

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082818\
 Data File : VF060144.D
 Acq On : 28 Aug 2018 12:17
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Quant Time: Aug 28 14:53:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	158872	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	243294	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	252116	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	159440	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	116342	53.51	ug/l	-0.02
Spiked Amount			Recovery	=	107.02%	
35) Dibromofluoromethane	4.28	113	103434	54.14	ug/l	-0.02
Spiked Amount			Recovery	=	108.28%	
50) Toluene-d8	7.70	98	263468	48.56	ug/l	-0.02
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	11.51	95	148861	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	112523	53.797	ug/l	98
3) Chloromethane	1.07	50	74633	55.371	ug/l	99
4) Vinyl Chloride	1.12	62	61717	47.524	ug/l	91
5) Bromomethane	1.31	94	45110	45.712	ug/l	91
6) Chloroethane	1.39	64	30779	60.125	ug/l	99
7) Trichlorofluoromethane	1.48	101	181901	69.655	ug/l	99
8) Diethyl Ether	1.70	74	22047	47.222	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.86	101	77534	56.562	ug/l	93
10) Methyl Iodide	1.93	142	61745	34.069	ug/l	87
11) Tert butyl alcohol	2.66	59	35149	303.862	ug/l #	83
12) 1,1-Dichloroethene	1.83	96	51784	51.275	ug/l	80
13) Acrolein	2.08	56	17726	250.742	ug/l #	80
14) Allyl chloride	2.18	41	91500	51.014	ug/l	87
15) Acrylonitrile	3.07	53	64370	281.987	ug/l	95
16) Acetone	2.33	43	152549	266.944	ug/l #	91
17) Carbon Disulfide	1.84	76	133669	42.273	ug/l	100
18) Methyl Acetate	2.45	43	46712	47.659	ug/l #	91
19) Methyl tert-butyl Ether	2.53	73	165667	51.200	ug/l	98
20) Methylene Chloride	2.28	84	58083	51.793	ug/l	99
21) trans-1,2-Dichloroethene	2.41	96	53414	47.268	ug/l	93
22) Diisopropyl ether	2.91	45	219238	54.586	ug/l	98
23) Vinyl Acetate	3.32	43	540854	254.193	ug/l	99
24) 1,1-Dichloroethane	3.00	63	168016	67.718	ug/l	99
25) 2-Butanone	4.49	43	177281	238.829	ug/l	93
26) 2,2-Dichloropropane	3.76	77	171103	66.655	ug/l	88
27) cis-1,2-Dichloroethene	3.63	96	82830	51.726	ug/l	99
28) Bromochloromethane	3.89	49	47444	45.291	ug/l	90
29) Tetrahydrofuran	4.23	42	63071	225.047	ug/l	97
30) Chloroform	4.02	83	204702	58.776	ug/l	97
31) Cyclohexane	3.86	56	89545	47.364	ug/l	97
32) 1,1,1-Trichloroethane	4.27	97	187390	62.831	ug/l	99
36) 1,1-Dichloropropene	4.45	75	119280	52.171	ug/l	94
37) Ethyl Acetate	4.28	43	60613	44.329	ug/l #	81
38) Carbon Tetrachloride	4.16	117	164700	62.210	ug/l	99

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

39) Methylcyclohexane	5.61	83	99490	46.409	ug/l #	84
40) Benzene	4.80	78	241680	48.390	ug/l	100
41) Methacrylonitrile	4.90	41	33229	48.045	ug/l #	87
42) 1,2-Dichloroethane	5.11	62	152498	56.944	ug/l	97
43) Isopropyl Acetate	7.10	43	80771	46.933	ug/l	95
44) Trichloroethene	5.66	130	87141	52.778	ug/l	99
45) 1,2-Dichloropropane	6.39	63	72915	51.612	ug/l	96
46) Dibromomethane	6.24	93	60909	55.098	ug/l	97
47) Bromodichloromethane	6.54	83	159919	59.893	ug/l	96
48) Methyl methacrylate	6.86	41	52067	45.721	ug/l	94
49) 1,4-Dioxane	6.84	88	10176	930.821	ug/l	98
51) 4-Methyl-2-Pentanone	8.39	43	370423	249.249	ug/l	98
52) Toluene	7.77	92	184177	58.123	ug/l	96
53) t-1,3-Dichloropropene	8.42	75	132716	54.811	ug/l	96
54) cis-1,3-Dichloropropene	7.45	75	142882	52.872	ug/l	96
55) 1,1,2-Trichloroethane	8.63	97	70255	52.132	ug/l	98
56) Ethyl methacrylate	8.76	69	84384	51.731	ug/l	91
57) 1,3-Dichloropropane	8.99	76	124014	52.356	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.77	63	37062	286.240	ug/l	100
59) 2-Hexanone	9.62	43	309337	257.173	ug/l	99
60) Dibromochloromethane	8.85	129	111094	55.844	ug/l	94
61) 1,2-Dibromoethane	9.13	107	78968	49.896	ug/l	96
64) Tetrachloroethene	8.30	164	89329	52.597	ug/l	99
65) Chlorobenzene	9.94	112	253431	53.234	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.07	131	98195	54.382	ug/l	97
67) Ethyl Benzene	10.04	91	460972	56.117	ug/l	99
68) m/p-Xylenes	10.26	106	320148	121.521	ug/l	97
69) o-Xylene	10.83	106	179371	55.735	ug/l	99
70) Styrene	10.90	104	270143	54.712	ug/l	95
71) Bromoform	10.89	173	69847	55.444	ug/l	99
73) Isopropylbenzene	11.22	105	543901	56.672	ug/l	97
74) N-amyl acetate	11.46	43	150332	50.394	ug/l #	96
75) 1,1,2,2-Tetrachloroethane	11.78	83	99872	47.649	ug/l	99
76) 1,2,3-Trichloropropane	11.88	75	77433	47.638	ug/l	98
77) Bromobenzene	11.60	156	134167	51.404	ug/l	99
78) n-propylbenzene	11.68	91	638433	53.897	ug/l	99
79) 2-Chlorotoluene	11.81	91	375958	53.975	ug/l	100
80) 1,3,5-Trimethylbenzene	11.91	105	448488	53.638	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.95	75	49727	66.864	ug/l	94
82) 4-Chlorotoluene	11.99	91	417693	55.234	ug/l	98
83) tert-Butylbenzene	12.22	119	455031	55.797	ug/l	95
84) 1,2,4-Trimethylbenzene	12.29	105	463919	52.189	ug/l	97
85) sec-Butylbenzene	12.38	105	604286	53.226	ug/l	98
86) p-Isopropyltoluene	12.54	119	523494	55.579	ug/l	95
87) 1,3-Dichlorobenzene	12.55	146	246144	51.005	ug/l	98
88) 1,4-Dichlorobenzene	12.64	146	254778	53.123	ug/l	97
89) n-Butylbenzene	12.92	91	524588	57.326	ug/l	98
90) Hexachloroethane	12.99	117	114453	54.075	ug/l	98
91) 1,2-Dichlorobenzene	13.01	146	239517	51.607	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.71	75	23252	54.286	ug/l	96

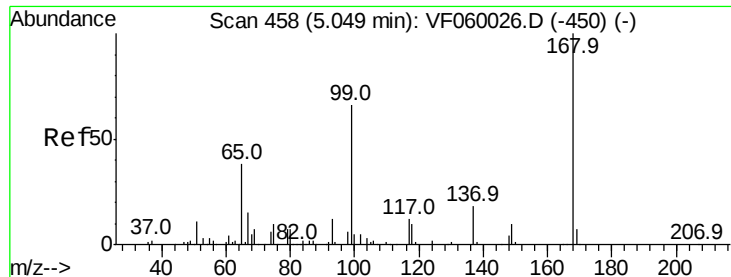
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF082818\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	184895	54.099	ug/l	97
94) Hexachlorobutadiene	14.26	225	118648	55.776	ug/l	99
95) Naphthalene	14.52	128	285085	48.164	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	173691	53.267	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

