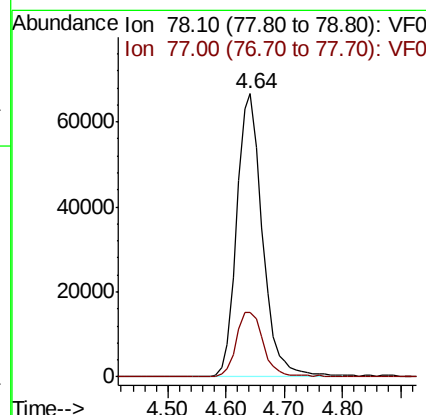
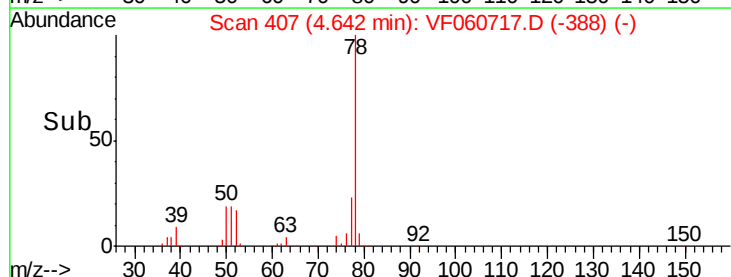
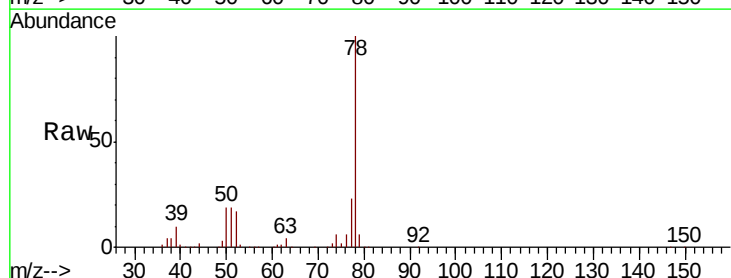
RT: 4.64 min Scan# 407

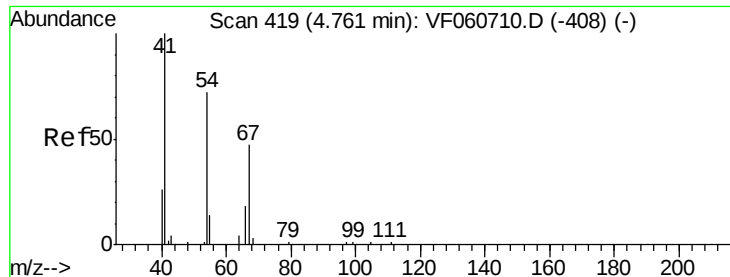
Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	78	Resp:	204896
Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.6	28.0





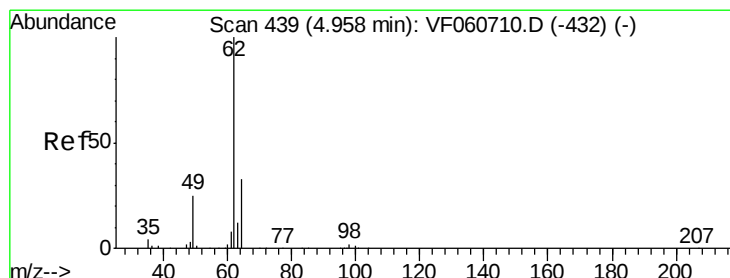
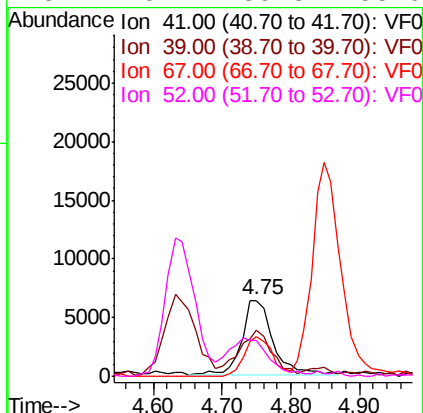
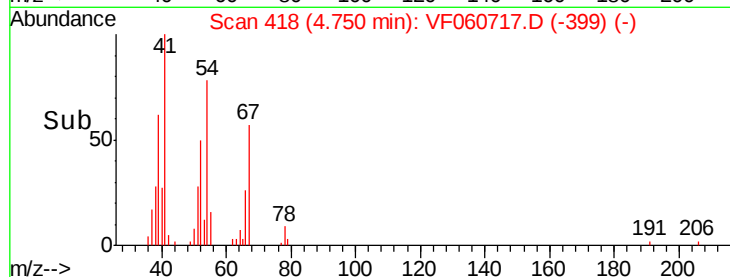
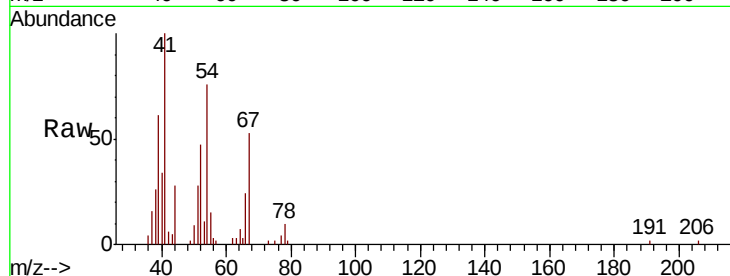
#41
Methacrylonitrile
Concen: 20.543 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

Tot Ion	41	Resp	20001
Ion	Ratio	Lower	Upper
41	100		
39	61.0	47.1	70.7
67	53.0	37.1	55.7
52	46.7	39.3	58.9

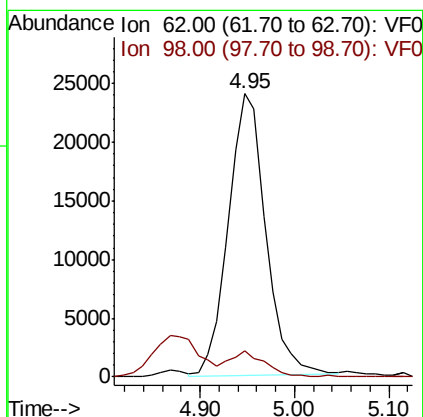
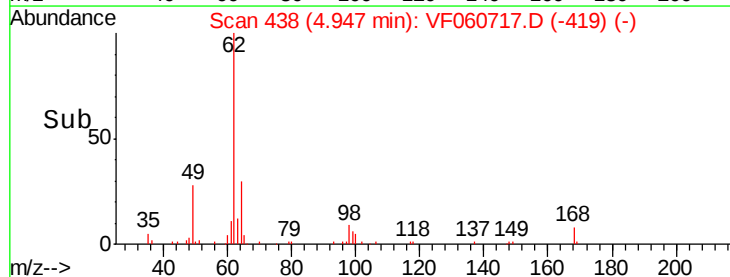
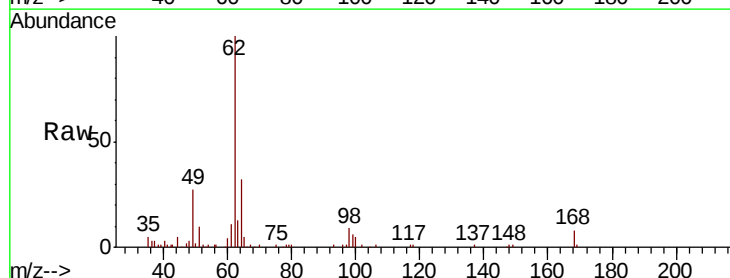
Manual Integrations
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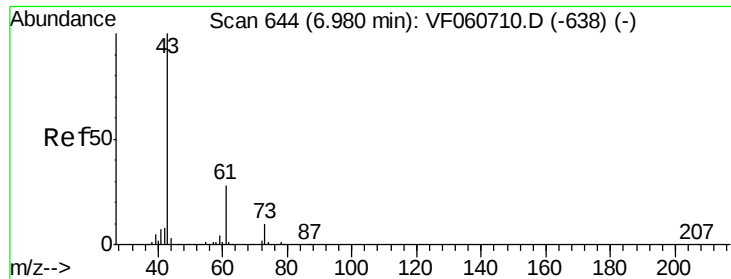
sam
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#42
1,2-Dichloroethane
Concen: 19.394 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion	62	Resp	65277
Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	16.6





#43

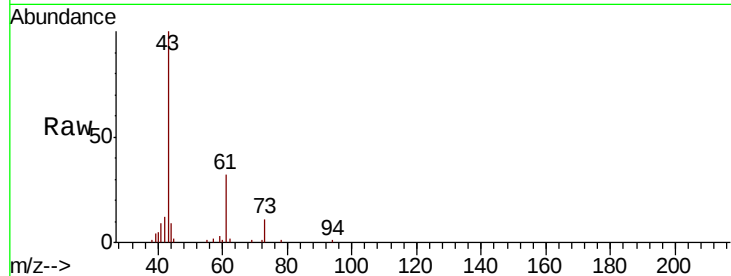
Isopropyl Acetate
 Concen: 20.193 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.01 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.0	22.2	33.4
87	0.0	0.4	0.6

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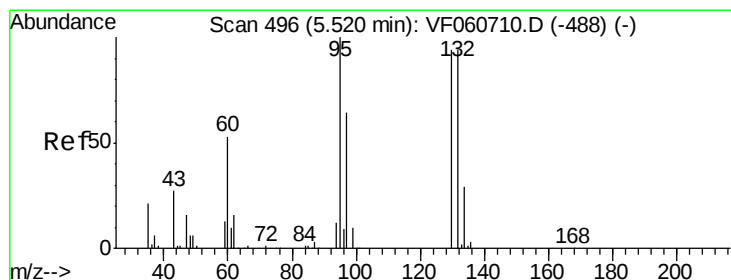
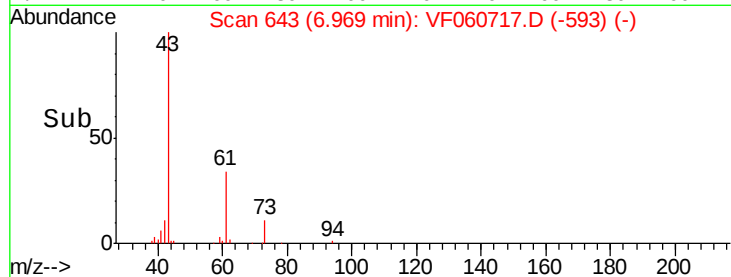
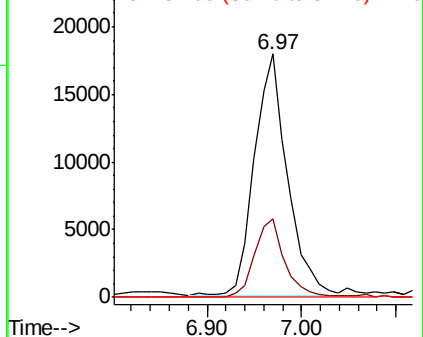


Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

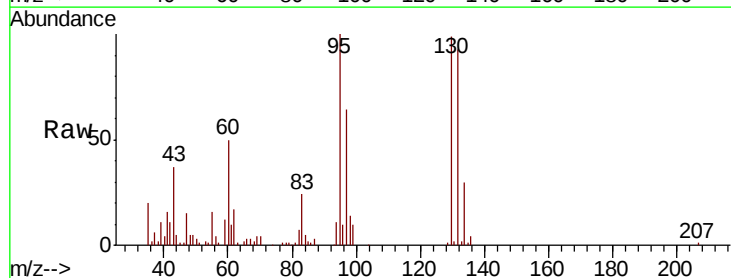
Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene
 Concen: 20.800 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.01 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

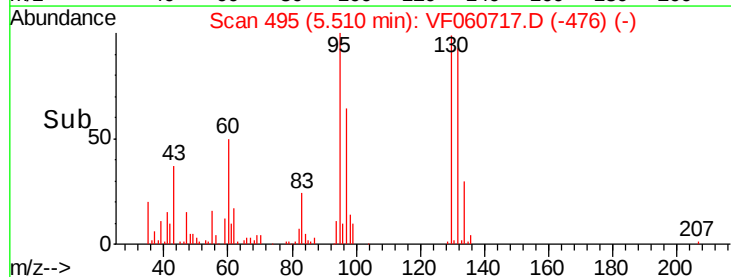
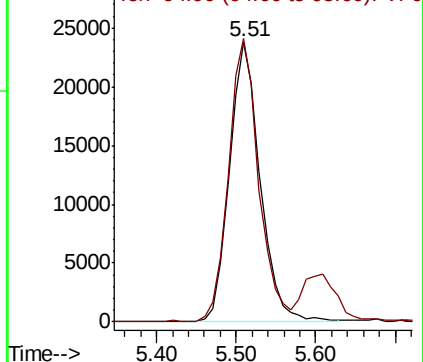
Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	212.6

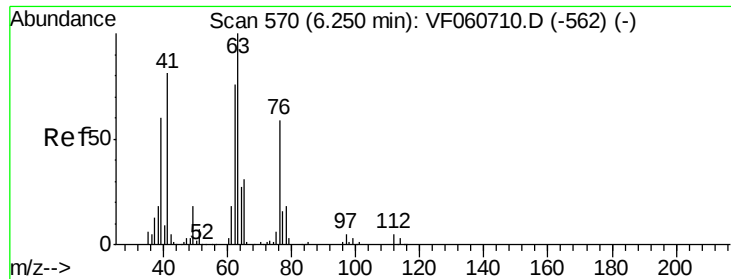


Abundance

Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 19.987 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 63 Resp: 50657

Ion Ratio Lower Upper

63 100

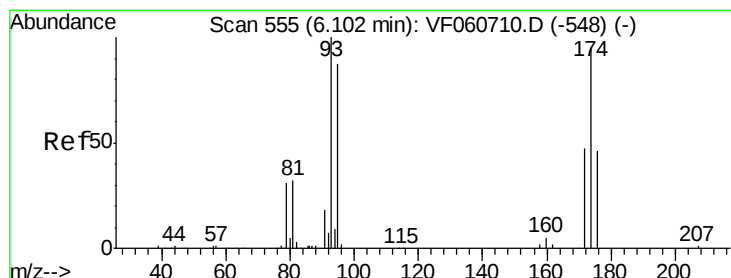
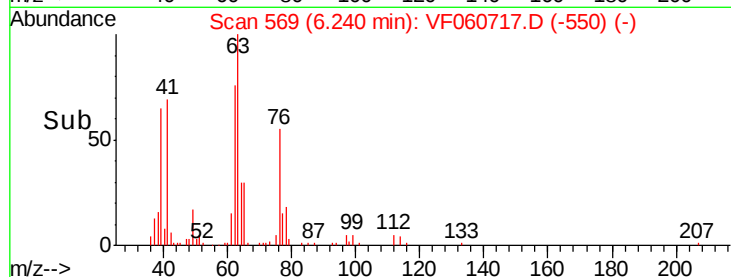
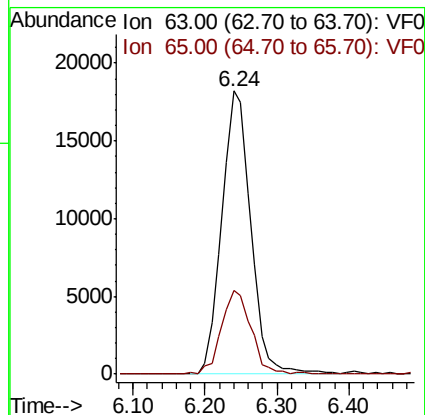
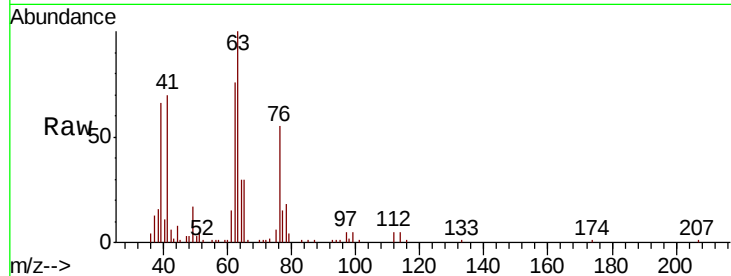
65 29.8 24.6 36.8

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#46

Dibromomethane

Concen: 18.791 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

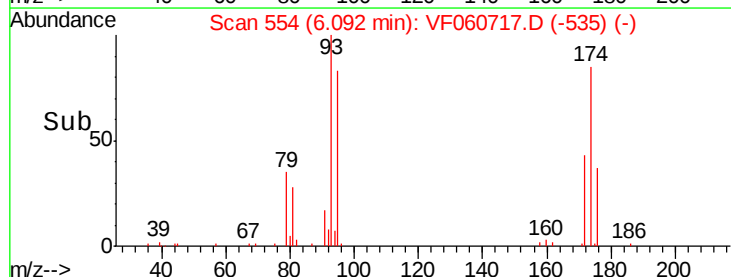
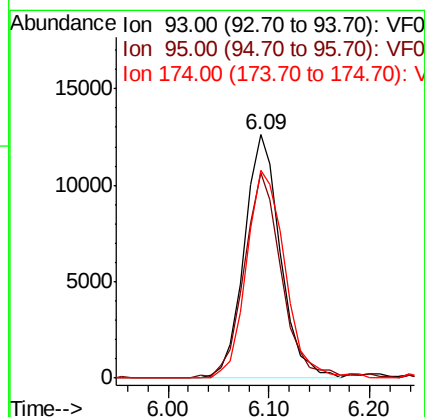
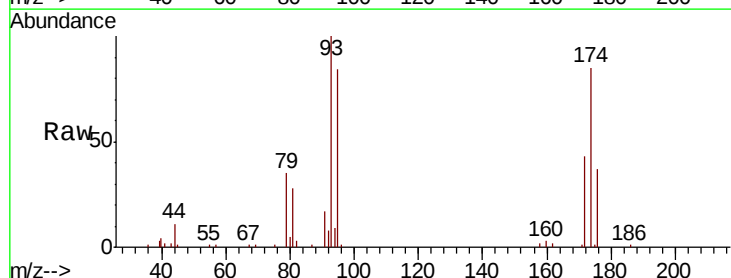
Tgt Ion: 93 Resp: 31437