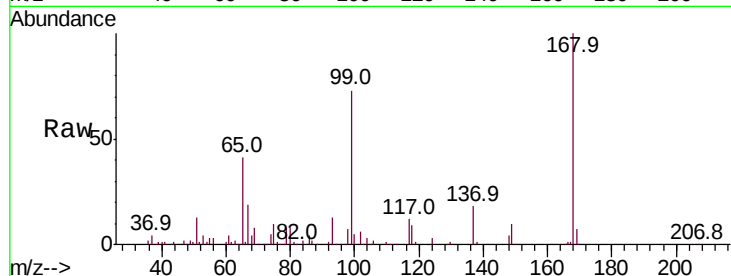
VSTDCCC050

Tot Ion:168 Resp: 158872

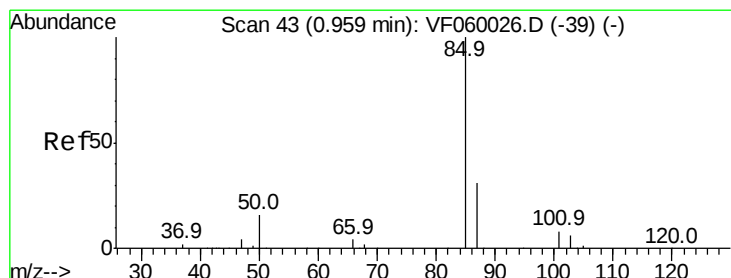
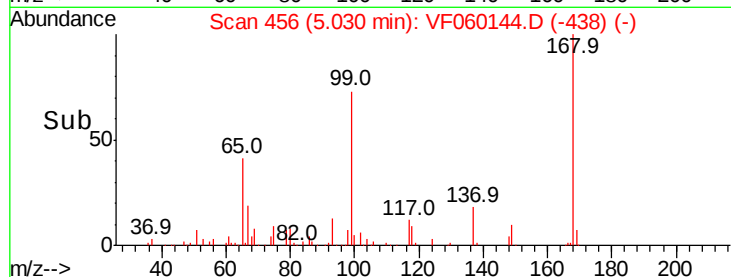
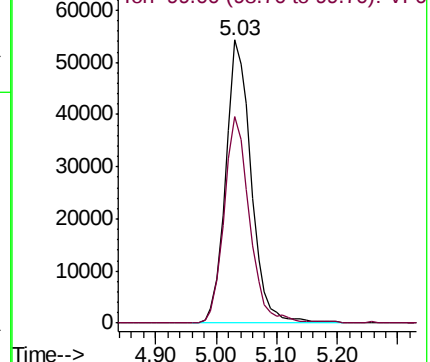
Ion Ratio Lower Upper

168 100

99 72.8 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 53.797 ug/l

RT: 0.96 min Scan# 43

Delta R.T. 0.00 min

Lab File: VF060144.D

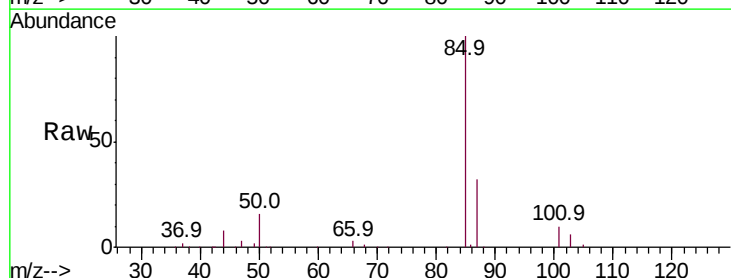
Acq: 28 Aug 2018 12:17

Tgt Ion: 85 Resp: 112523

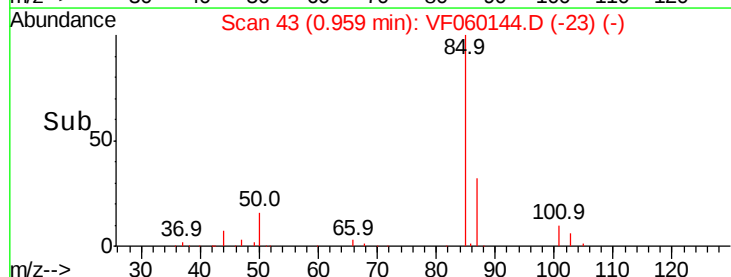
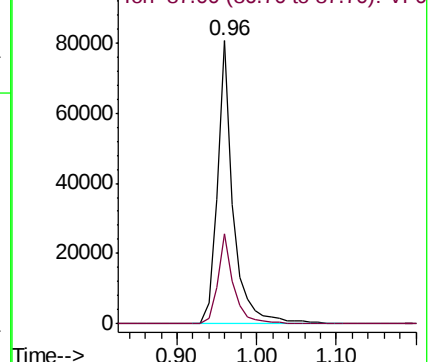
Ion Ratio Lower Upper

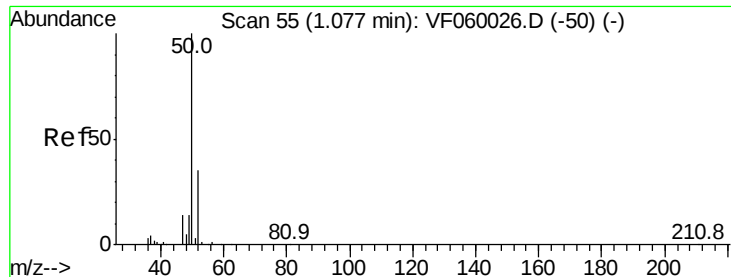
85 100

87 31.9 15.3 45.9



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 55.371 ug/l

RT: 1.07 min Scan# 54

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

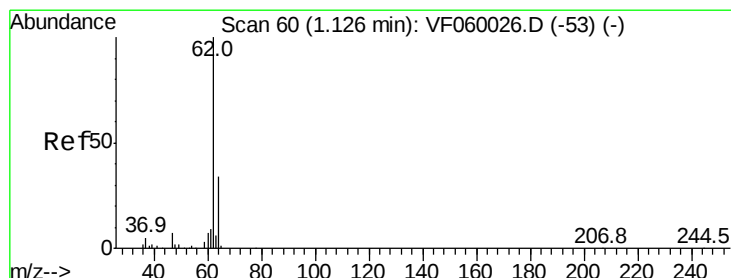
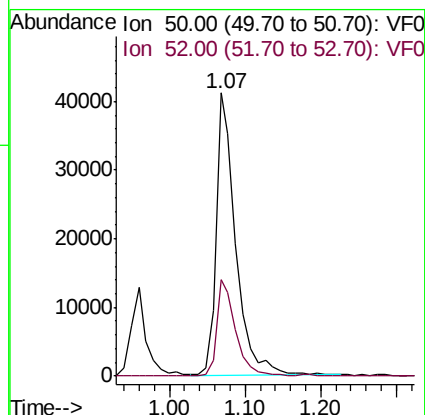
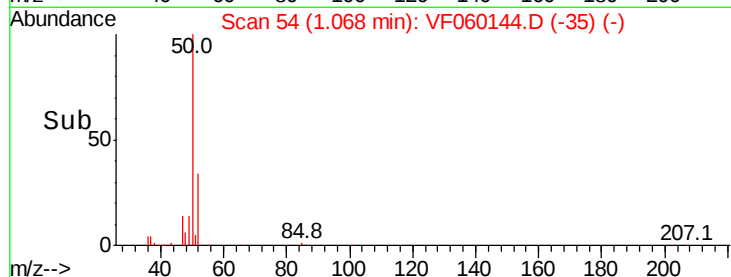
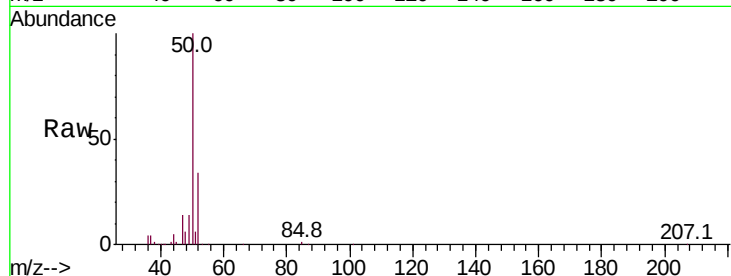
VSTDCCC050