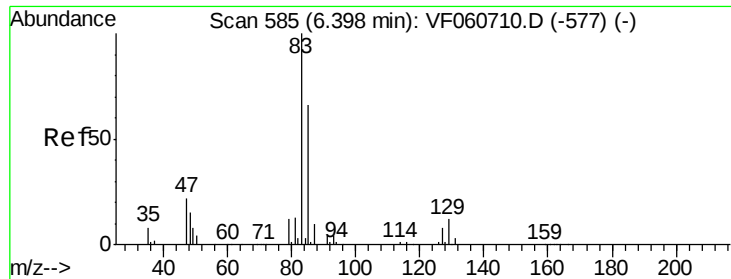
Ion Ratio Lower Upper

93 100

95 84.2 69.5 104.3

174 85.2 76.2 114.2





#47

Bromodichloromethane

Concen: 20.144 ug/l

RT: 6.40 min Scan# 585

Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

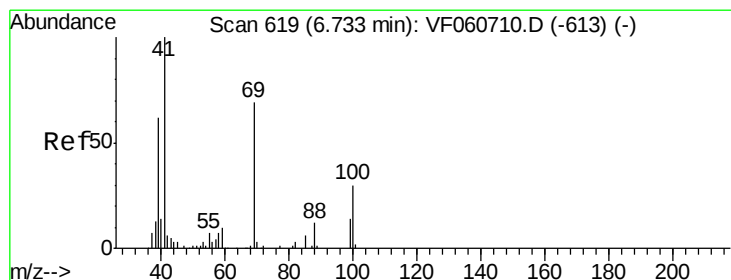
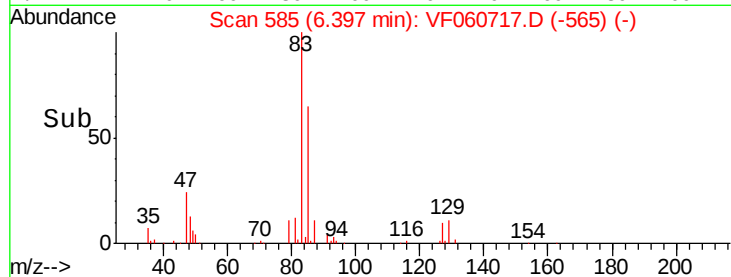
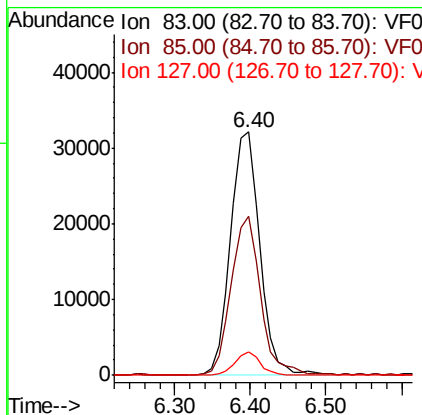
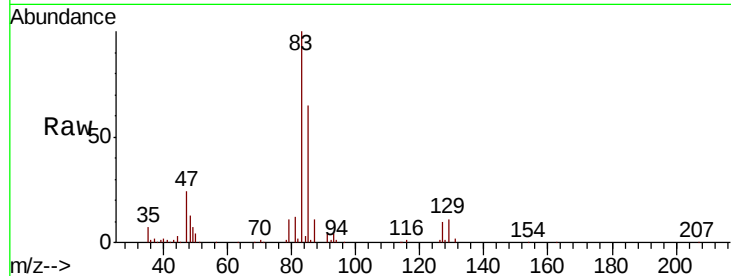
ClientSampleId :

VF1113SBS02

Tot Ion:	83	Resp:	86059
Ion	Ratio	Lower	Upper
83	100		
85	65.3	52.4	78.6
127	9.6	6.8	10.2

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#48

Methyl methacrylate

Concen: 19.397 ug/l

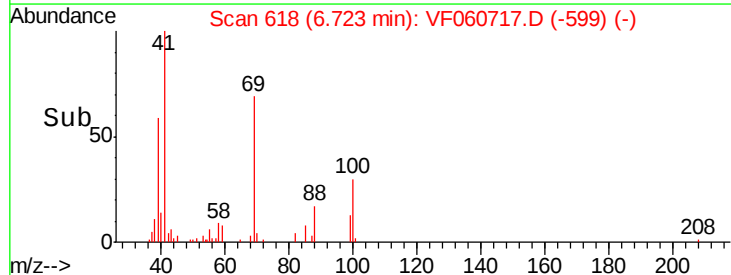
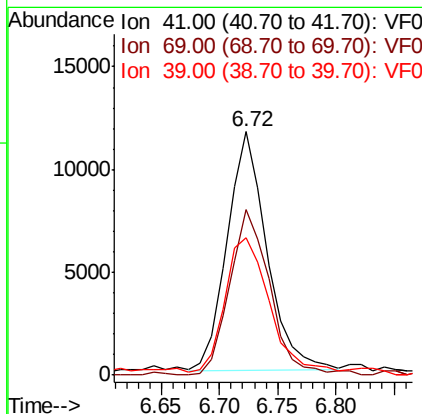
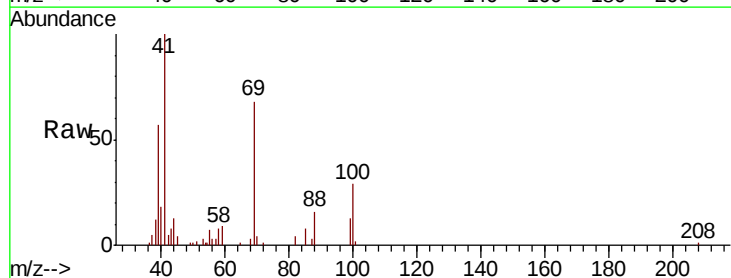
RT: 6.72 min Scan# 618

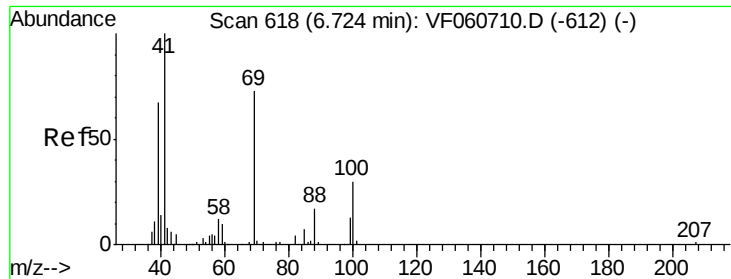
Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	41	Resp:	27649
Ion	Ratio	Lower	Upper
41	100		
69	67.8	54.9	82.3
39	56.6	49.6	74.4





#49

1,4-Dioxane

Concen: 442.508 ug/l

RT: 6.72 min Scan# 618

Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

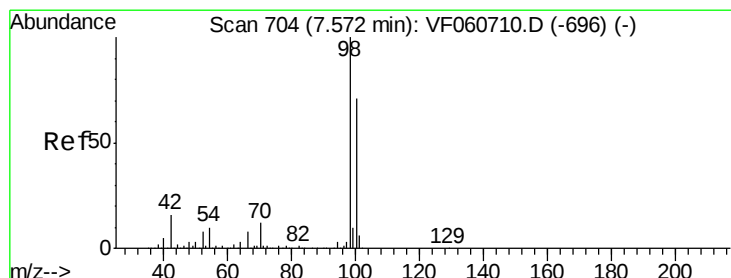
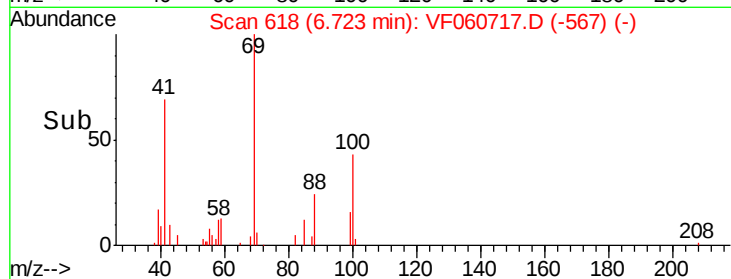
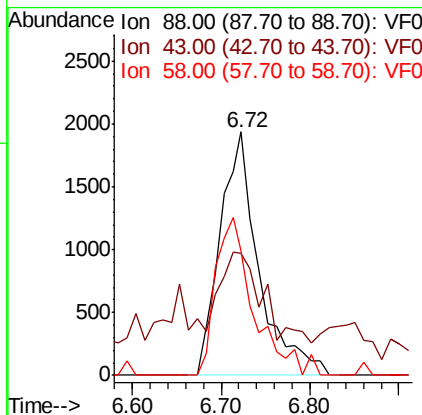
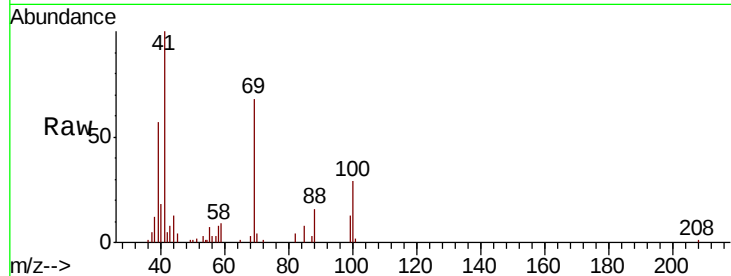
ClientSampleId :

VF1113SBS02

Tot Ion:	88	Resp:	5899
Ion	Ratio	Lower	Upper
88	100		
43	49.9	44.6	66.8
58	51.3	54.5	81.7#

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#50

Toluene-d8

Concen: 47.321 ug/l

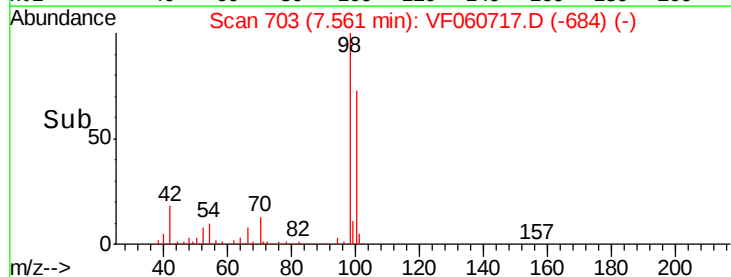
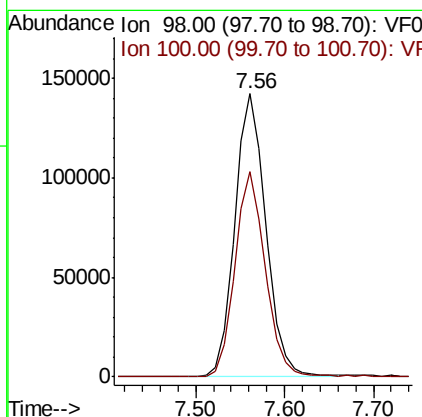
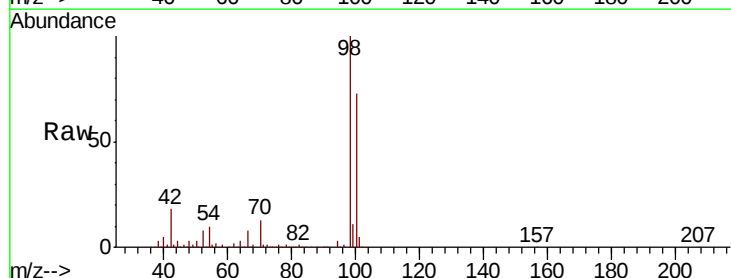
RT: 7.56 min Scan# 703

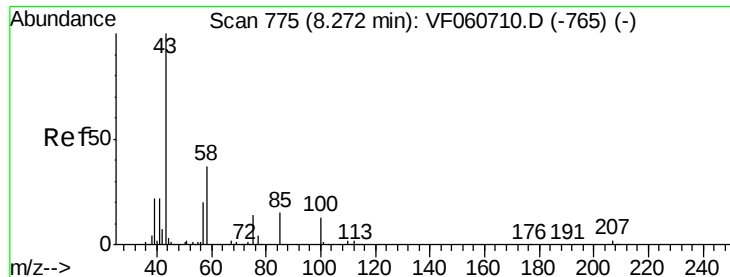
Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	98	Resp:	345317
Ion	Ratio	Lower	Upper
98	100		
100	72.6	56.5	84.7





#51

4-Methyl-2-Pentanone

Concen: 103.481 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 43 Resp: 161192

Ion Ratio Lower Upper

43 100

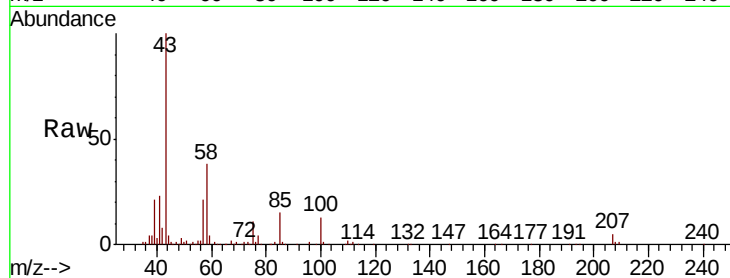
58 38.1 29.2 43.8

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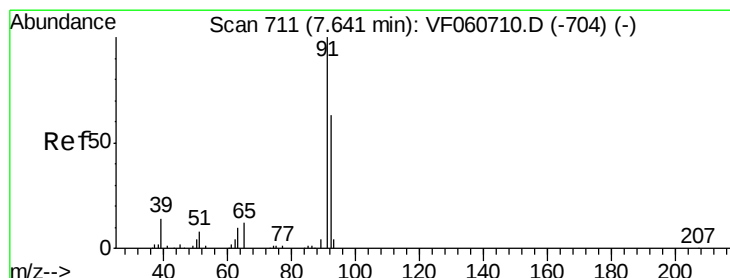
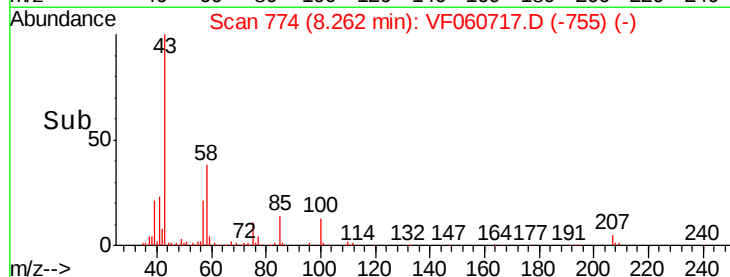
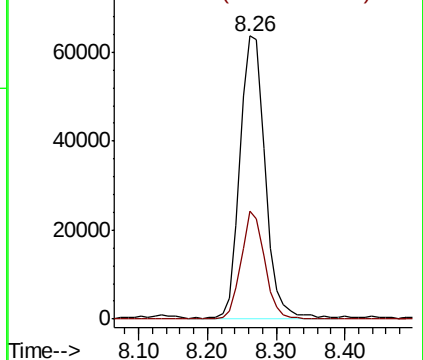
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.365 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF060717.D

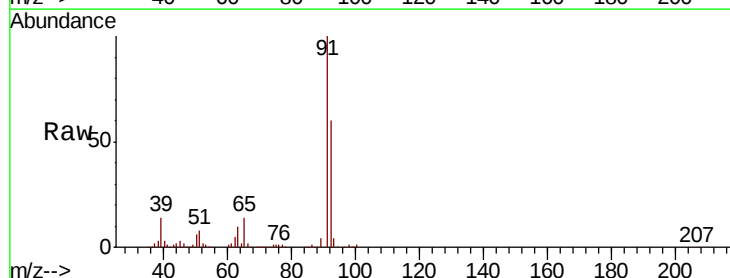
Acq: 13 Nov 2018 19:36

Tgt Ion: 92 Resp: 126393

Ion Ratio Lower Upper

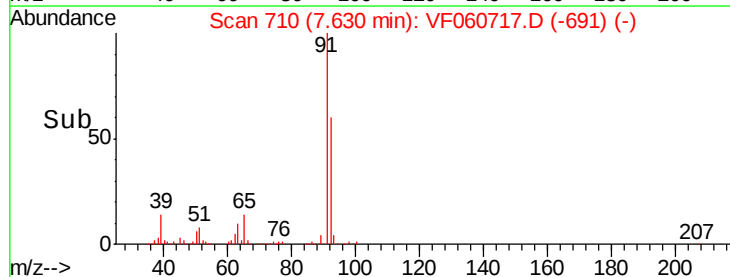
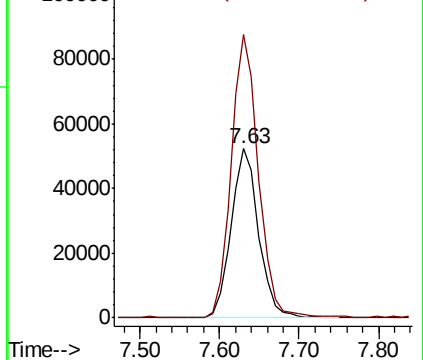
92 100

91 167.3 126.7 190.1



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: 19.535 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 75 Resp: 66846

Ion Ratio Lower Upper

75 100

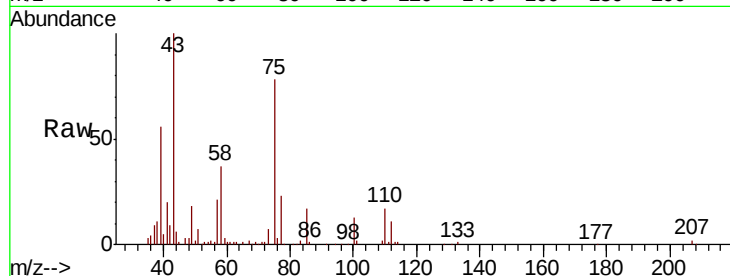
77 30.3 24.6 36.8

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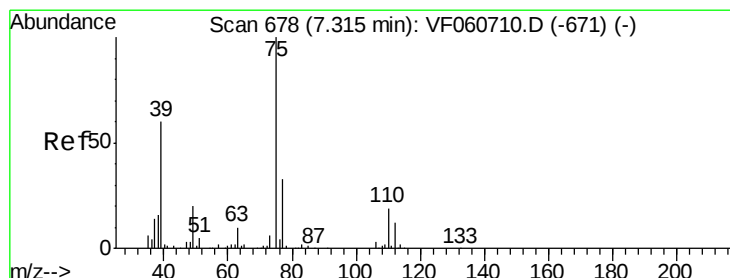
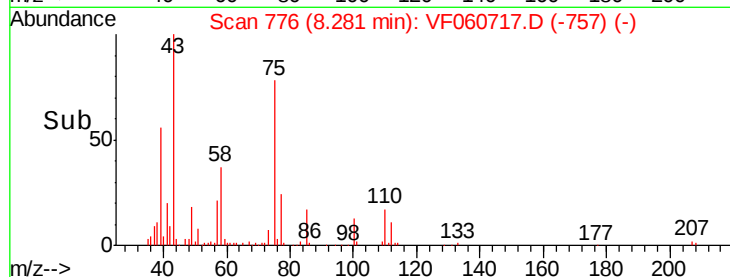
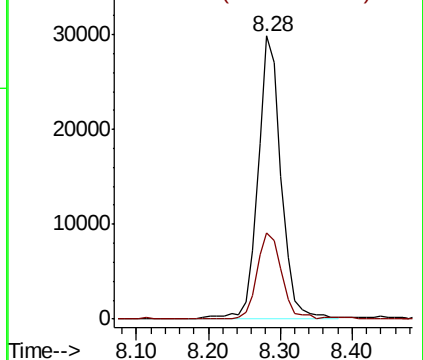
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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 19.823 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