Tot Ion: 50 Resp: 74633

Ion Ratio Lower Upper

50 100

52 33.9 27.6 41.4



#4

Vinyl Chloride

Concen: 47.524 ug/l

RT: 1.12 min Scan# 59

Delta R.T. -0.01 min

Lab File: VF060144.D

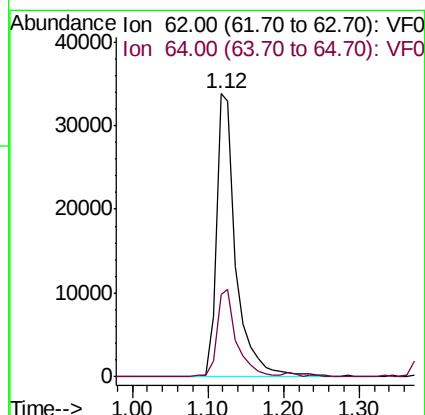
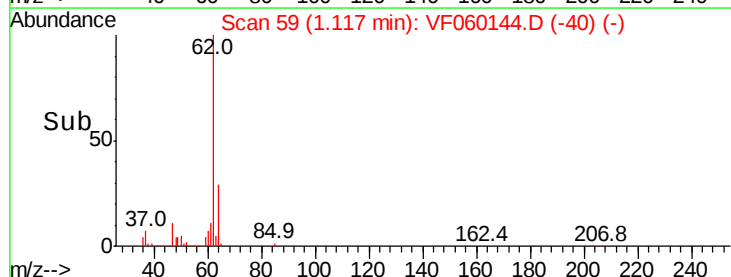
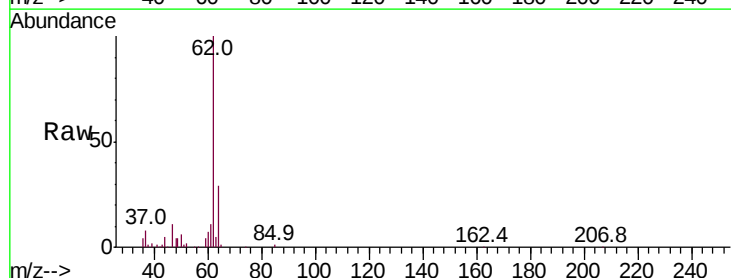
Acq: 28 Aug 2018 12:17

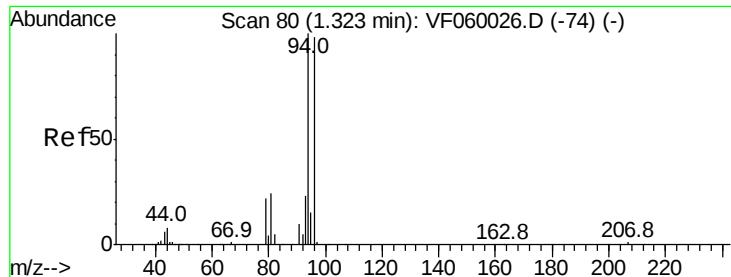
Tgt Ion: 62 Resp: 61717

Ion Ratio Lower Upper

62 100

64 29.3 27.4 41.2





#5

Bromomethane

Concen: 45.712 ug/l

RT: 1.31 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

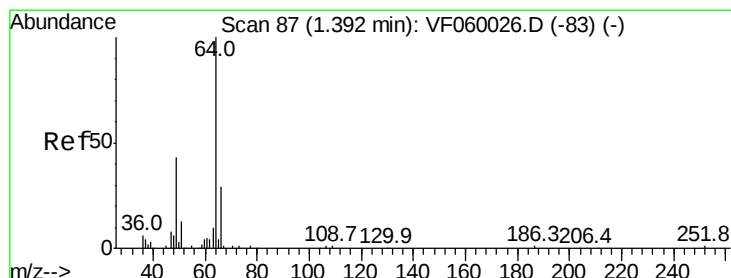
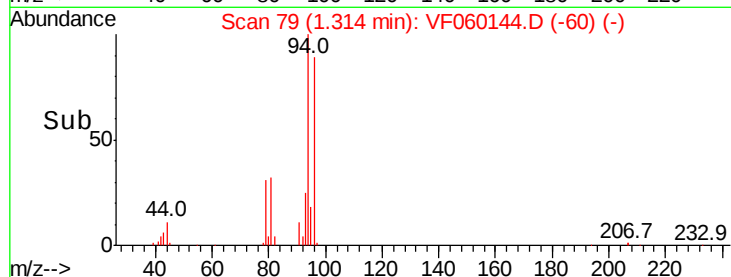
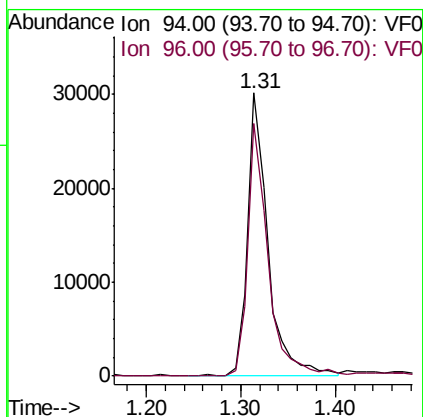
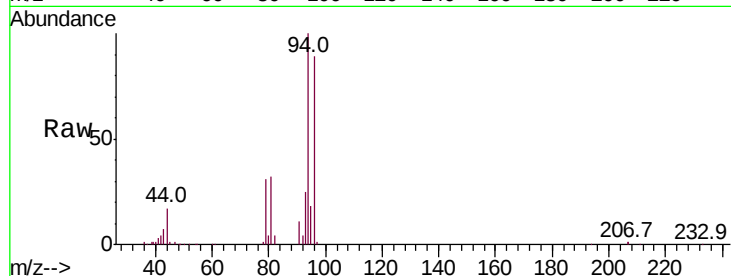
VSTDCCC050

Tot Ion: 94 Resp: 45110

Ion Ratio Lower Upper

94 100

96 89.4 78.6 118.0



#6

Chloroethane

Concen: 60.125 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF060144.D

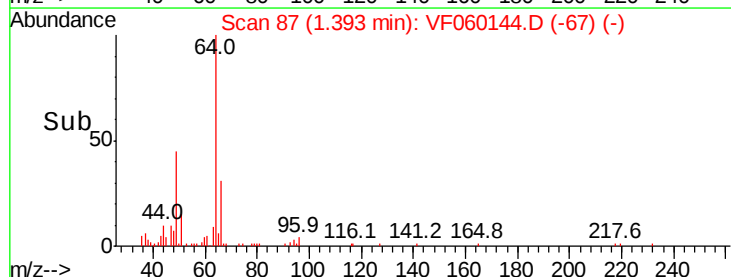
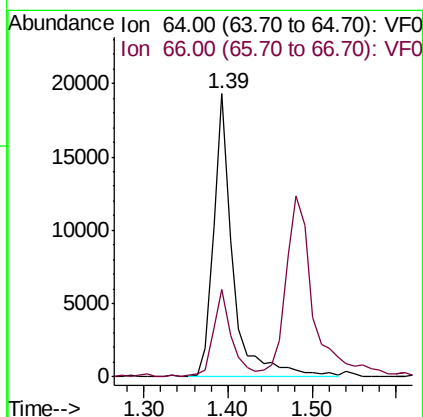
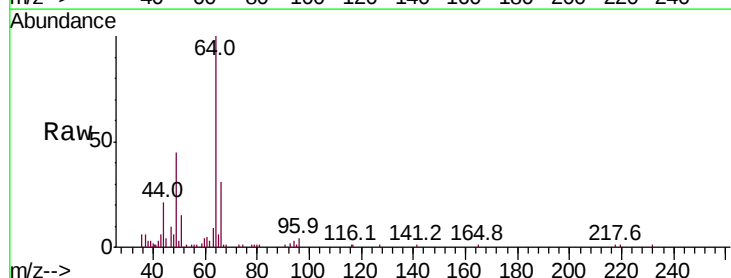
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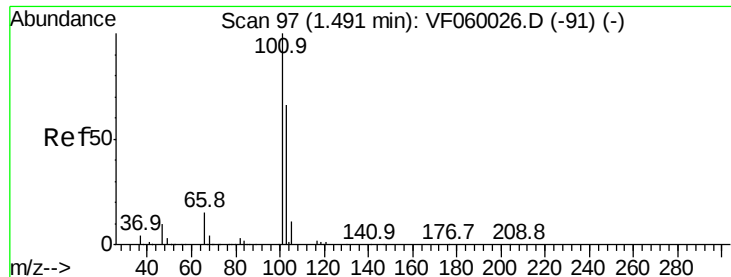
Tgt Ion: 64 Resp: 30779

Ion Ratio Lower Upper

64 100

66 30.7 24.1 36.1



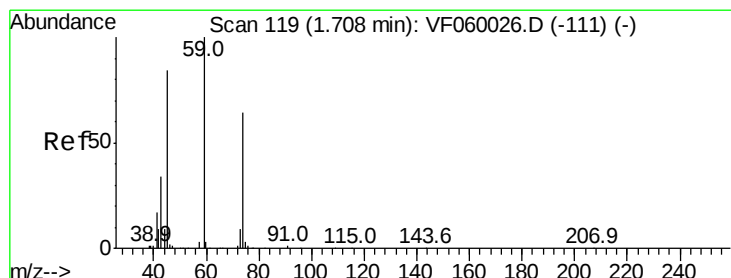
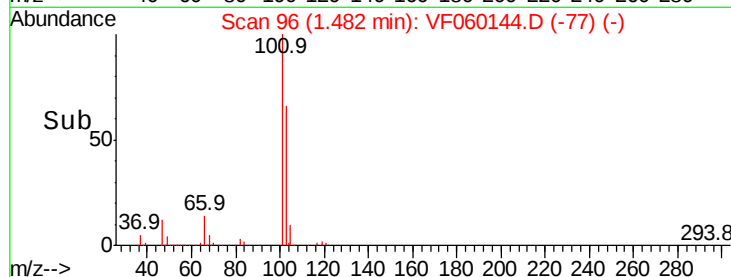
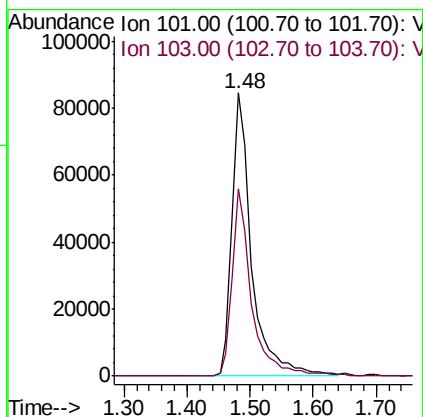
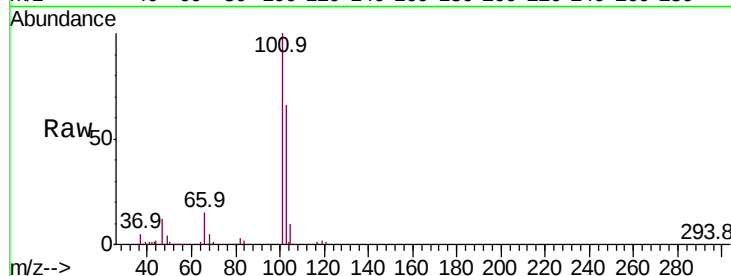


#7

Trichlorofluoromethane
 Concen: 69.655 ug/l
 RT: 1.48 min Scan# 96
 Delta R.T. -0.01 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

Instrument :
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 ClientSampleId :
 VSTDCCC050

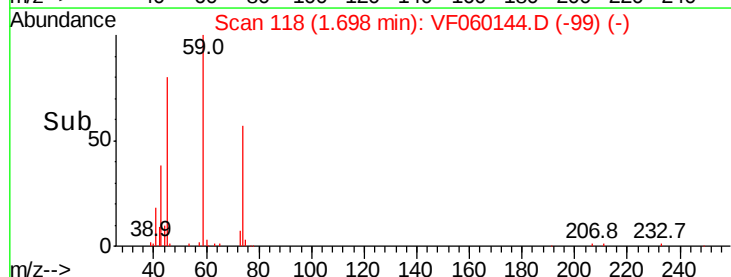
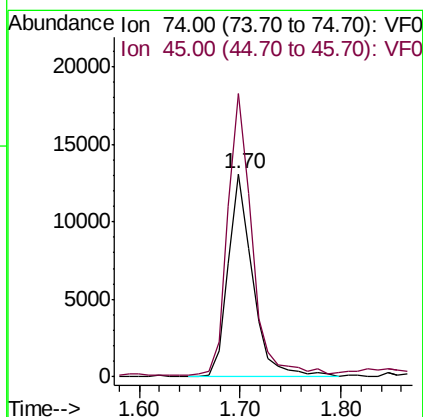
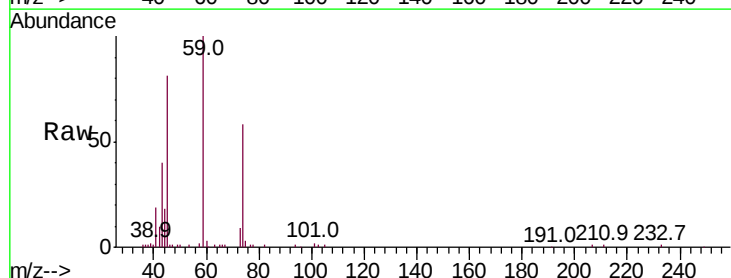
Tot Ion:101 Resp: 181901
 Ion Ratio Lower Upper
 101 100
 103 66.2 52.5 78.7

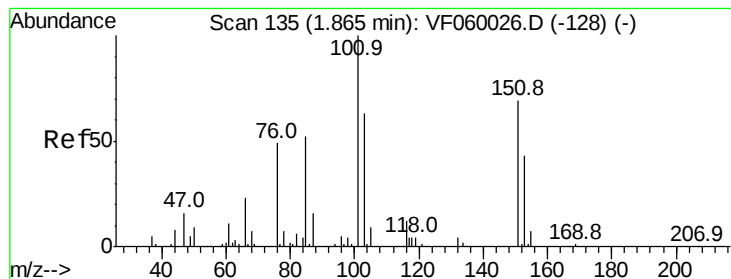


#8

Diethyl Ether
 Concen: 47.222 ug/l
 RT: 1.70 min Scan# 118
 Delta R.T. -0.01 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

Tgt Ion: 74 Resp: 22047
 Ion Ratio Lower Upper
 74 100
 45 139.5 66.0 198.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 56.562 ug/l

RT: 1.86 min Scan# 134

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

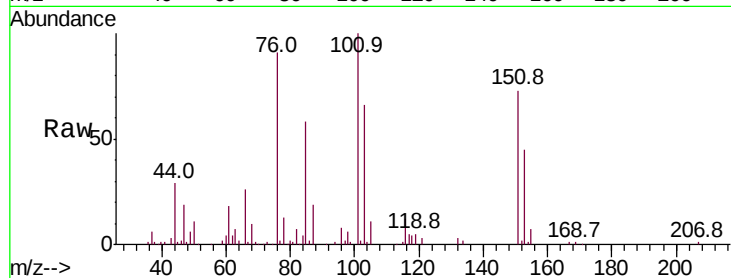
Tot Ion:101 Resp: 77534

Ion Ratio Lower Upper

101 100

85 58.0 41.5 62.3

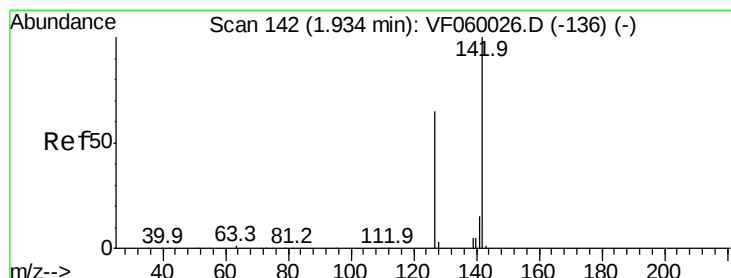
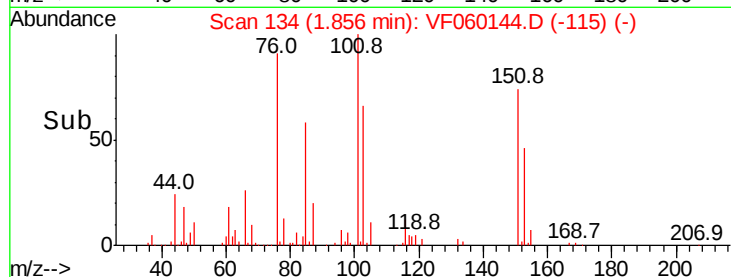
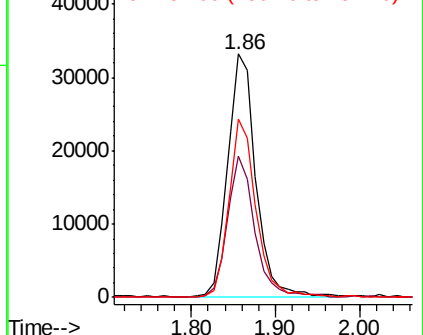
151 73.0 55.2 82.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 34.069 ug/l