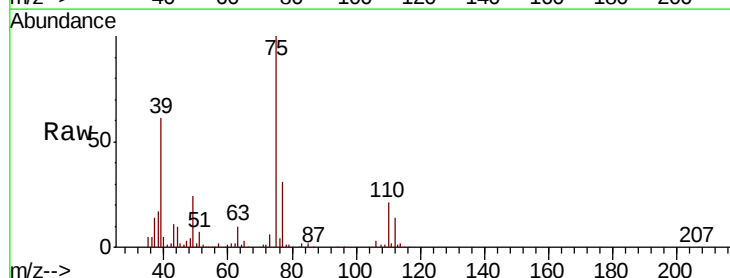
Tgt Ion: 75 Resp: 88109

Ion Ratio Lower Upper

75 100

77 30.8 26.5 39.7

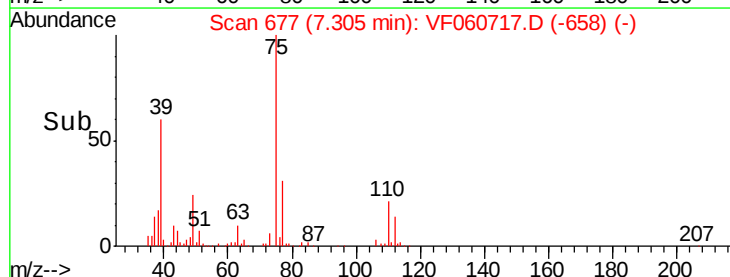
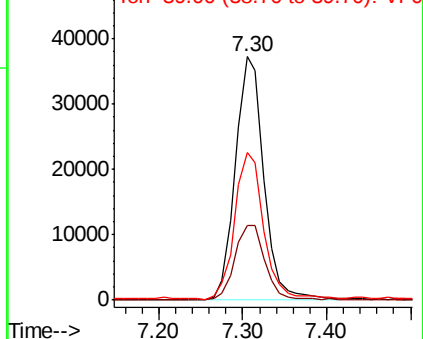
39 60.8 48.5 72.7

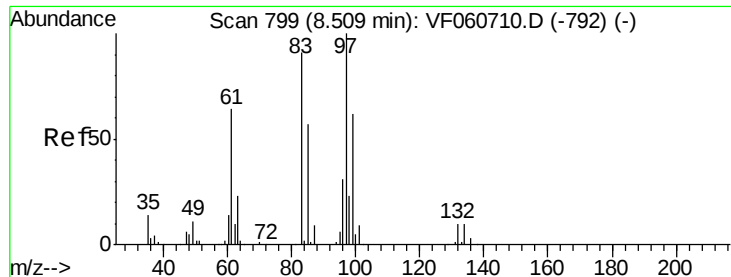


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 20.020 ug/l

RT: 8.50 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

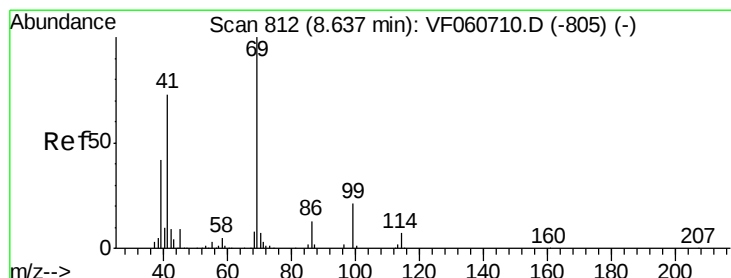
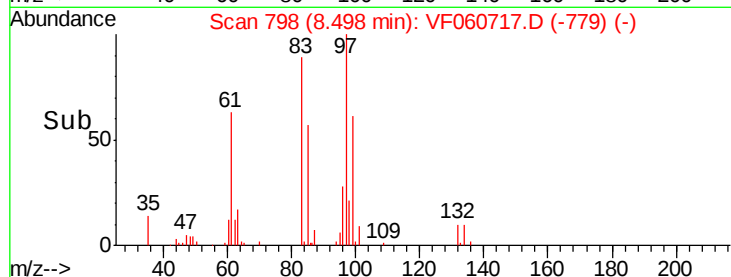
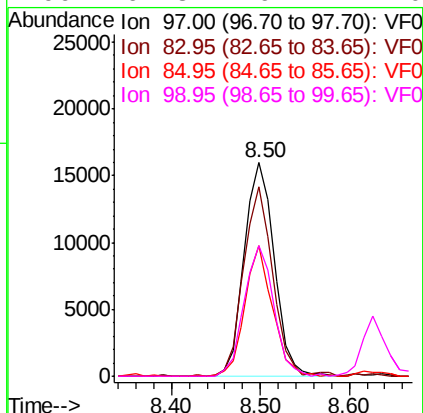
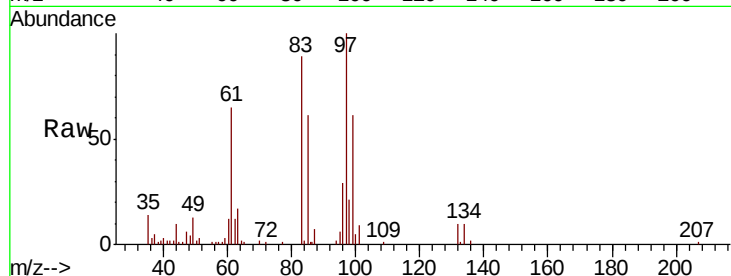
ClientSampleId :

VF1113SBS02

Tot Ion:	97	Resp:	37334
Ion	Ratio	Lower	Upper
97	100		
83	88.7	72.8	109.2
85	61.2	45.8	68.6
99	61.3	49.4	74.0

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.463 ug/l

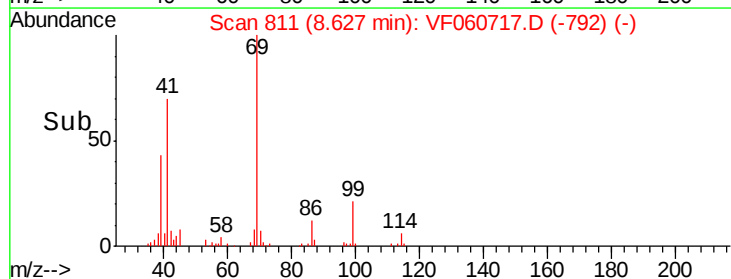
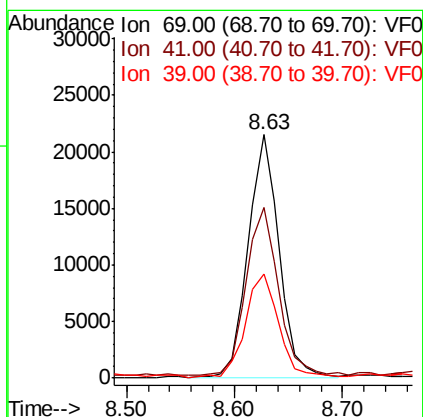
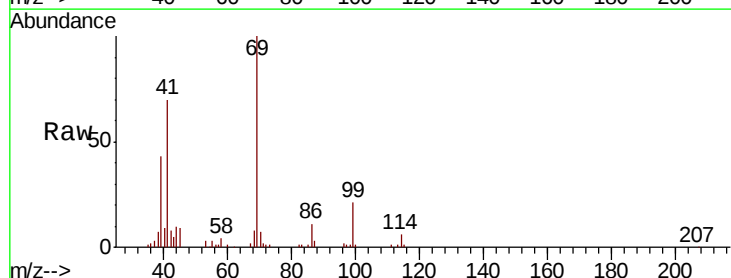
RT: 8.63 min Scan# 811

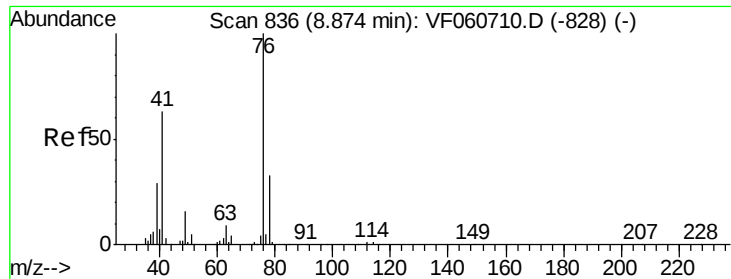
Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	69	Resp:	43339
Ion	Ratio	Lower	Upper
69	100		
41	70.1	59.0	88.6
39	42.5	34.0	51.0





#57

1,3-Dichloropropane

Concen: 19.284 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.02 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 76 Resp: 62324

Ion Ratio Lower Upper

76 100

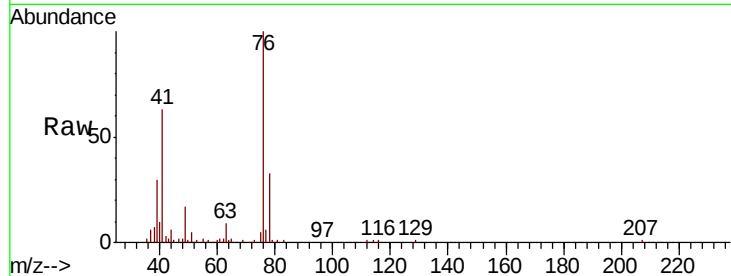
78 33.2 26.6 39.8

Manual Integrations

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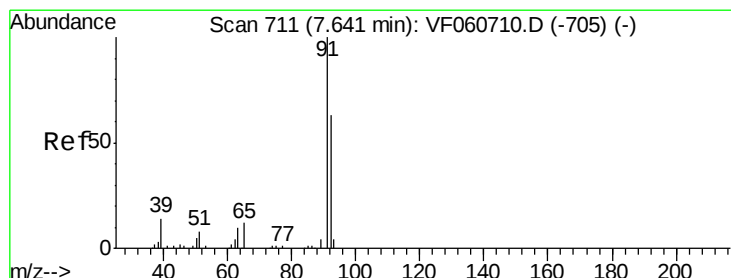
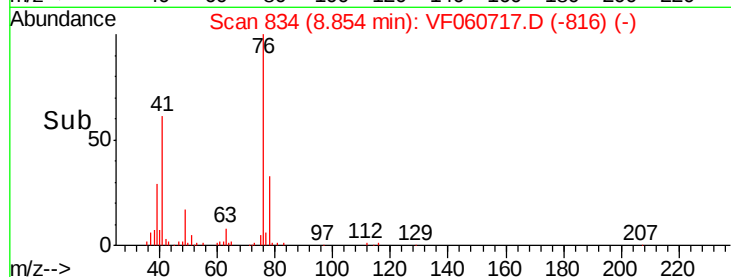
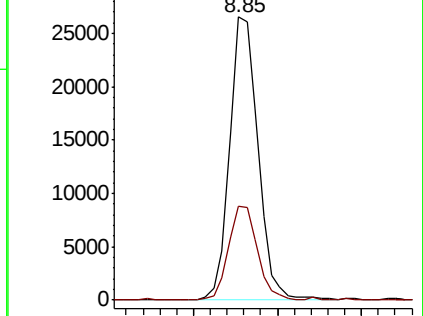
sam

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Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 102.767 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF060717.D

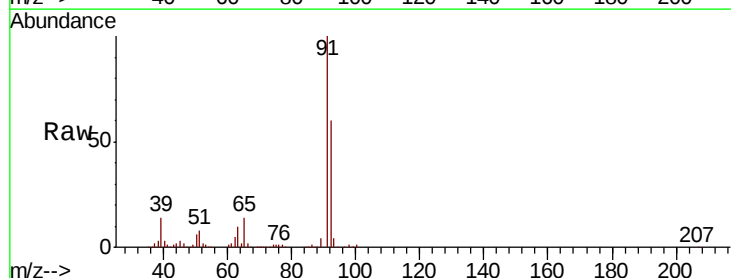
Acq: 13 Nov 2018 19:36

Tgt Ion: 63 Resp: 19882

Ion Ratio Lower Upper

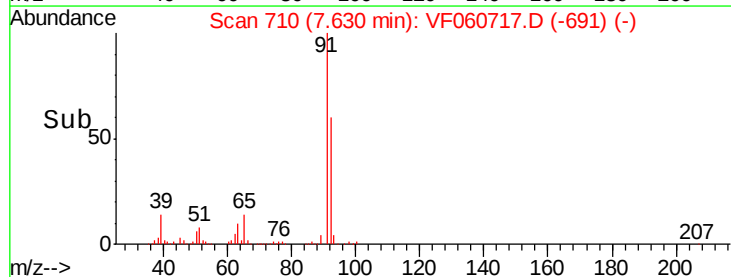
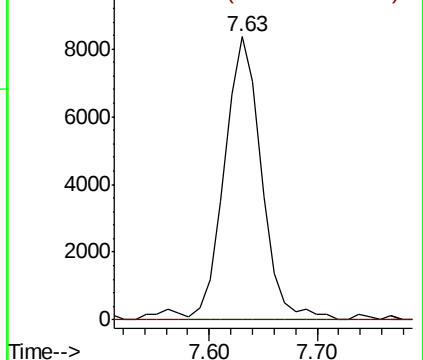
63 100

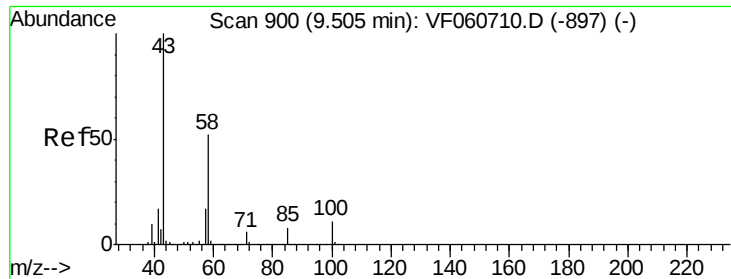
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





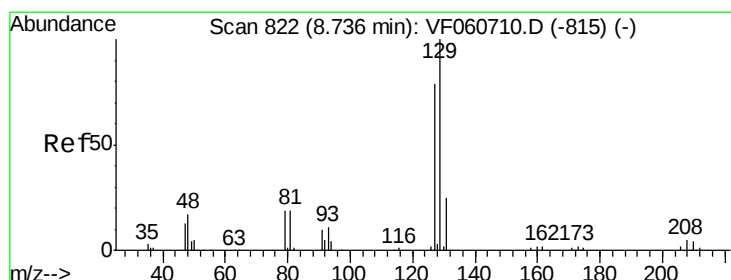
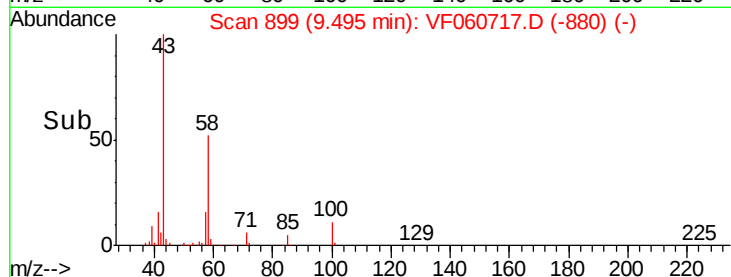
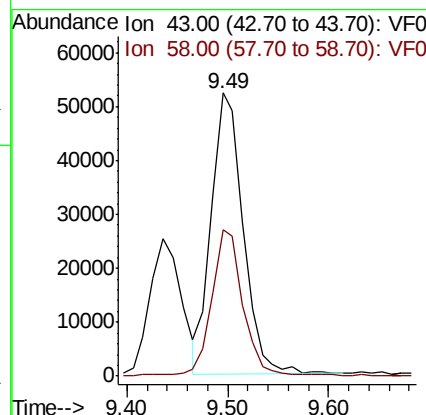
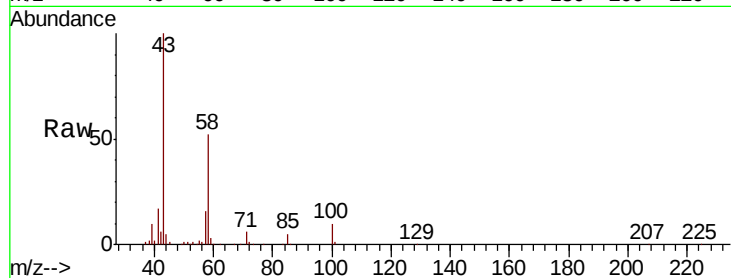
#59
2-Hexanone
Concen: 105.484 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

Tot Ion: 43 Resp: 115474
Ion Ratio Lower Upper
43 100
58 51.6 24.9 74.7

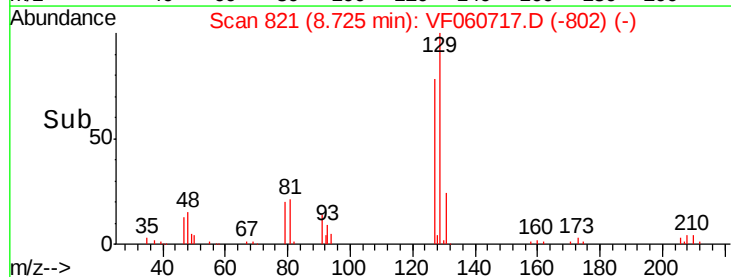
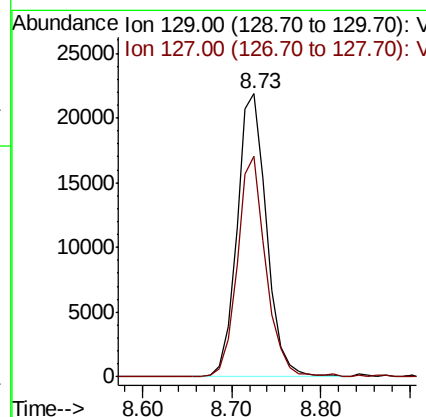
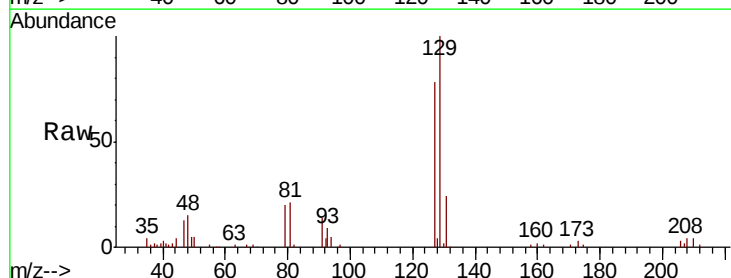
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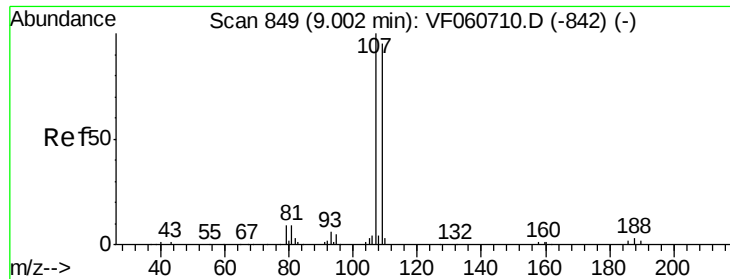
sam
11/14/2018 11:54:01 AM



#60
Dibromochloromethane
Concen: 19.020 ug/l
RT: 8.73 min Scan# 821
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion: 129 Resp: 50549
Ion Ratio Lower Upper
129 100
127 78.0 39.7 119.1





#61

1,2-Dibromoethane

Concen: 19.002 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion:107 Resp: 37267

Ion Ratio Lower Upper

107 100

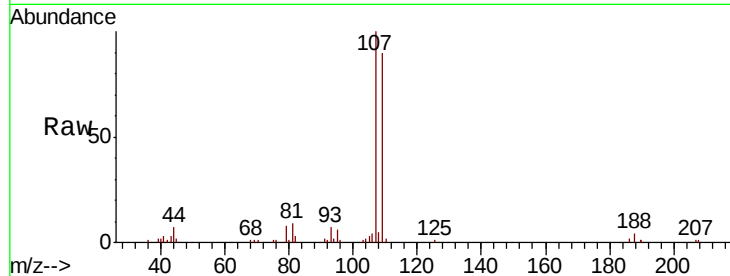
109 90.2 75.9 113.9

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.99

15000

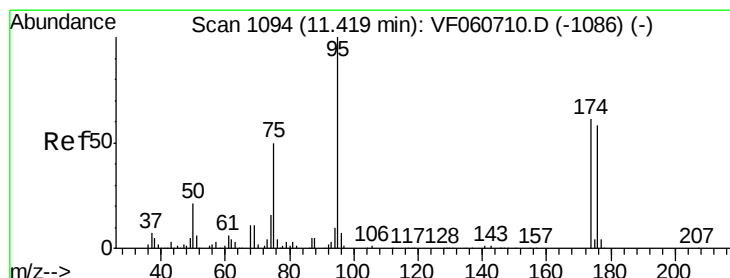
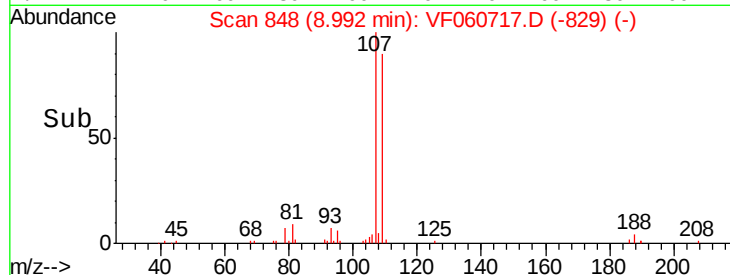
10000

5000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 50.514 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

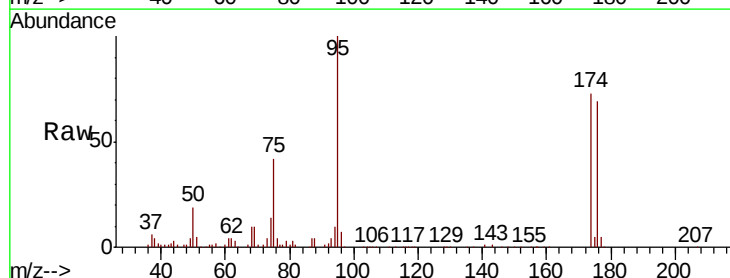
Tgt Ion: 95 Resp: 169144

Ion Ratio Lower Upper

95 100

174 73.0 0.0 121.6

176 68.7 0.0 115.2



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

120000

100000

80000

60000

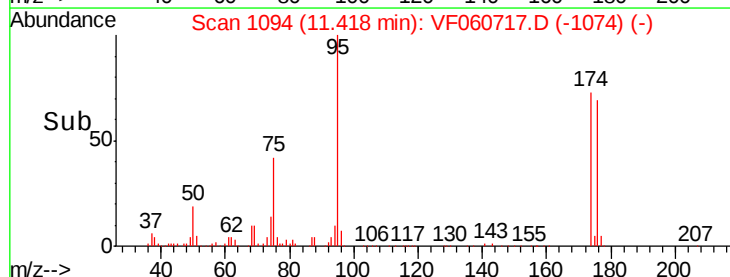
40000

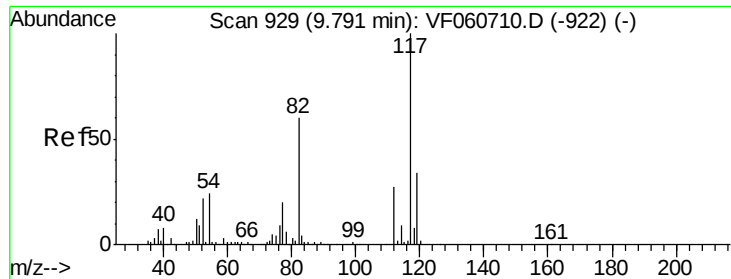
20000

0

11.30 11.40 11.50 11.60

Time-->





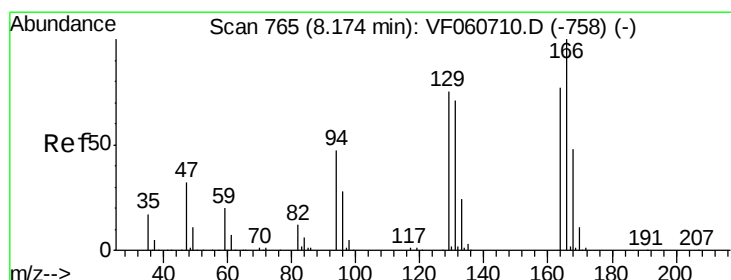
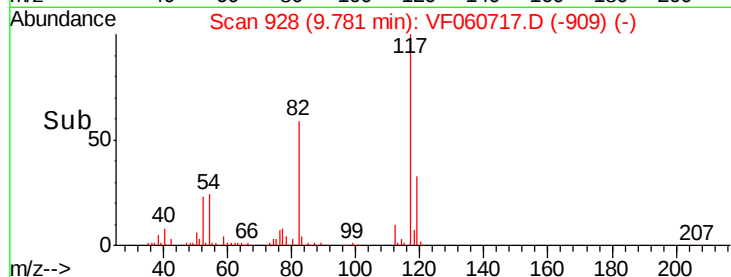
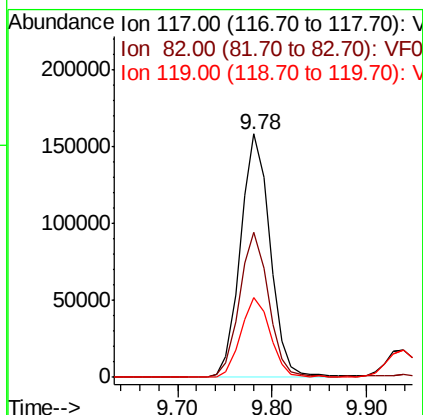
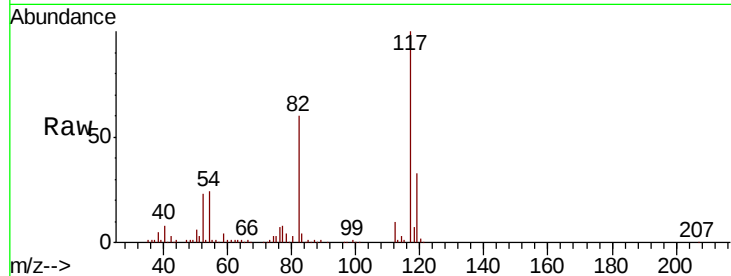
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
82	59.5	47.9	71.9	
119	32.9	26.8	40.2	

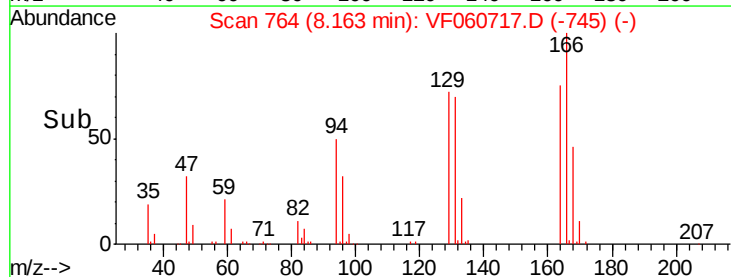
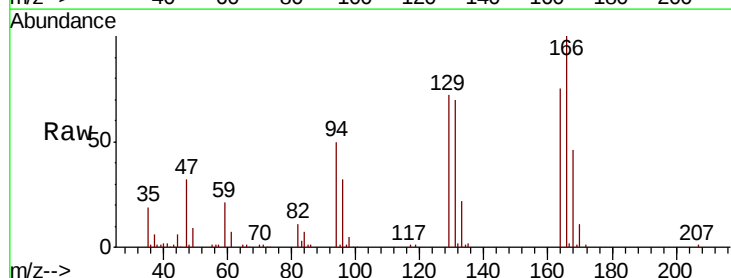
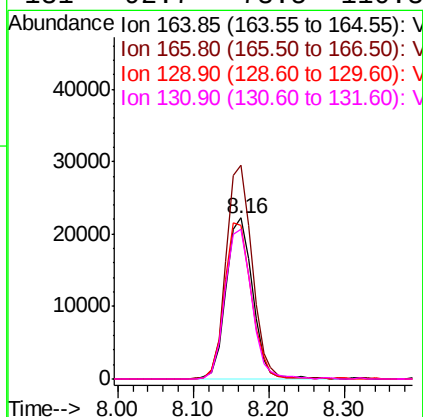
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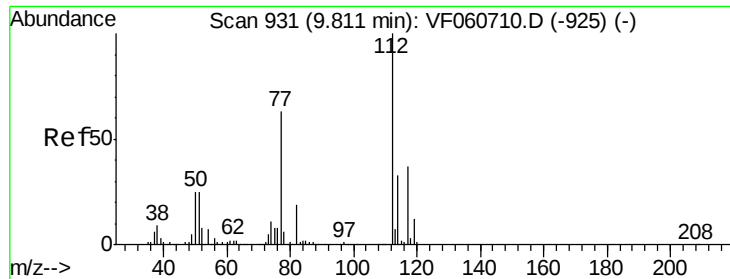
sam
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#64
Tetrachloroethene
Concen: 19.695 ug/l
RT: 8.16 min Scan# 764
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	132.6	103.5	155.3	
129	95.1	77.4	116.2	
131	92.7	73.5	110.3	





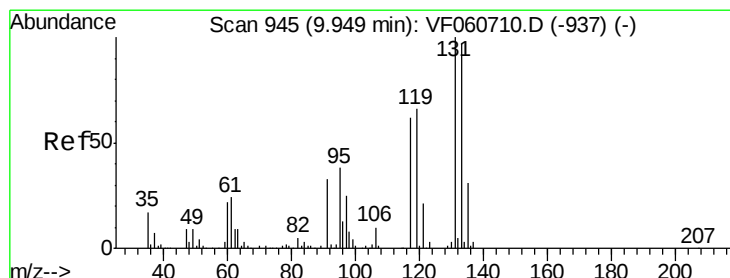
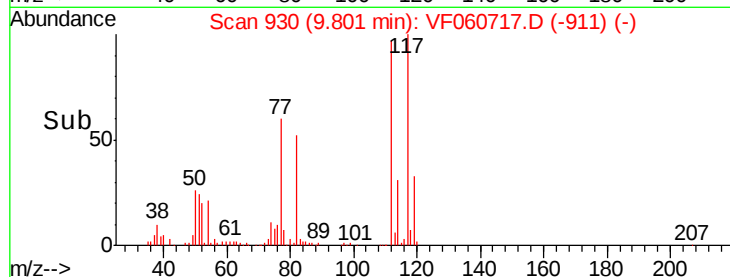
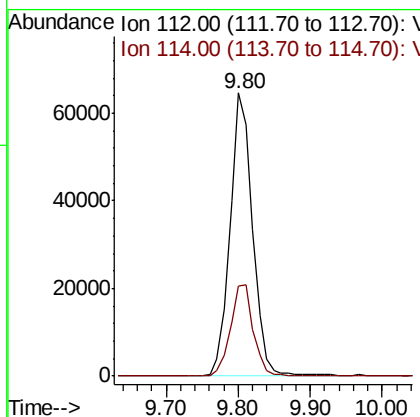
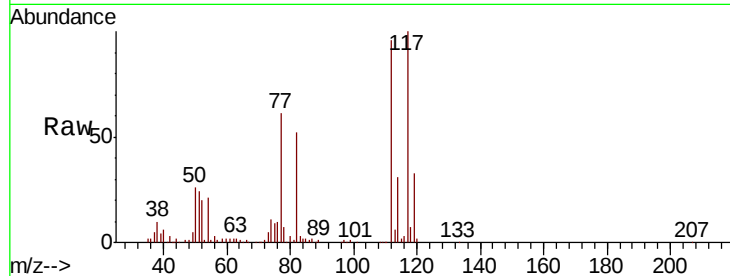
#65
Chlorobenzene
Concen: 20.214 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

Tot Ion:112 Resp: 140962
Ion Ratio Lower Upper
112 100
114 31.7 26.1 39.1

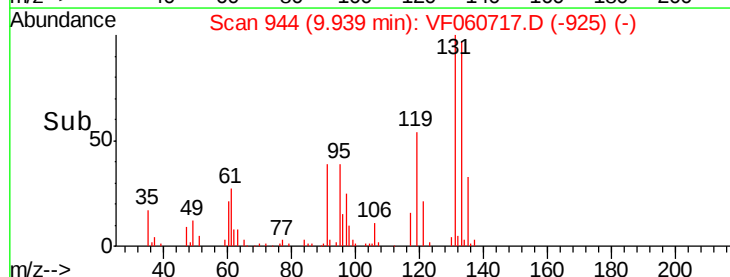
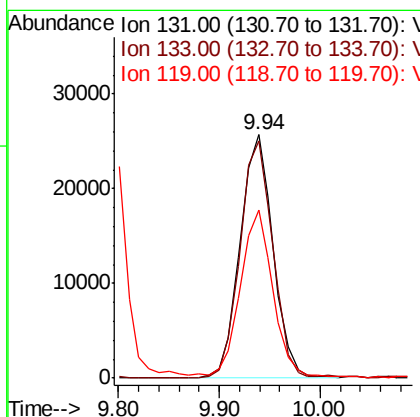
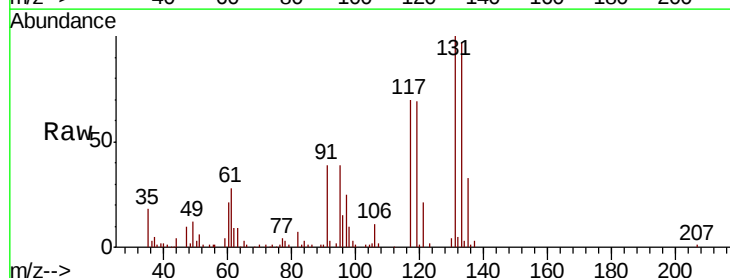
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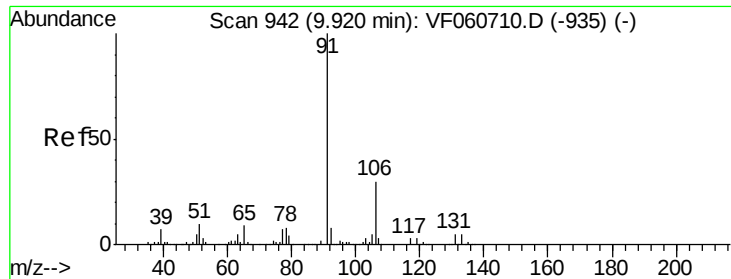
sam
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.275 ug/l
RT: 9.94 min Scan# 944
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion:131 Resp: 58626
Ion Ratio Lower Upper
131 100
133 97.2 48.3 144.8
119 68.9 33.2 99.6





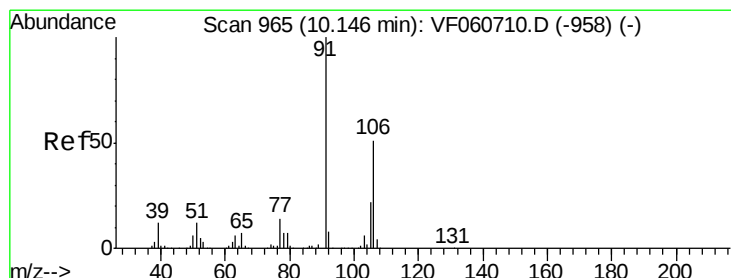
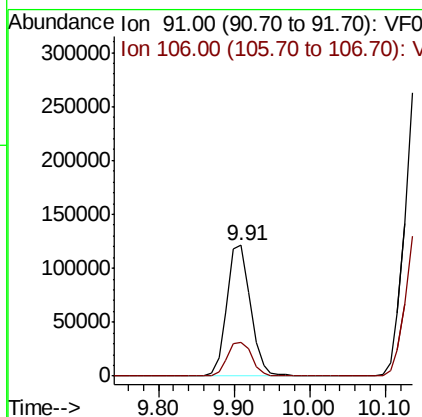
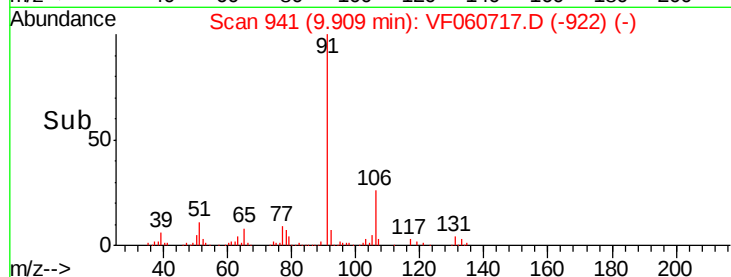
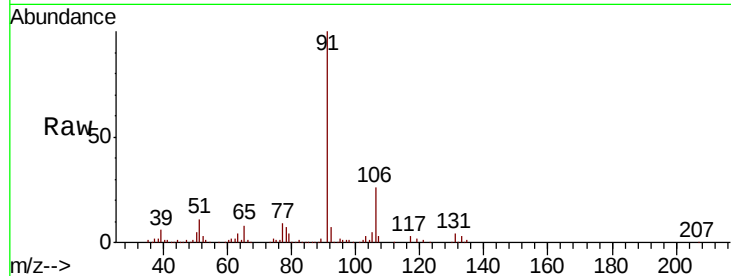
#67
Ethyl Benzene
Concen: 20.086 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