RT: 1.93 min Scan# 141

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

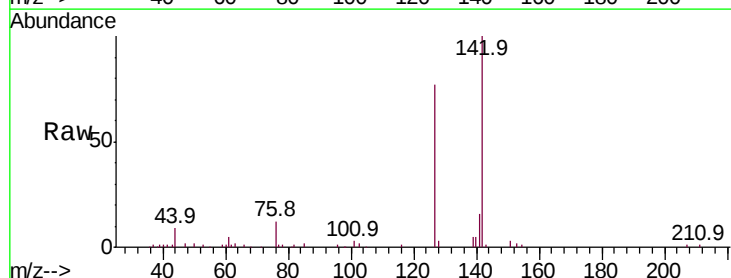
Tgt Ion:142 Resp: 61745

Ion Ratio Lower Upper

142 100

127 76.8 51.8 77.6

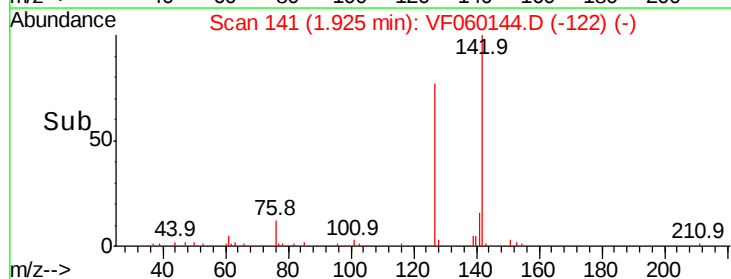
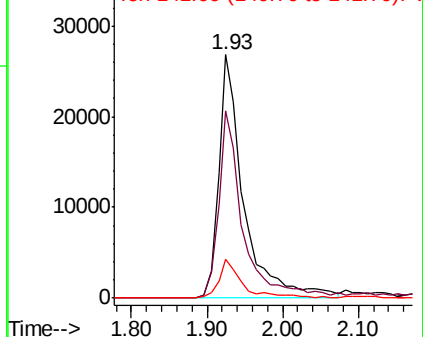
141 15.7 11.9 17.9

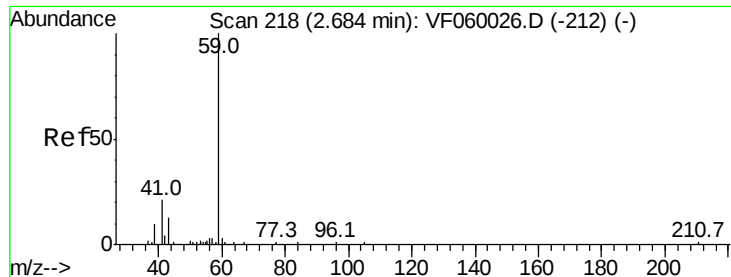


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



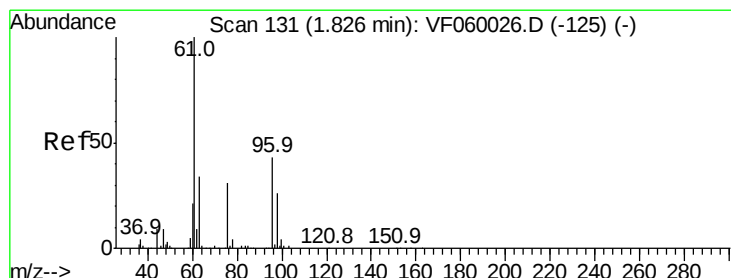
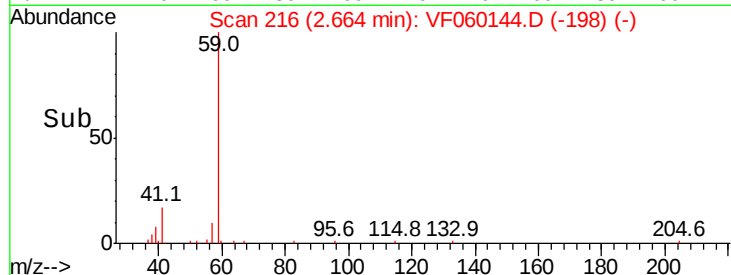
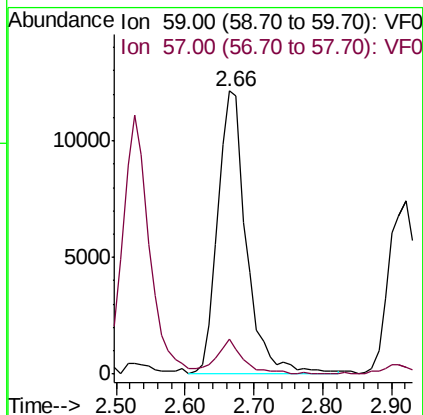
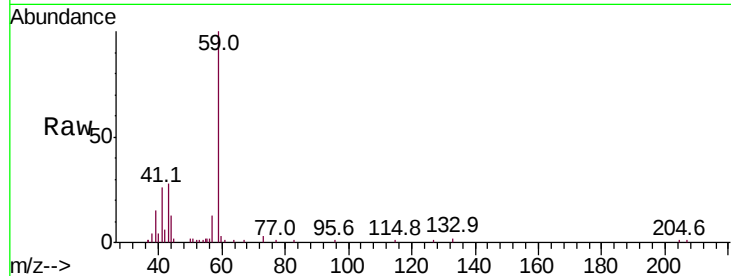


#11

Tert butyl alcohol
Concen: 303.862 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.02 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

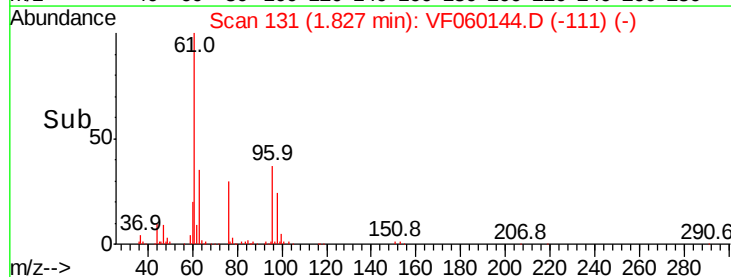
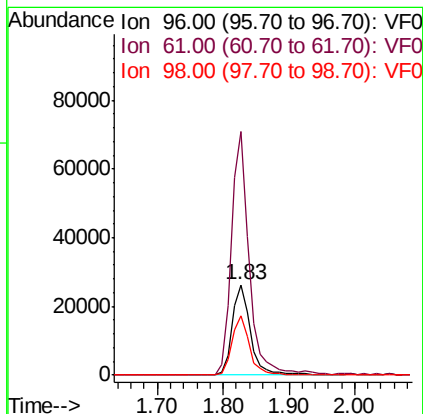
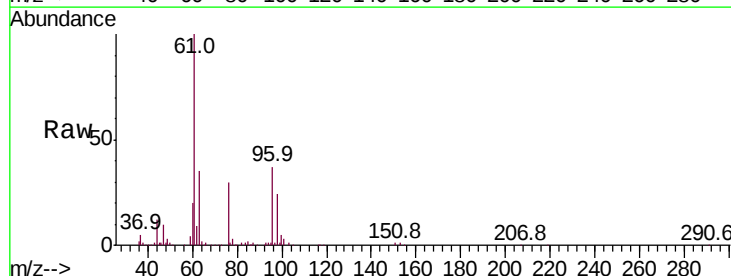
Tot Ion: 59 Resp: 35149
Ion Ratio Lower Upper
59 100
57 12.6 5.4 8.2#

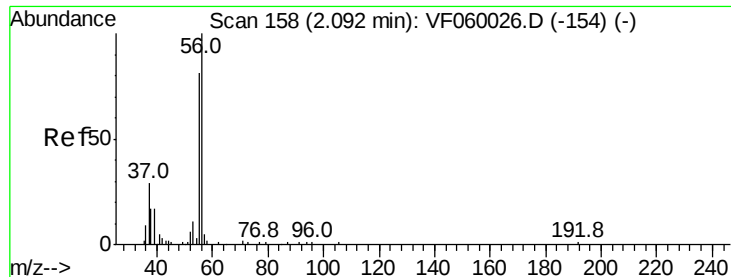


#12

1,1-Dichloroethene
Concen: 51.275 ug/l
RT: 1.83 min Scan# 131
Delta R.T. 0.00 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Tgt Ion: 96 Resp: 51784
Ion Ratio Lower Upper
96 100
61 269.3 185.0 277.6
98 65.6 47.8 71.8