Tot Ion: 91 Resp: 264017
Ion Ratio Lower Upper
91 100
106 26.0 23.9 35.9

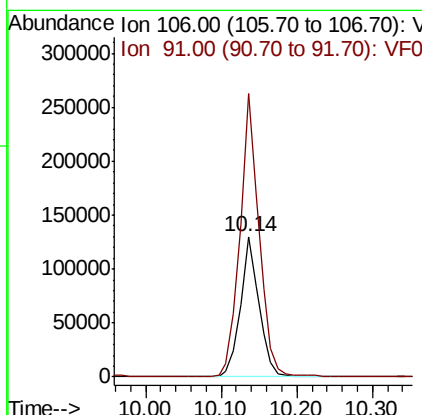
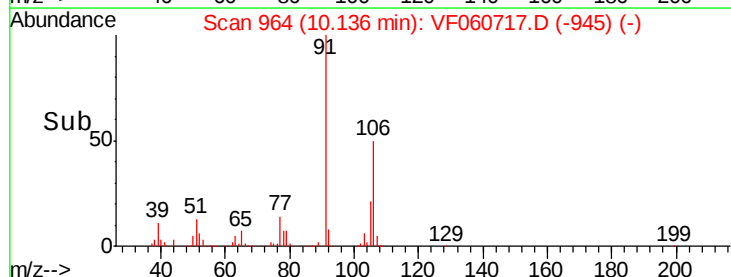
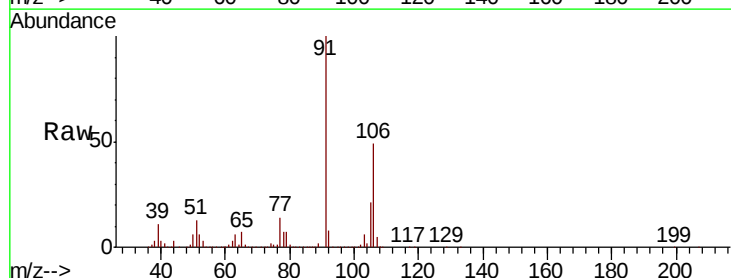
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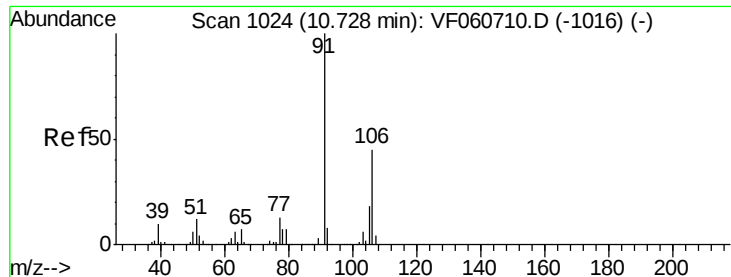
sam
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#68
m/p-Xylenes
Concen: 46.886 ug/l
RT: 10.14 min Scan# 964
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion: 106 Resp: 220243
Ion Ratio Lower Upper
106 100
91 202.2 158.2 237.2





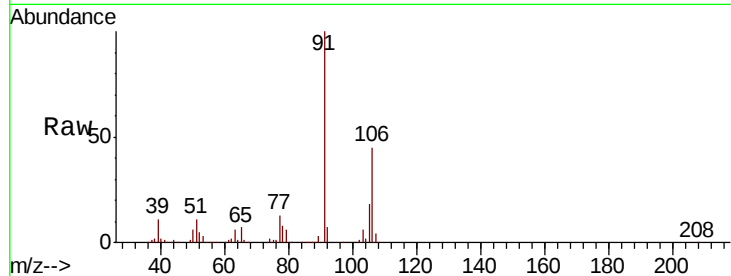
#69
o-Xylene
Concen: 20.394 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

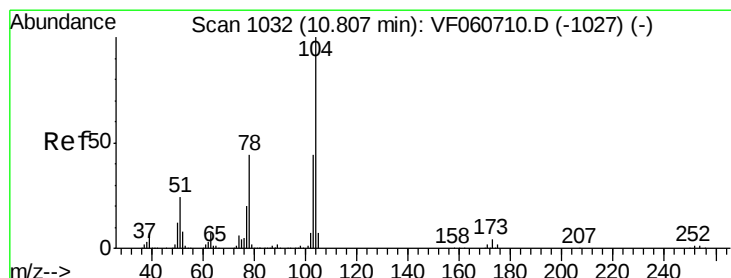
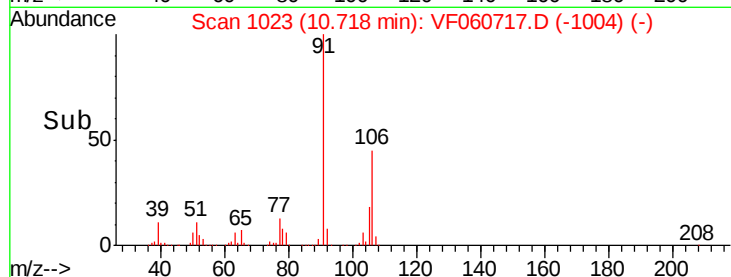
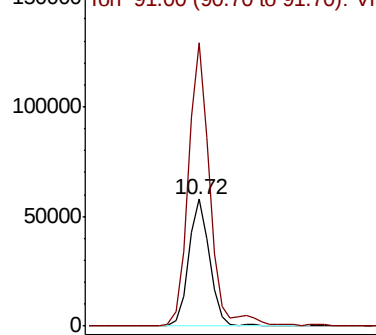
Tot Ion	Ratio	Lower	Upper
106	100		
91	222.7	110.3	330.9

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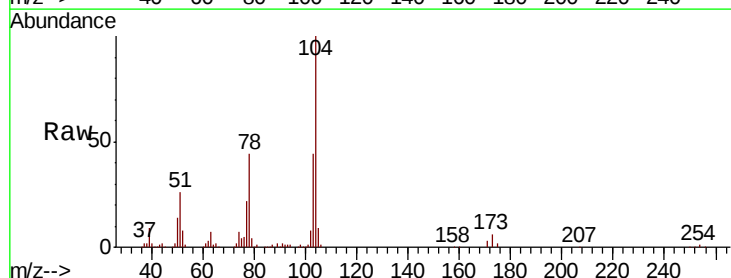


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

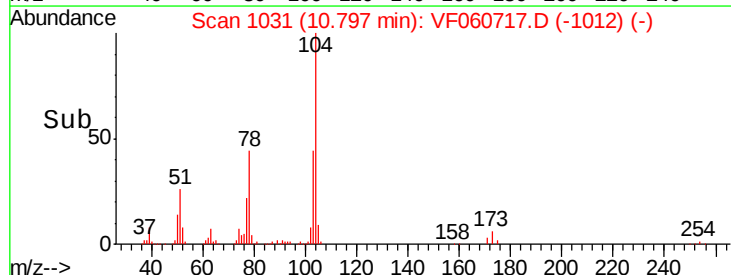
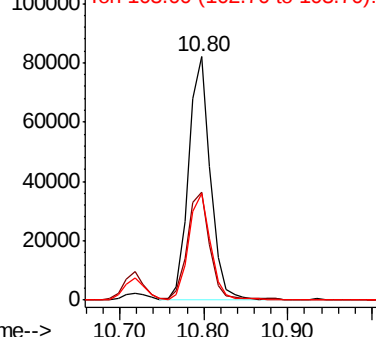


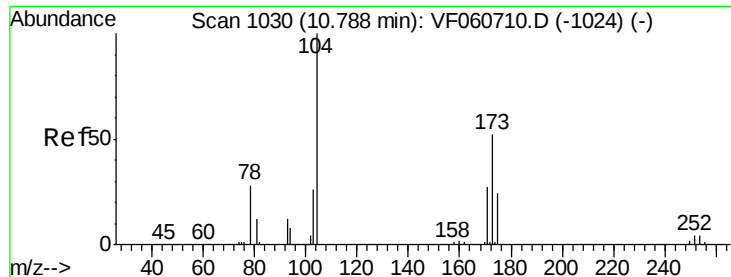
#70
Styrene
Concen: 20.513 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion	Ratio	Lower	Upper
104	100		
78	44.1	35.4	53.2
103	43.6	35.8	53.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 19.436 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion:173 Resp: 26583

Ion Ratio Lower Upper

173 100

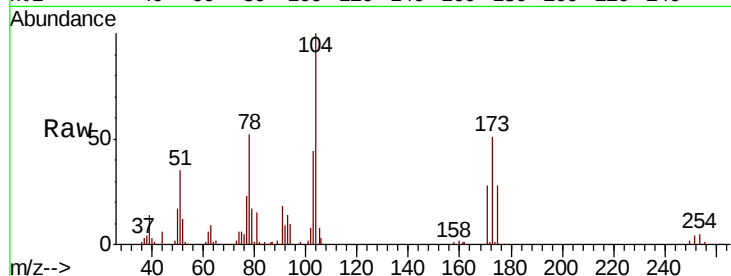
175 55.1 23.4 70.0

254 0.0 5.8 8.8#

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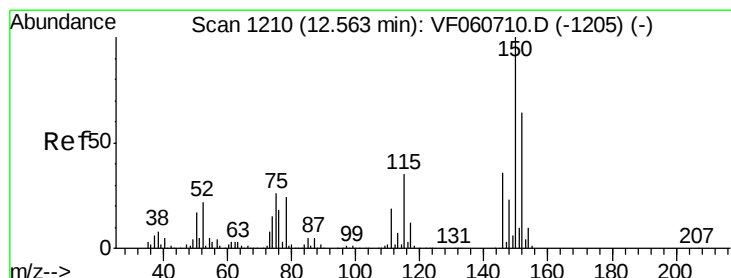
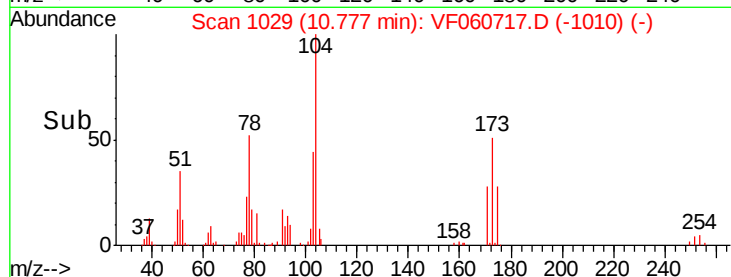
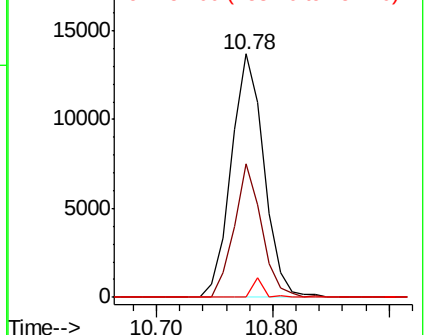
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Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

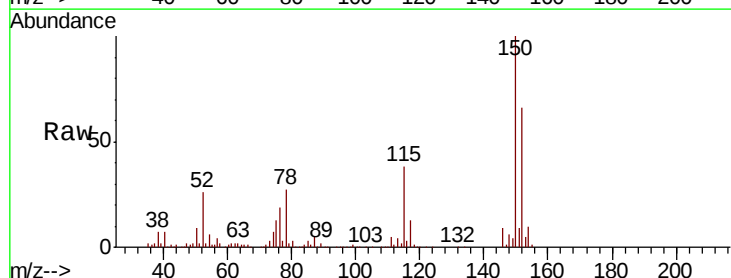
Tgt Ion:152 Resp: 192511

Ion Ratio Lower Upper

152 100

115 57.8 27.9 83.7

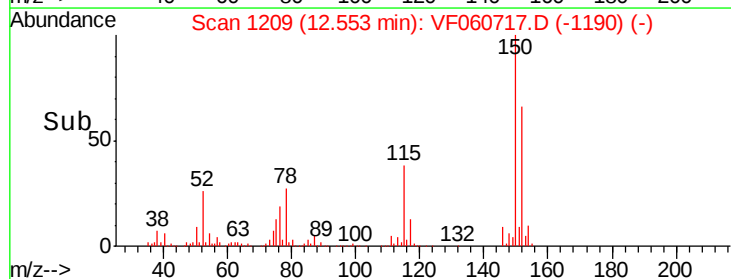
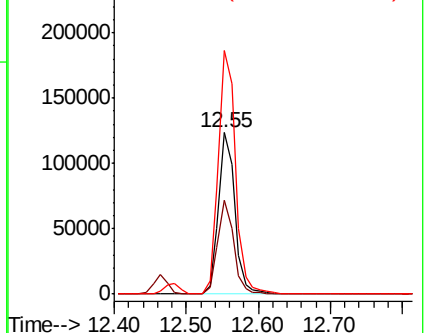
150 150.6 0.0 316.4

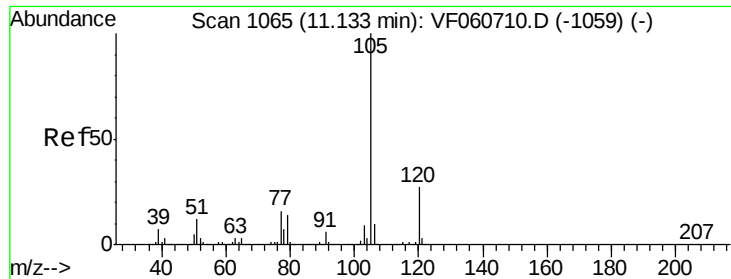


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.058 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion:105 Resp: 326310

Ion Ratio Lower Upper

105 100

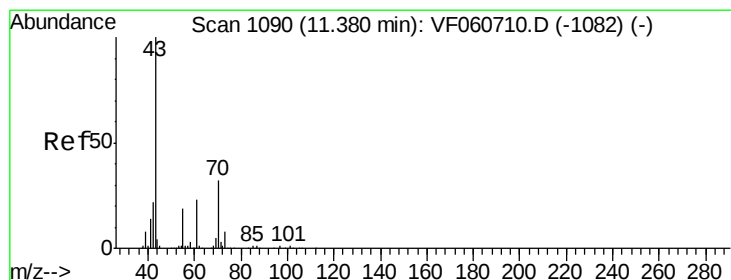
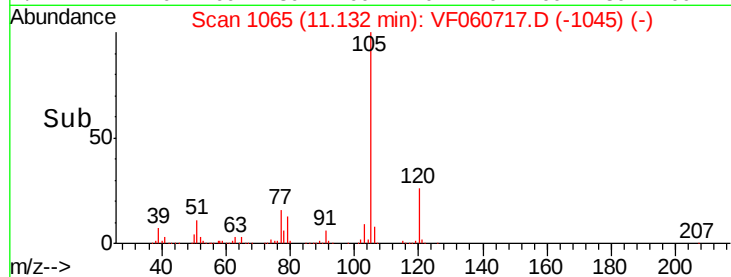
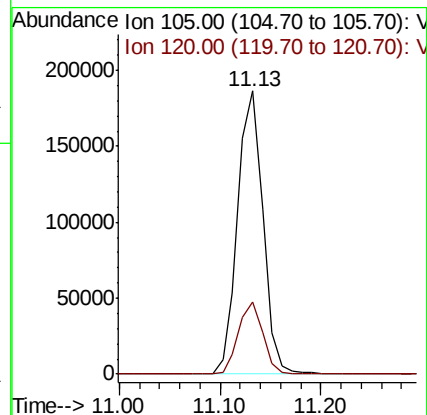
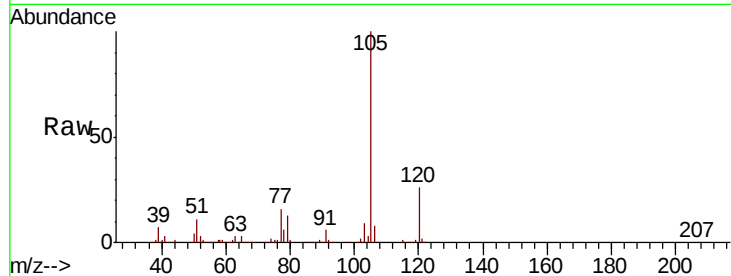
120 25.7 13.4 40.1

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#74

N-ethyl acetate

Concen: 21.694 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion: 43 Resp: 76529

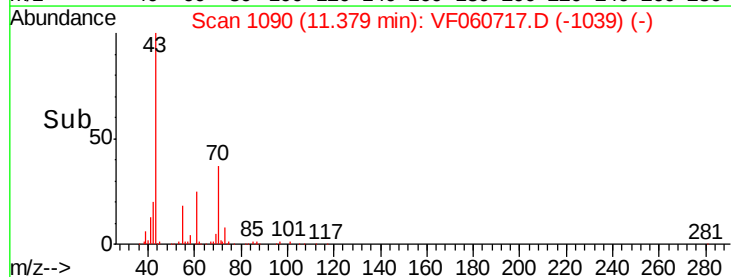
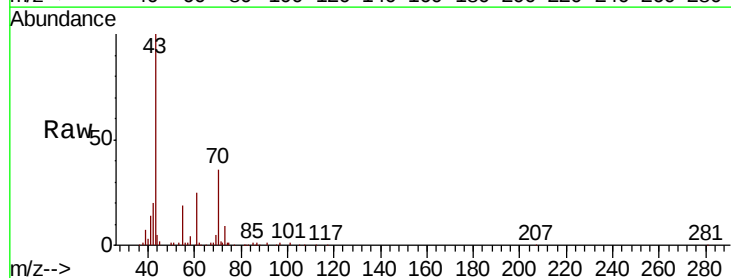
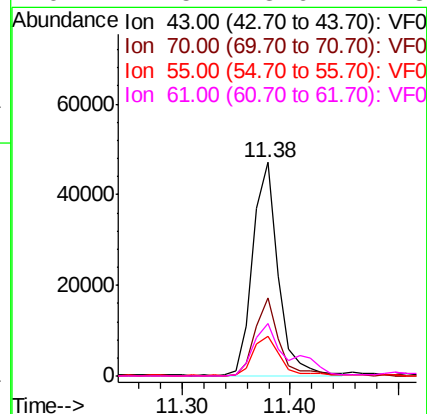
Ion Ratio Lower Upper

43 100

70 36.3 25.5 38.3

55 18.7 14.9 22.3

61 24.5 18.6 27.8





#75

1,1,2,2-Tetrachloroethane

Concen: 20.976 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

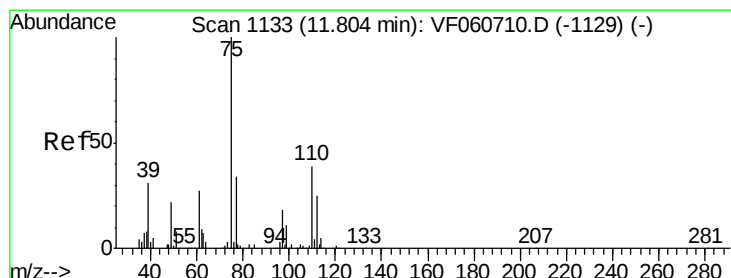
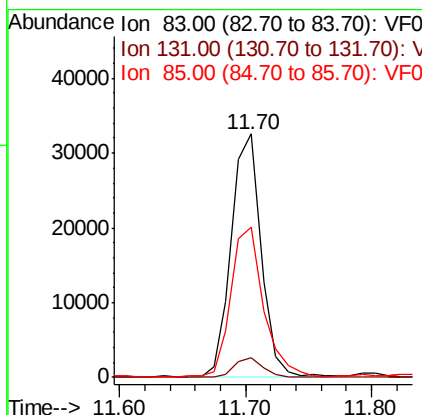
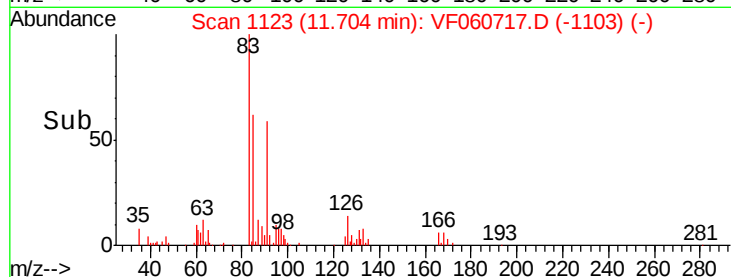
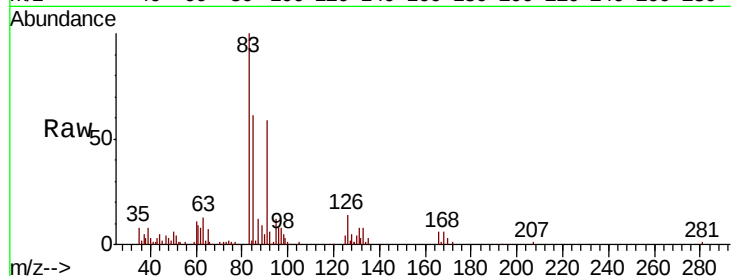
ClientSampleId :

VF1113SBS02

Tot Ion:	83	Resp:	53738
Ion Ratio	Lower	Upper	
83	100		
131	8.2	4.2	12.4
85	61.5	32.0	96.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.826 ug/l

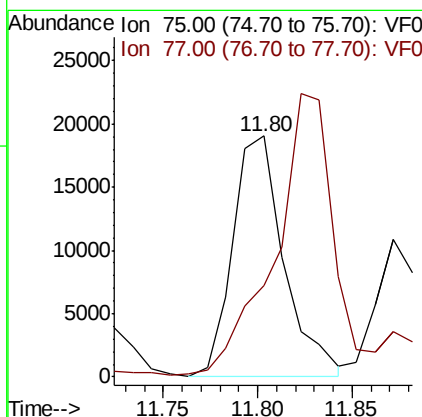
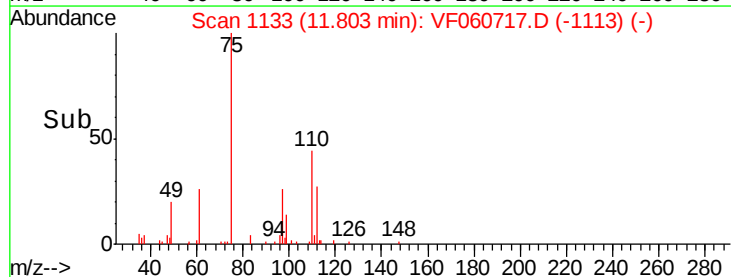
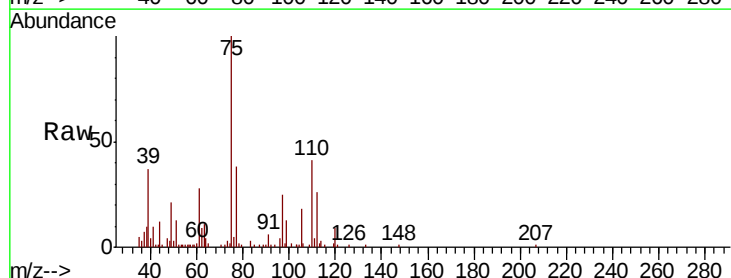
RT: 11.80 min Scan# 1133

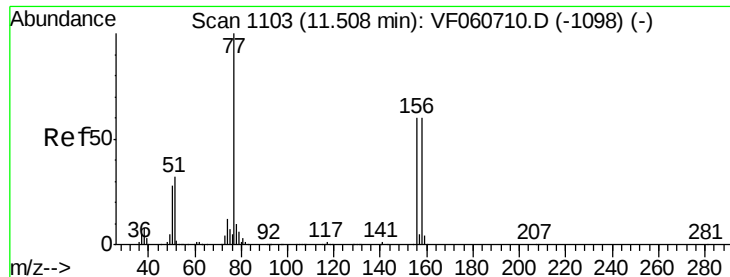
Delta R.T. -0.00 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	75	Resp:	35821
Ion Ratio	Lower	Upper	
75	100		
77	38.1	17.0	51.0





#77

Bromobenzene

Concen: 20.312 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

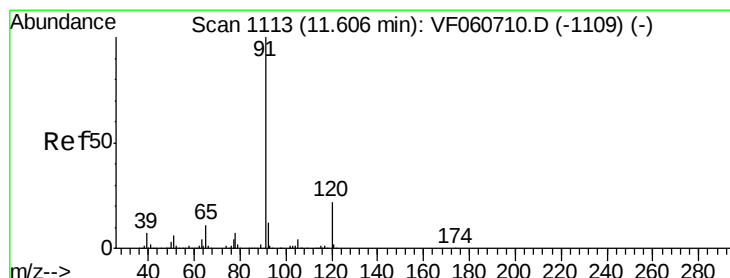
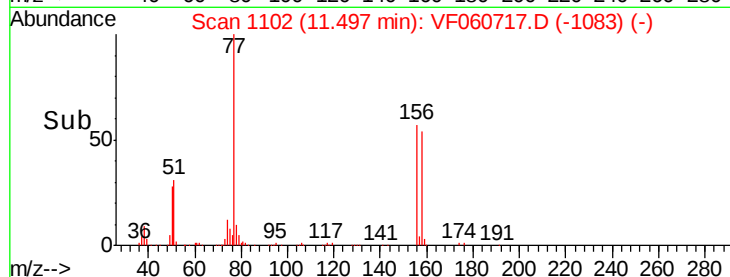
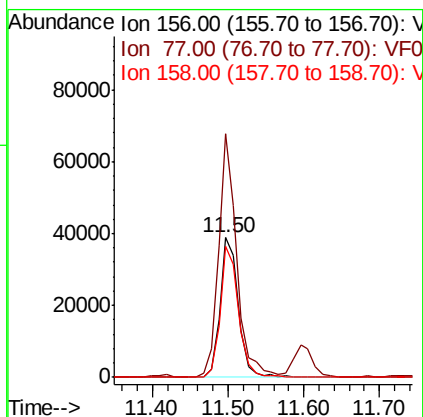
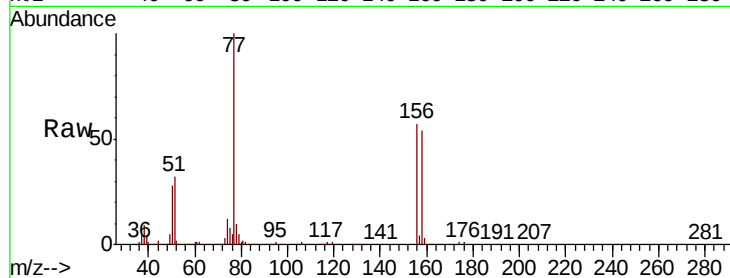
ClientSampleId :

VF1113SBS02

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	174.5	83.0	248.9	
158	93.7	49.6	149.0	

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#78

n-propylbenzene

Concen: 20.491 ug/l

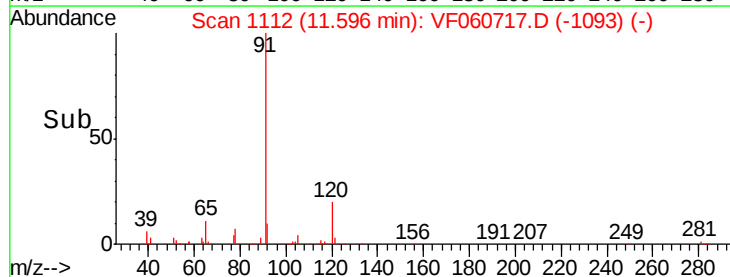
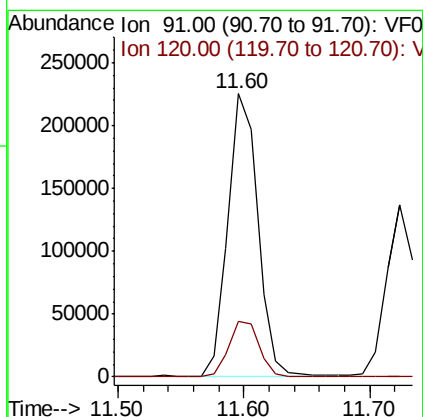
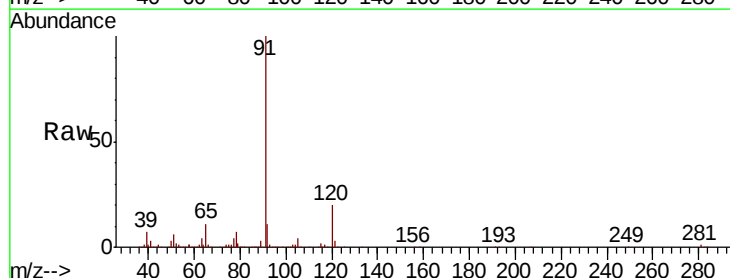
RT: 11.60 min Scan# 1112

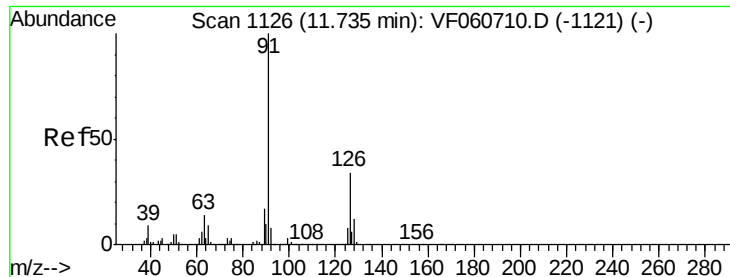
Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	19.8	11.2	33.5	





#79

2-Chlorotoluene

Concen: 20.547 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion: 91 Resp: 215824

Ion Ratio Lower Upper

91 100

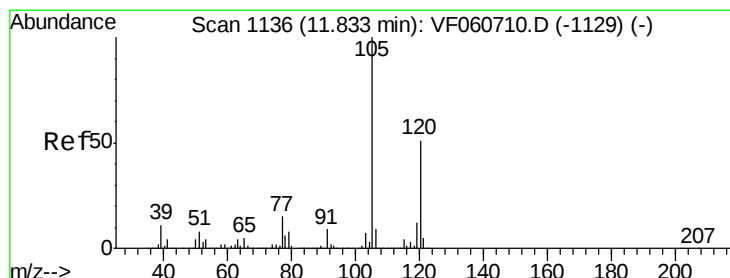
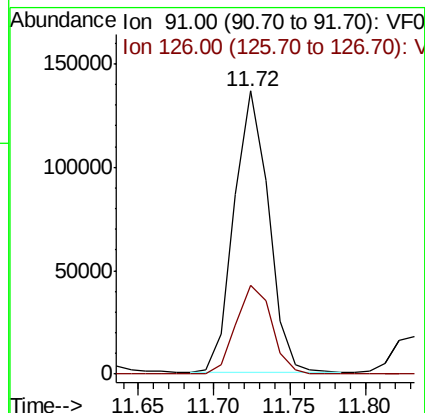
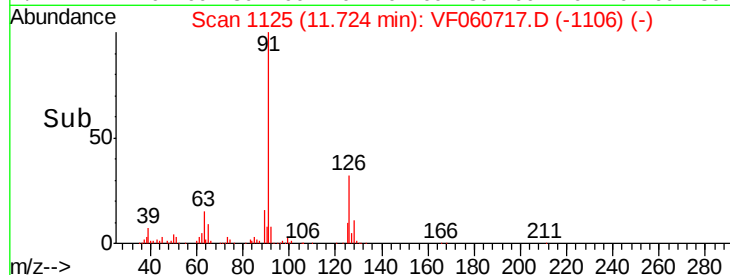
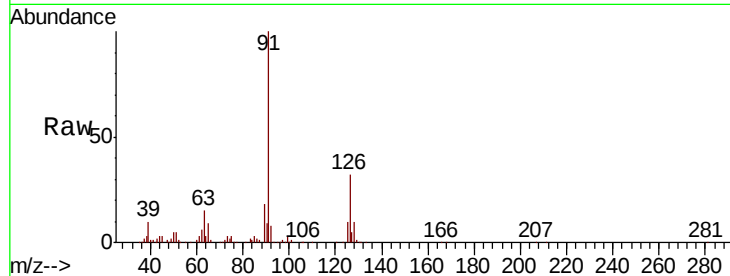
126 31.6 16.8 50.4

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#80

1,3,5-Trimethylbenzene

Concen: 22.056 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VF060717.D

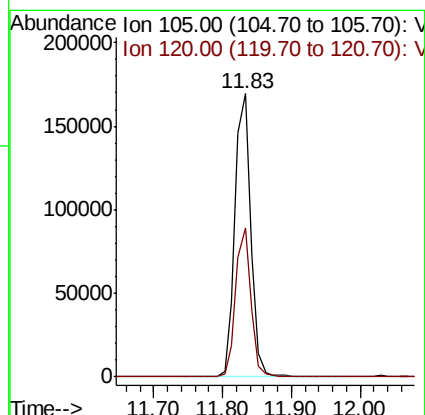
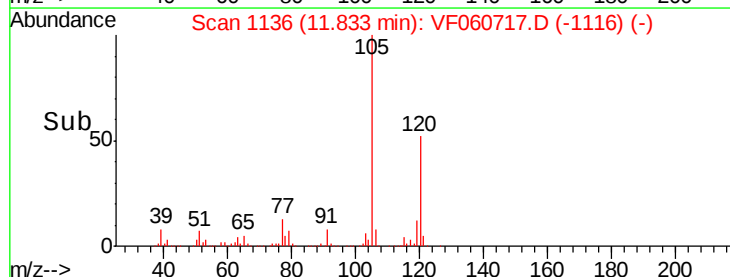
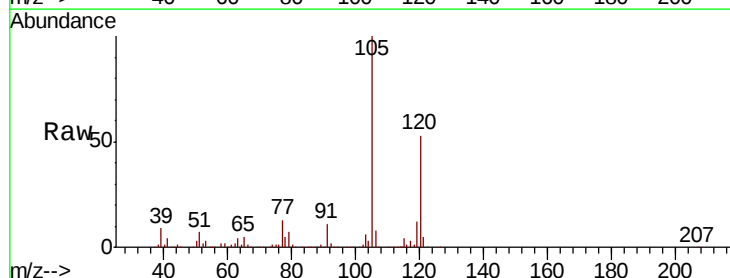
Acq: 13 Nov 2018 19:36

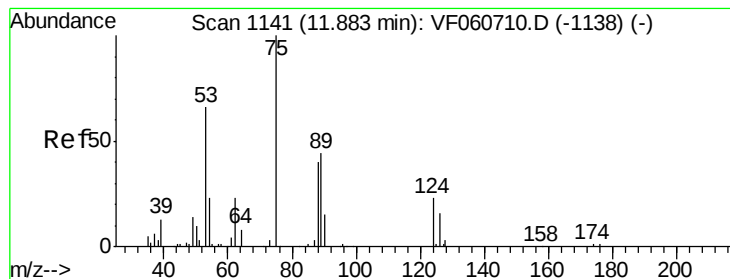
Tgt Ion: 105 Resp: 271340

Ion Ratio Lower Upper

105 100

120 52.8 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 19.154 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

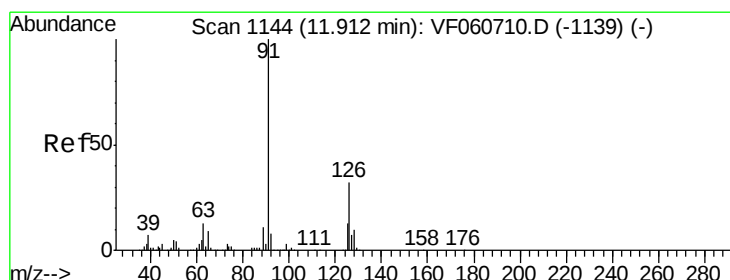
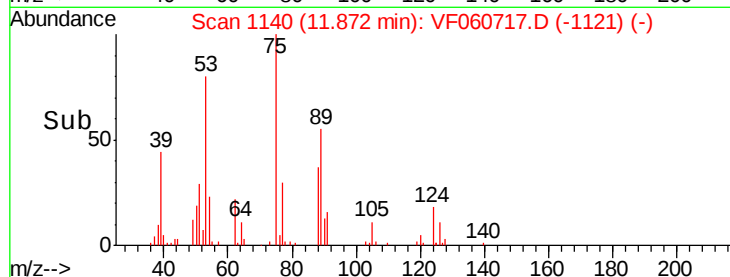
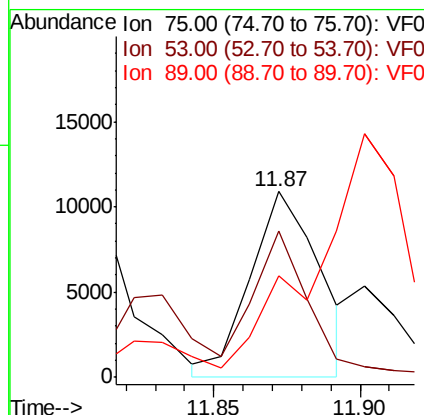
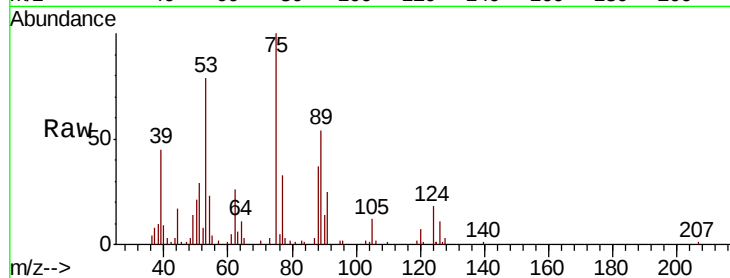
ClientSampleId :