#13

Acrolein

Concen: 250.742 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

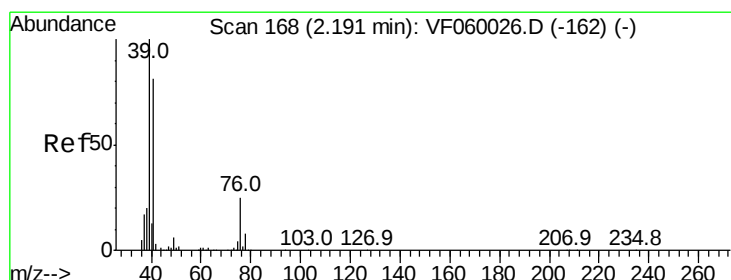
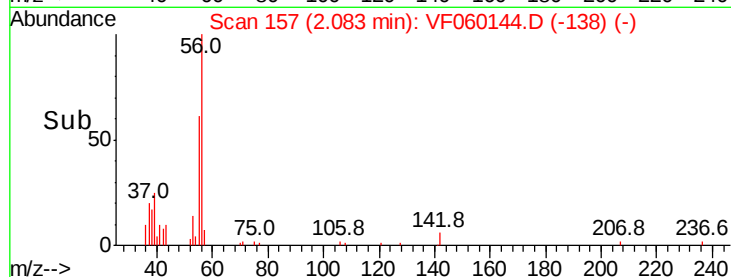
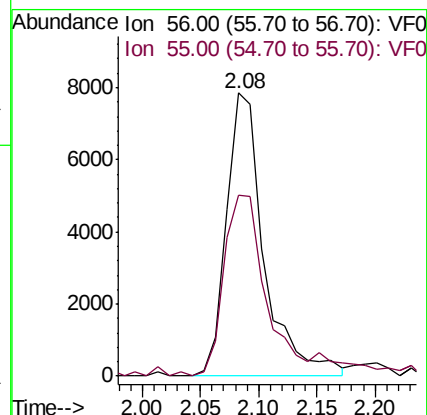
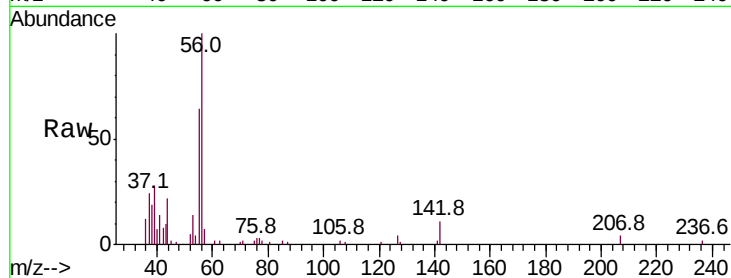
VSTDCCC050

Tot Ion: 56 Resp: 17726

Ion Ratio Lower Upper

56 100

55 63.8 65.6 98.4#



#14

Allyl chloride

Concen: 51.014 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

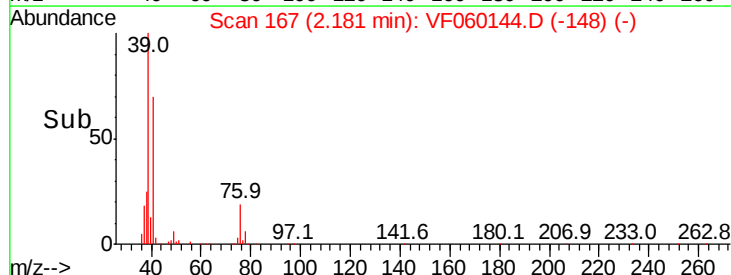
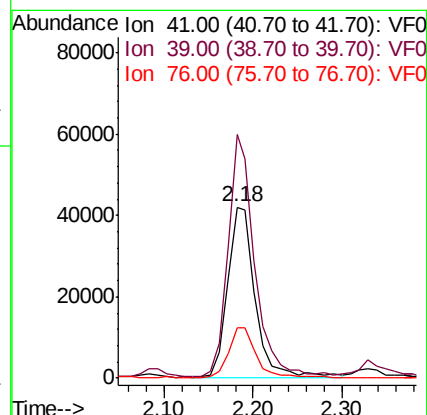
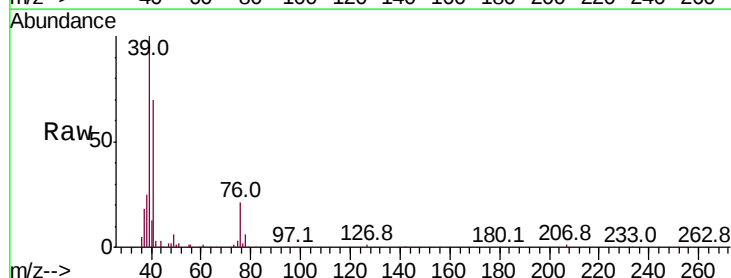
Tgt Ion: 41 Resp: 91500

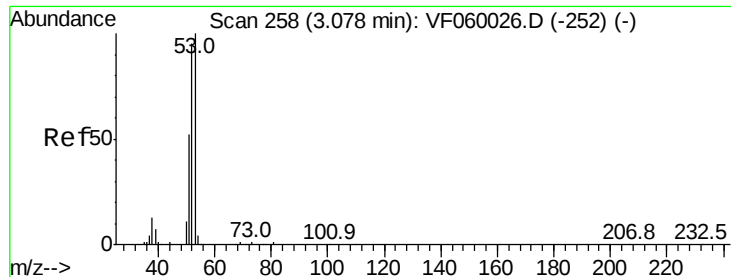
Ion Ratio Lower Upper

41 100

39 142.1 99.3 148.9

76 29.2 24.3 36.5





#15

Acrylonitrile

Concen: 281.987 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

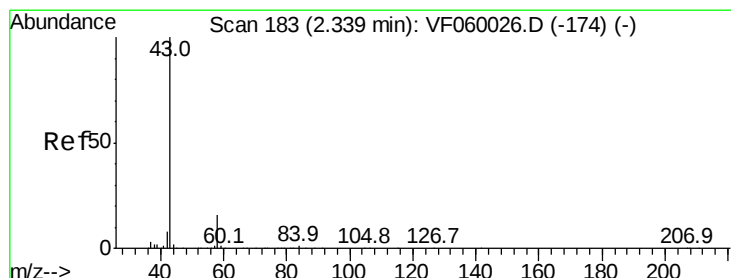
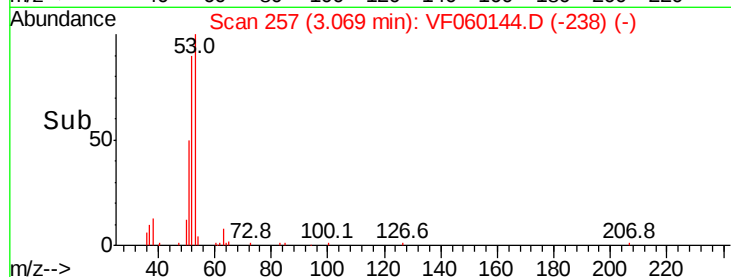
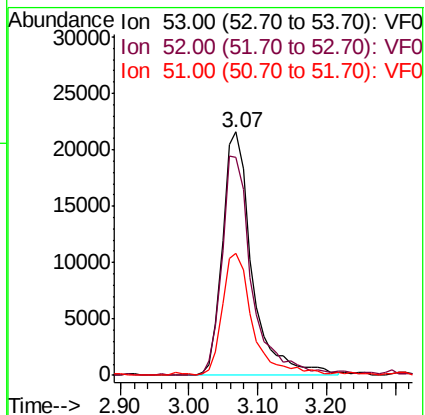
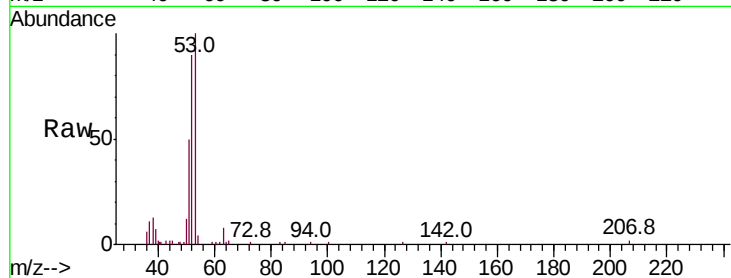
MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 64370

Ion	Ratio	Lower	Upper
53	100		
52	89.8	75.8	113.8
51	50.2	42.1	63.1



#16

Acetone

Concen: 266.944 ug/l

RT: 2.33 min Scan# 182

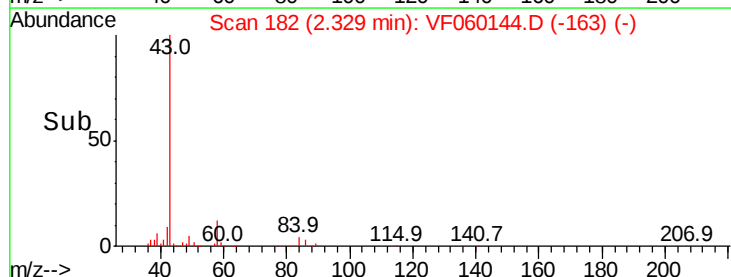
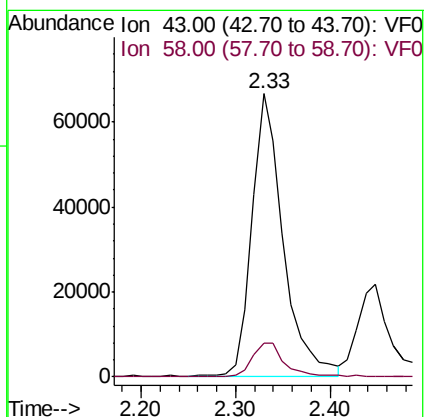
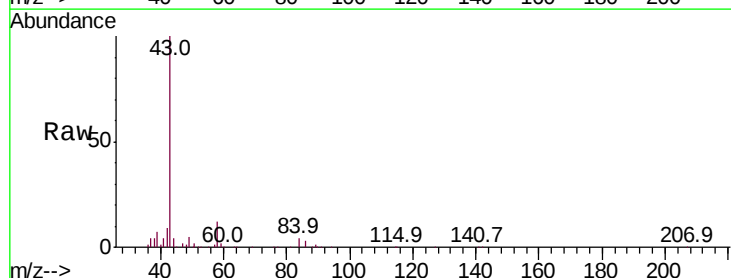
Delta R.T. -0.01 min

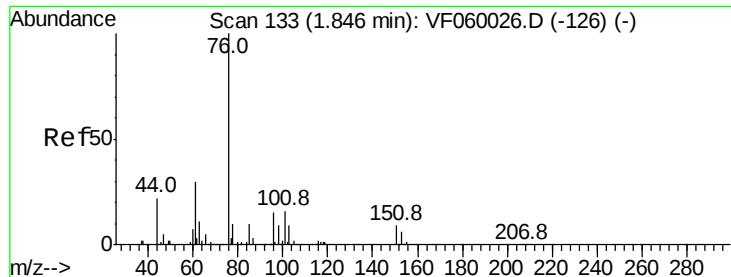
Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Tgt Ion: 43 Resp: 152549

Ion	Ratio	Lower	Upper
43	100		
58	12.2	12.6	19.0#





#17

Carbon Disulfide

Concen: 42.273 ug/l

RT: 1.84 min Scan# 132

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

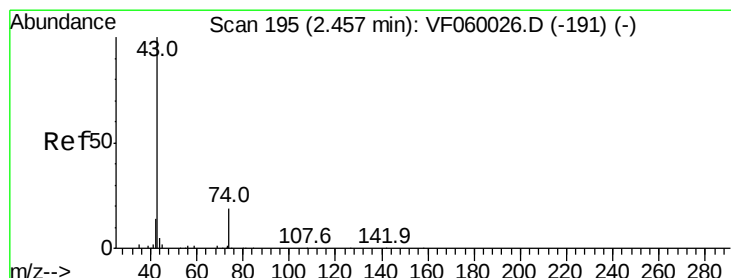
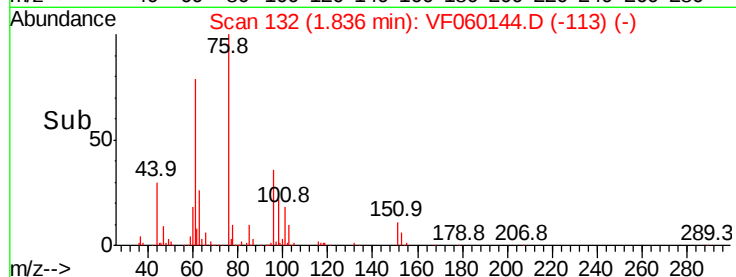
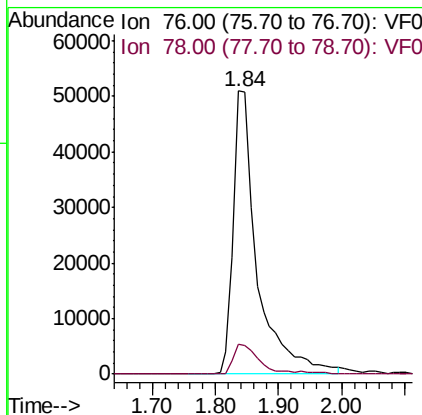
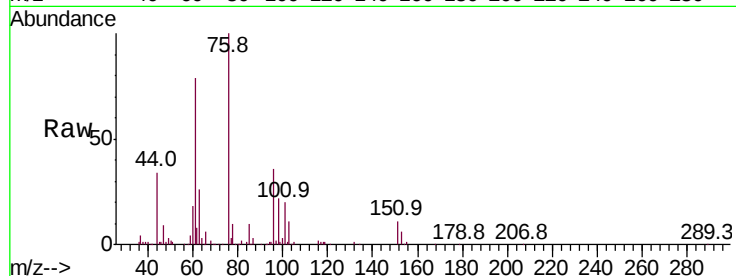
VSTDCCC050

Tot Ion: 76 Resp: 133669

Ion Ratio Lower Upper

76 100

78 10.4 8.4 12.6



#18

Methyl Acetate

Concen: 47.659 ug/l

RT: 2.45 min Scan# 194

Delta R.T. -0.01 min

Lab File: VF060144.D

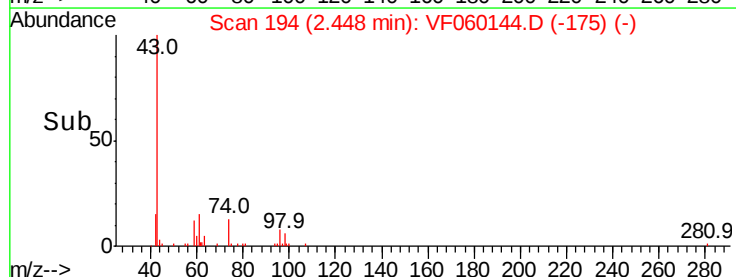
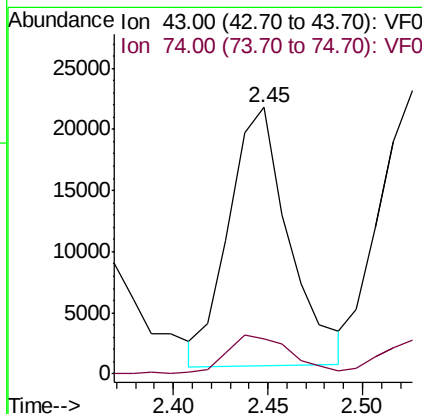
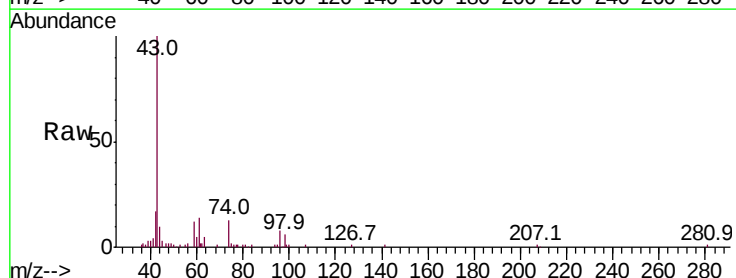
Acq: 28 Aug 2018 12:17