VF1113SBS02

Tot Ion:	75	Resp:	17904
Ion	Ratio	Lower	Upper
75	100		
53	78.9	57.0	85.4
89	54.3	37.8	56.8

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#82

4-Chlorotoluene

Concen: 20.322 ug/l

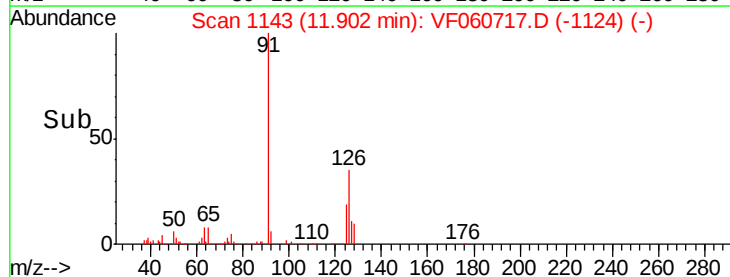
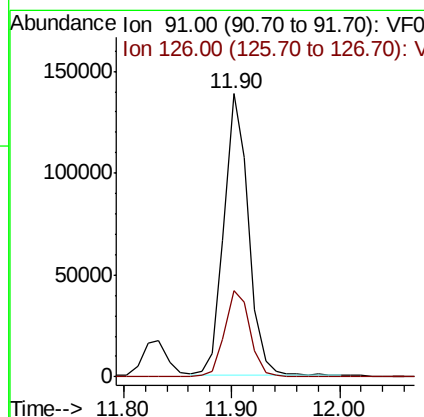
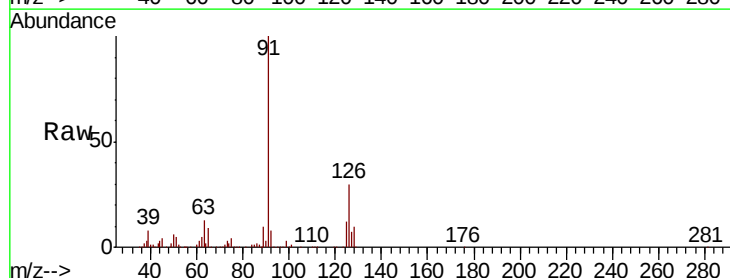
RT: 11.90 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	91	Resp:	218681
Ion	Ratio	Lower	Upper
91	100		
126	30.3	16.0	47.9





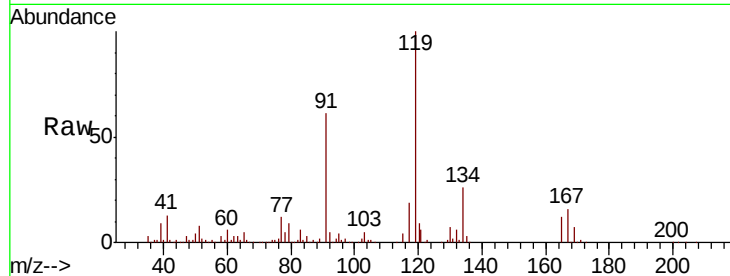
#83
tert-Butylbenzene
Concen: 20.604 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. -0.00 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

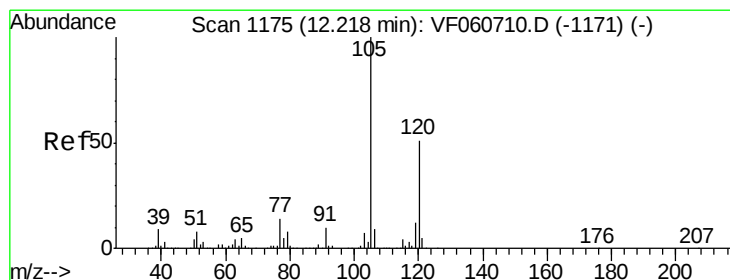
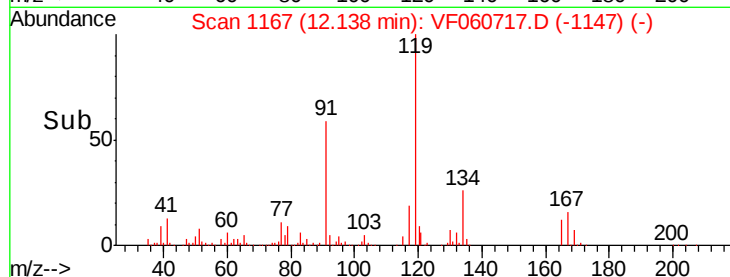
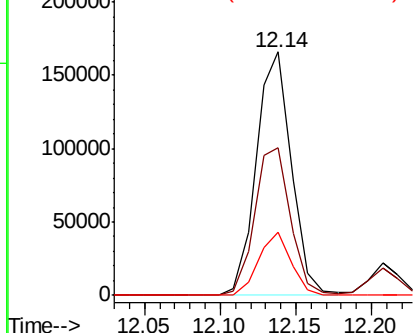
Tot Ion	Ratio	Resp	Lower	Upper
119	100	269137		
91	60.6		31.4	94.3
134	25.7		12.8	38.4

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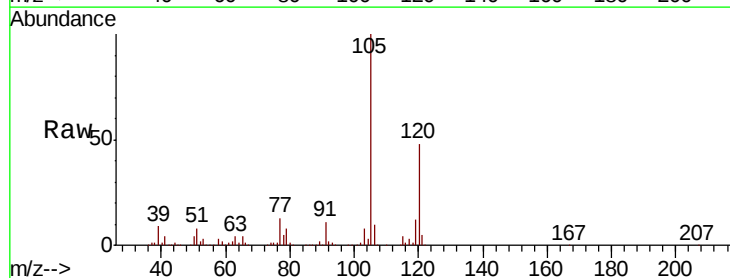


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

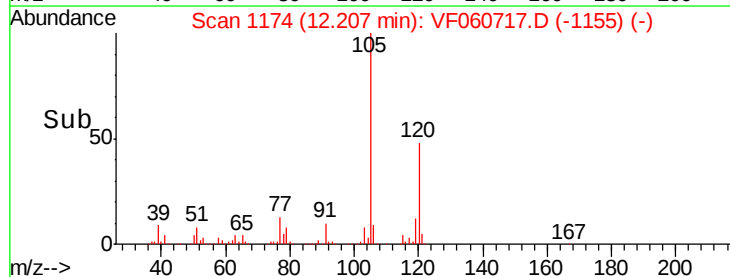
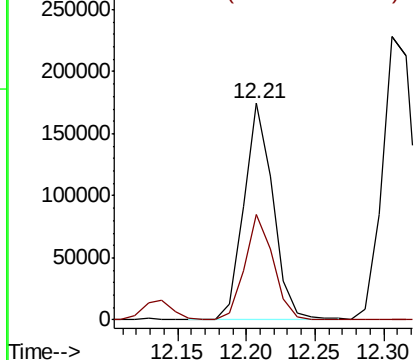


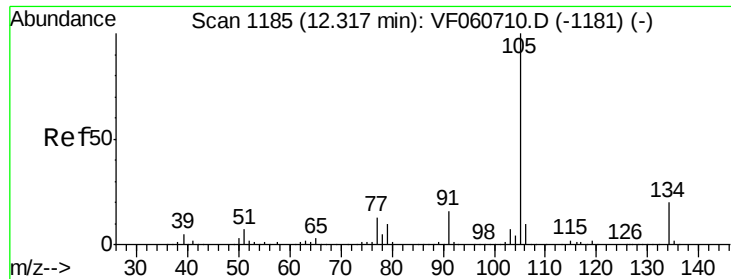
#84
1,2,4-Trimethylbenzene
Concen: 20.219 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	257253		
120	48.4		25.5	76.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.738 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS02

Tot Ion:105 Resp: 367455

Ion Ratio Lower Upper

105 100

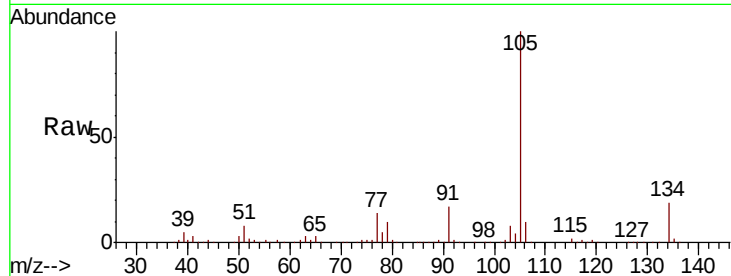
134 18.7 10.1 30.3

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

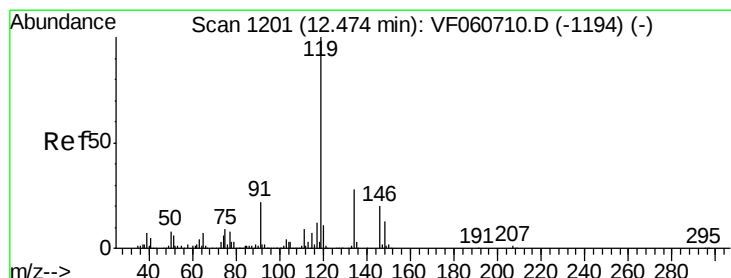
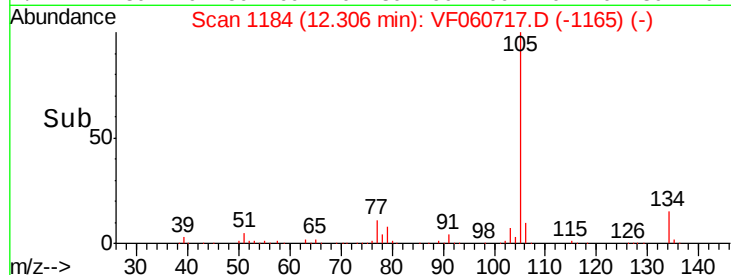
100000

50000

0

12.20 12.30 12.40

Time-->



#86

p-Isopropyltoluene

Concen: 21.301 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

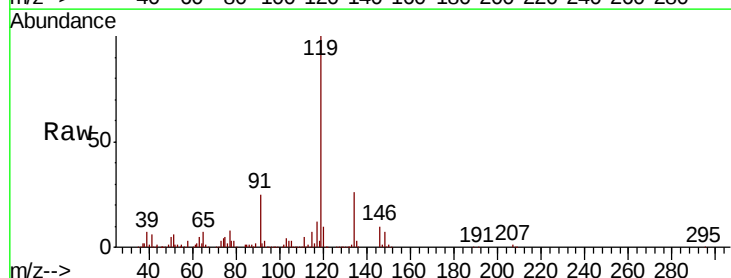
Tgt Ion:119 Resp: 315235

Ion Ratio Lower Upper

119 100

134 26.2 13.9 41.7

91 24.7 11.3 33.9



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

300000

250000

200000

150000

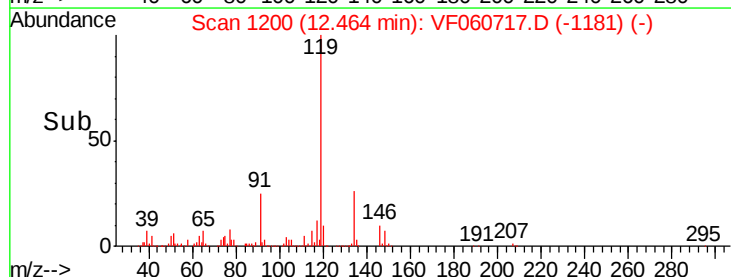
100000

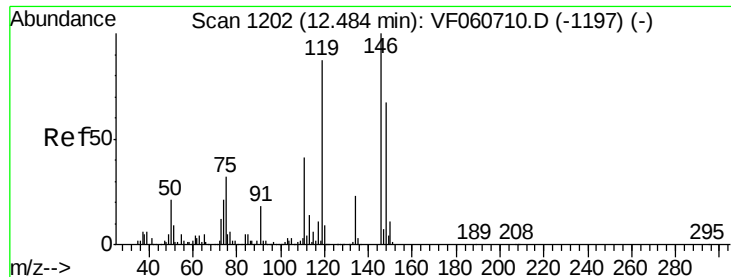
50000

0

12.40 12.60

Time-->





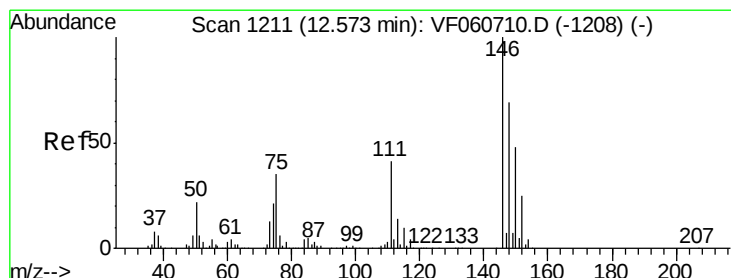
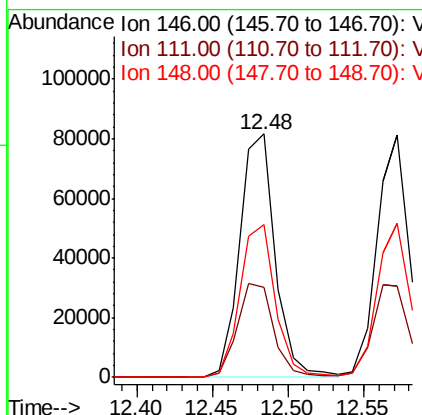
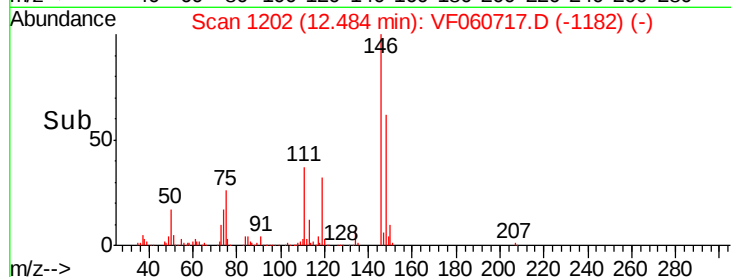
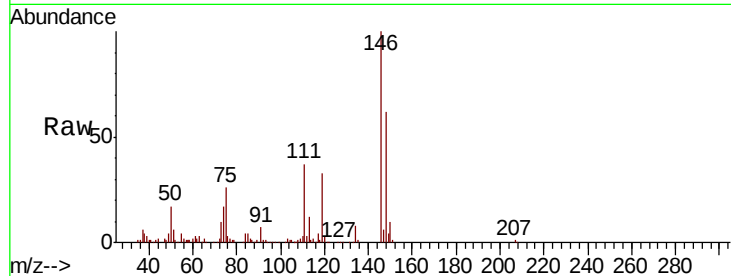
#87
 1,3-Dichlorobenzene
 Concen: 20.691 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	20.3	60.8
148	62.5	33.3	99.9

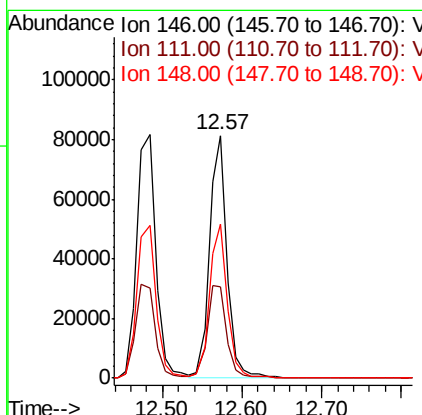
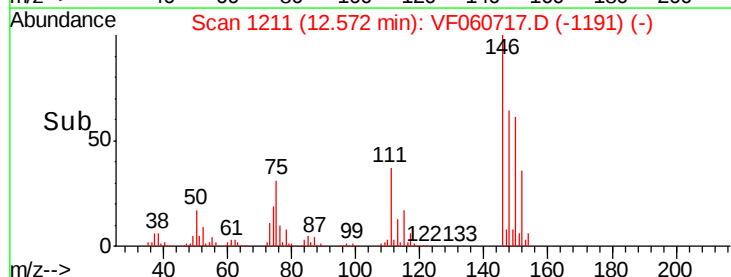
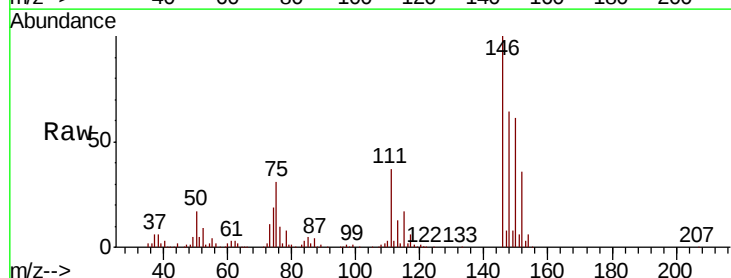
Manual Integrations
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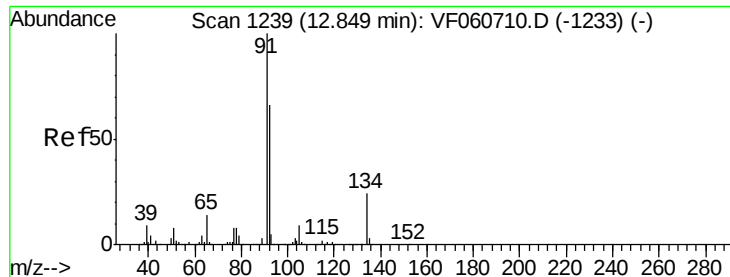
sam
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#88
 1,4-Dichlorobenzene
 Concen: 20.267 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	20.6	61.9
148	63.6	34.7	104.1





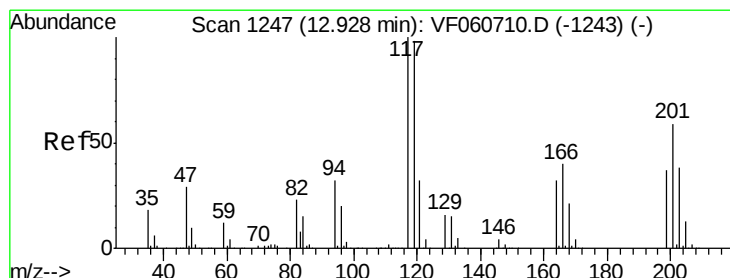
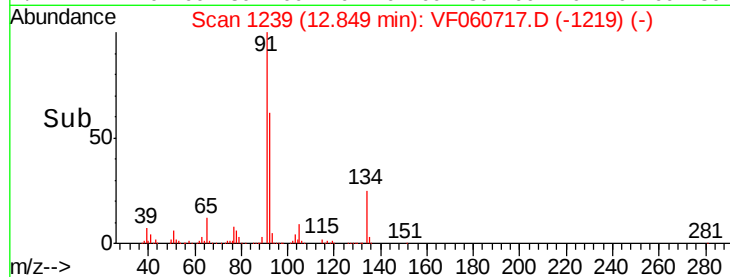
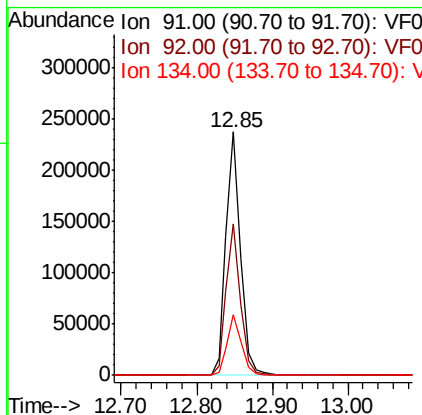
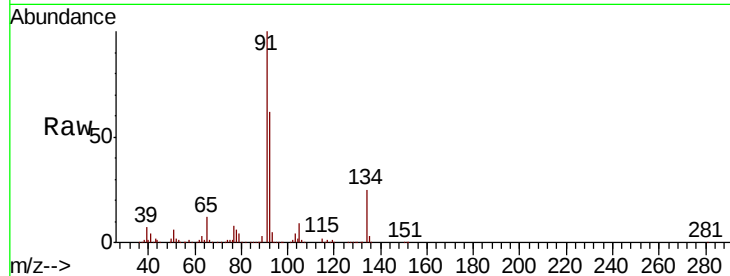
#89
n-Butylbenzene
Concen: 20.999 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.0	33.1	99.2
134	25.1	11.9	35.9

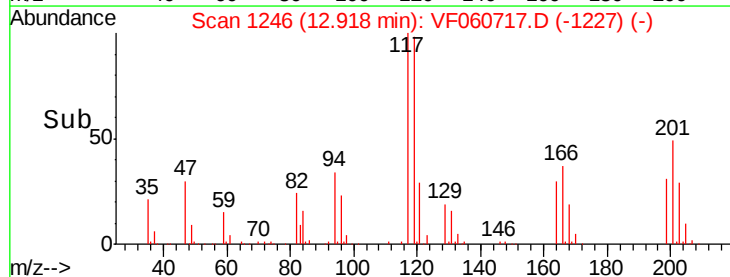
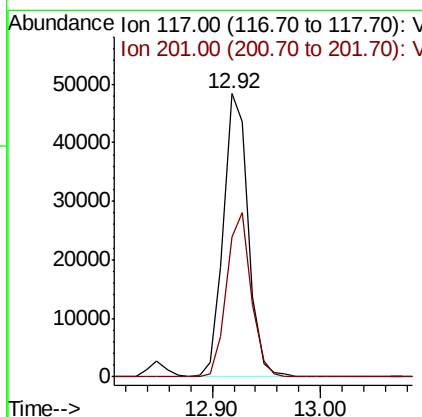
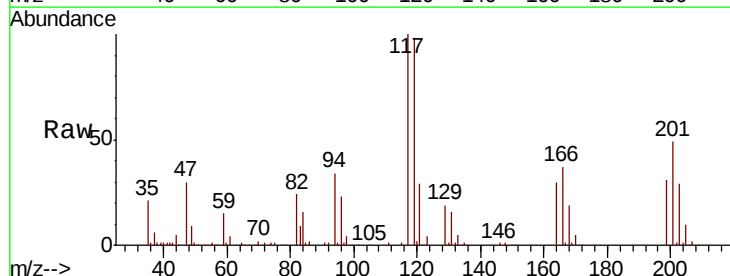
Manual Integrations
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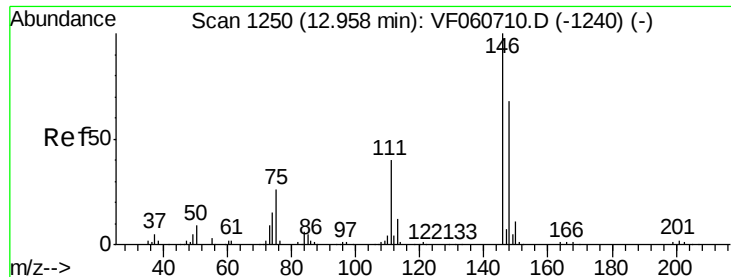
Sam
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#90
Hexachloroethane
Concen: 21.408 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF060717.D
Acq: 13 Nov 2018 19:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	49.4	29.4	88.3





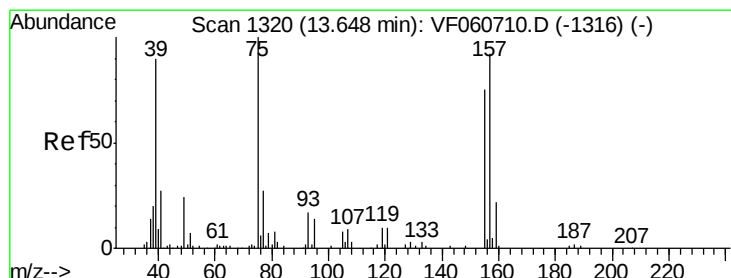
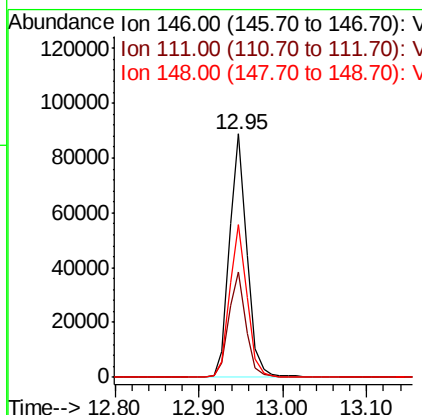
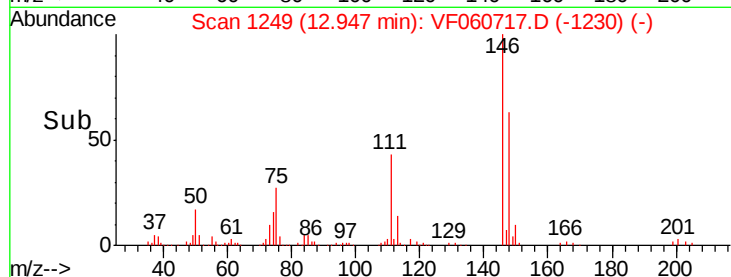
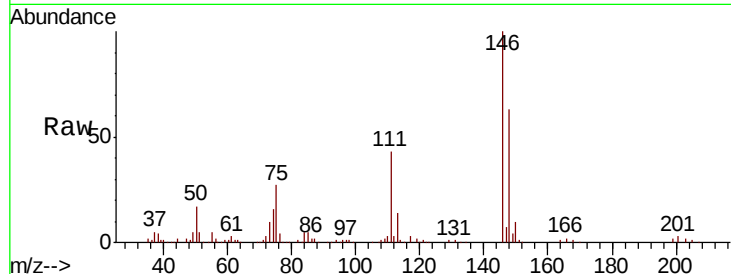
#91
 1,2-Dichlorobenzene
 Concen: 21.214 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.01 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.3	60.8
148	62.7	34.1	102.3

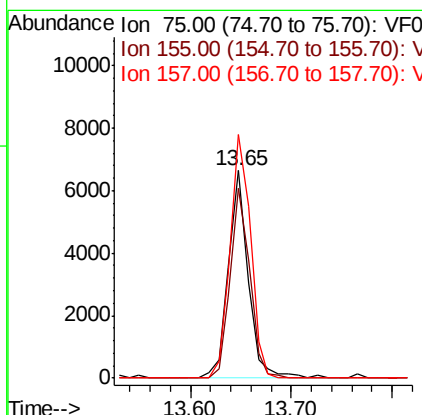
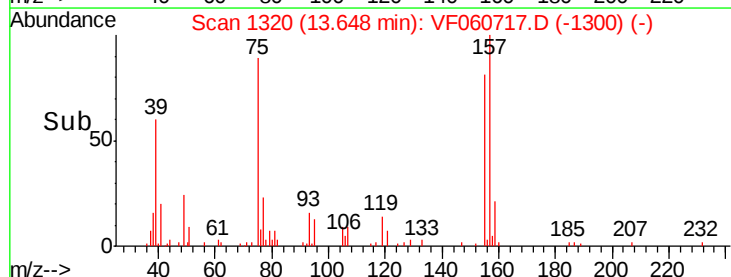
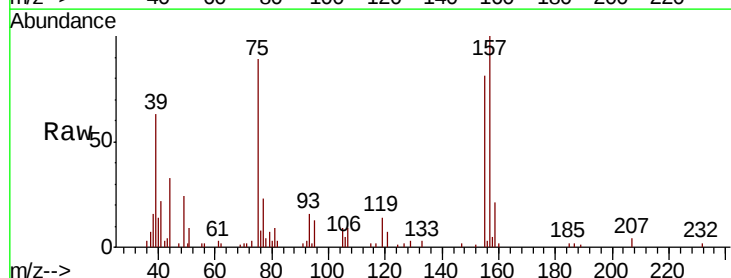
Manual Integrations
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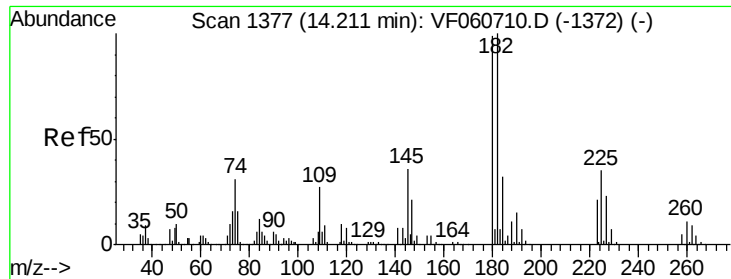
sam
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.847 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.3	37.4	112.2
157	117.4	46.0	138.0





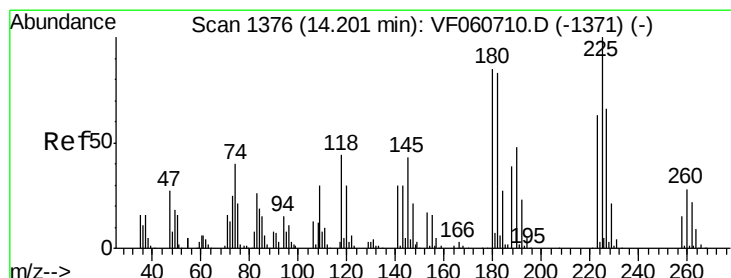
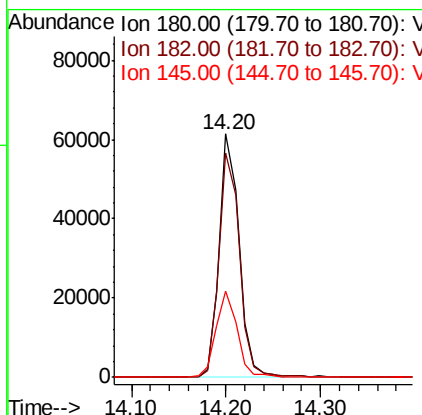
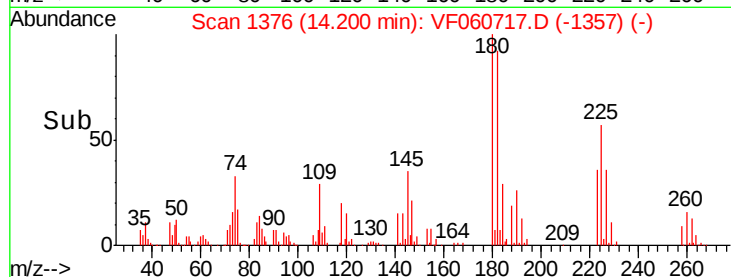
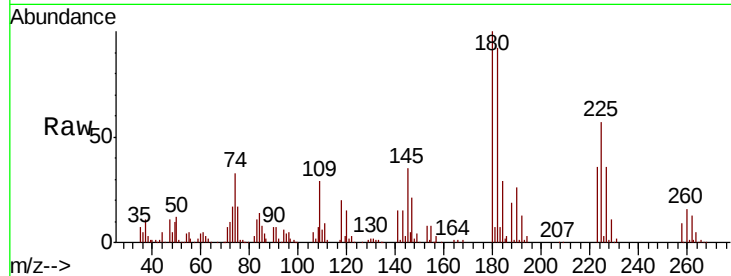
#93
 1,2,4-Trichlorobenzene
 Concen: 20.723 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	92.0	50.3	151.0	
145	35.2	18.3	54.9	

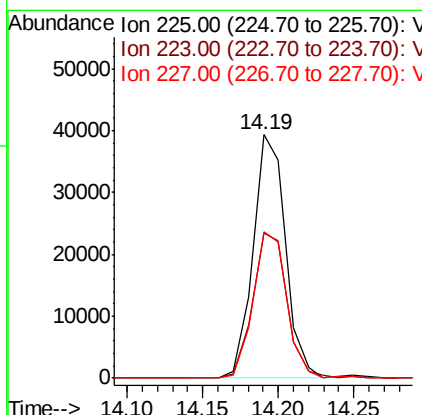
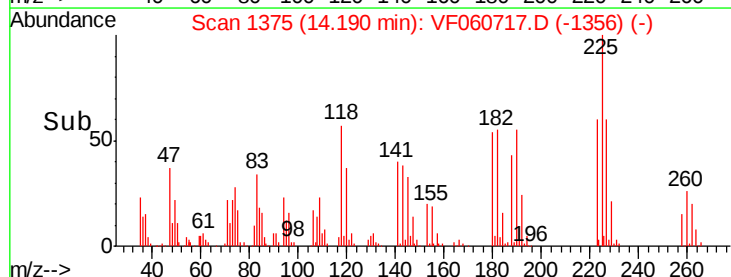
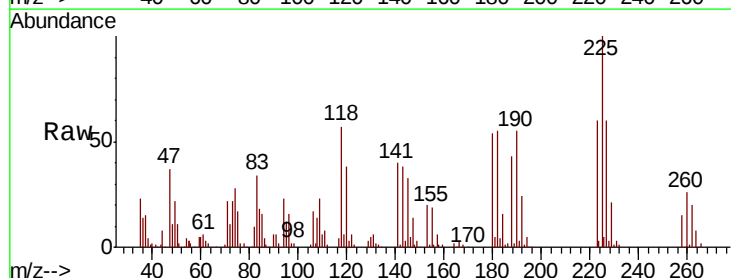
Manual Integrations
 APPROVED

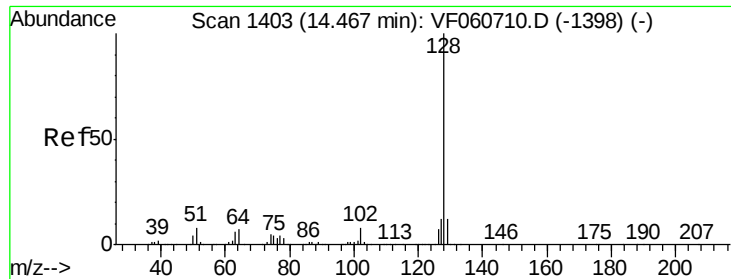
sam
 11/14/2018 11:54:01 AM



#94
 Hexachlorobutadiene
 Concen: 20.676 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF060717.D
 Acq: 13 Nov 2018 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	59.6	31.5	94.5	
227	60.1	33.0	99.0	





#95

Naphthalene

Concen: 20.785 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Instrument :

MSVOA_F

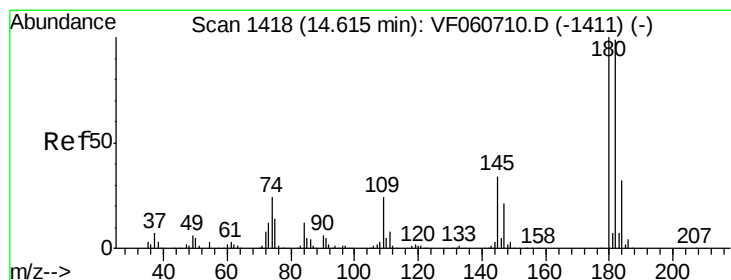
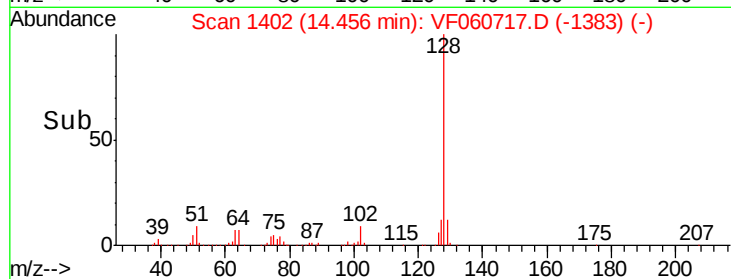
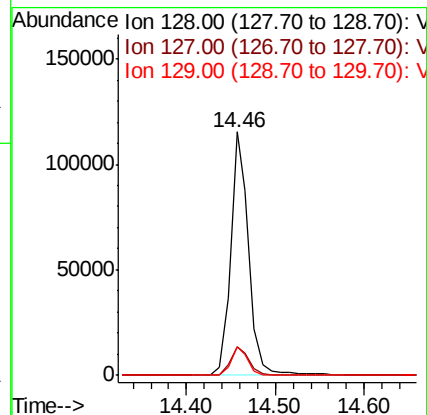
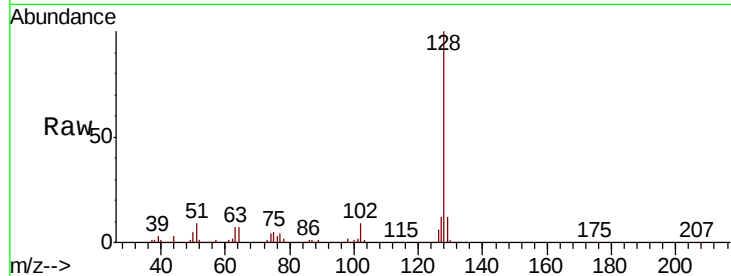
ClientSampleId :

VF1113SBS02

Tot Ion:	128	Resp:	164754
Ion Ratio	Lower	Upper	
128	100		
127	11.9	9.8	14.6
129	11.8	9.3	13.9

Manual Integrations
APPROVED

sam
11/14/2018 11:54:01 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.107 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF060717.D

Acq: 13 Nov 2018 19:36

Tgt Ion:	180	Resp:	80713
Ion Ratio	Lower	Upper	
180	100		
182	95.1	49.6	149.0
145	34.8	16.9	50.7