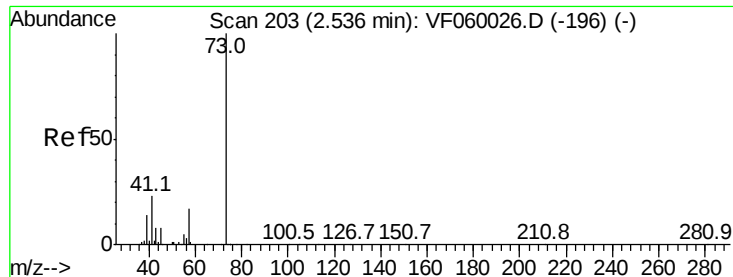
Tgt Ion: 43 Resp: 46712

Ion Ratio Lower Upper

43 100

74 13.3 13.8 20.6#



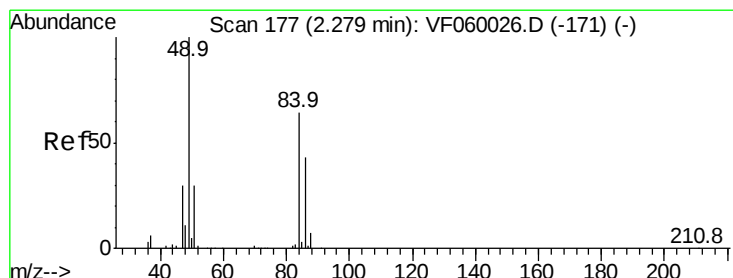
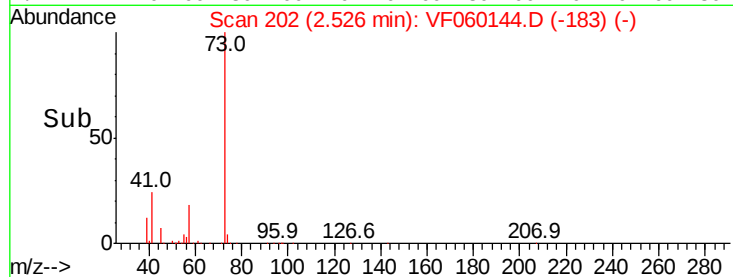
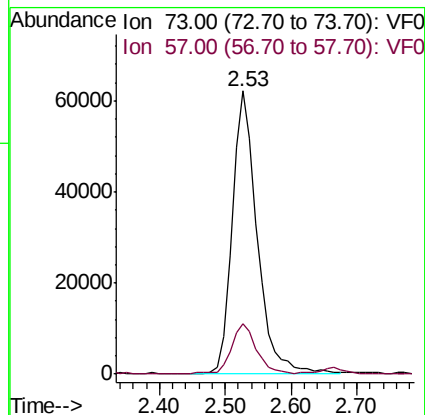
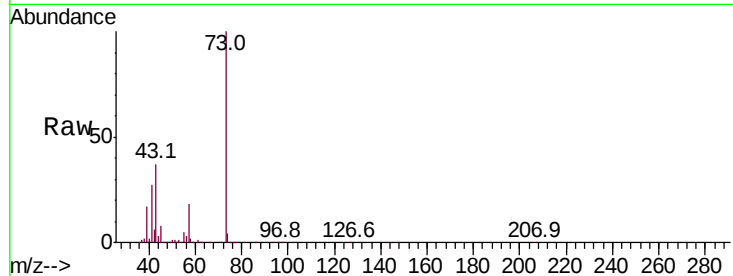


#19

Methyl tert-butyl Ether
 Concen: 51.200 ug/l
 RT: 2.53 min Scan# 202
 Delta R.T. -0.01 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

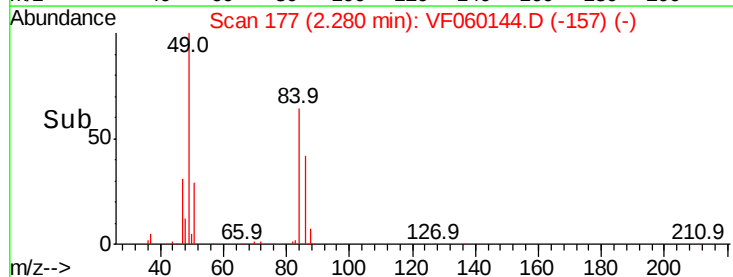
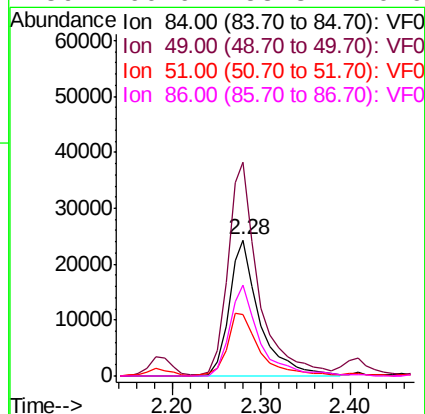
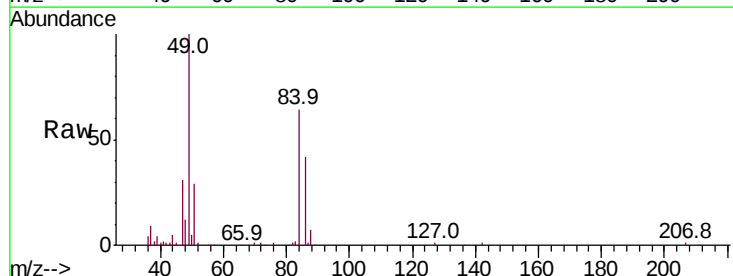
Tot Ion: 73 Resp: 165667
 Ion Ratio Lower Upper
 73 100
 57 17.8 13.7 20.5

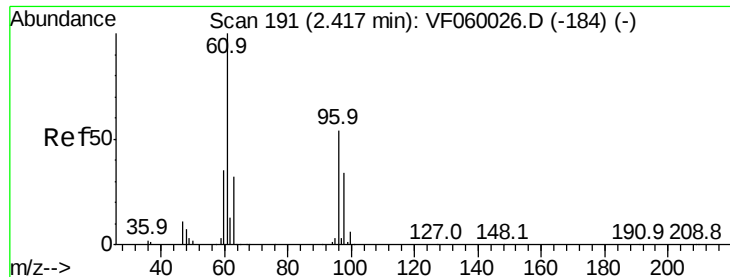


#20

Methylene Chloride
 Concen: 51.793 ug/l
 RT: 2.28 min Scan# 177
 Delta R.T. 0.00 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

Tgt Ion: 84 Resp: 58083
 Ion Ratio Lower Upper
 84 100
 49 157.4 125.4 188.0
 51 44.9 38.3 57.5
 86 66.6 53.3 79.9





#21

trans-1,2-Dichloroethene

Concen: 47.268 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

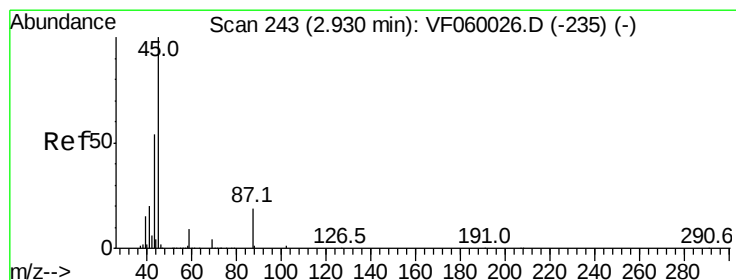
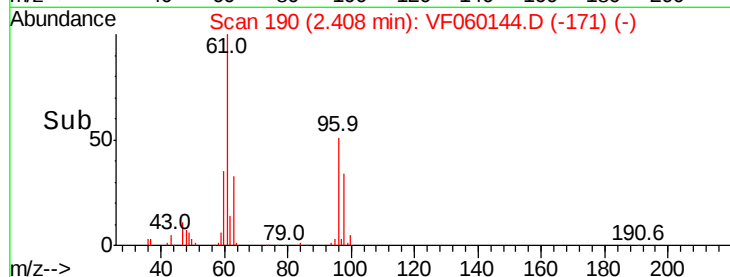
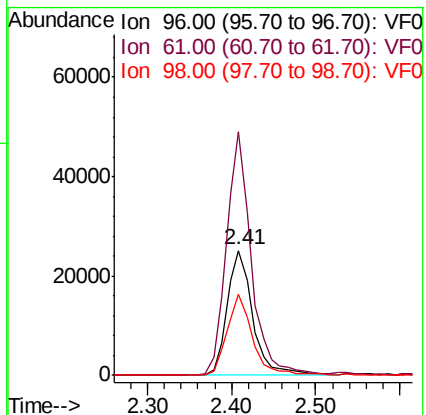
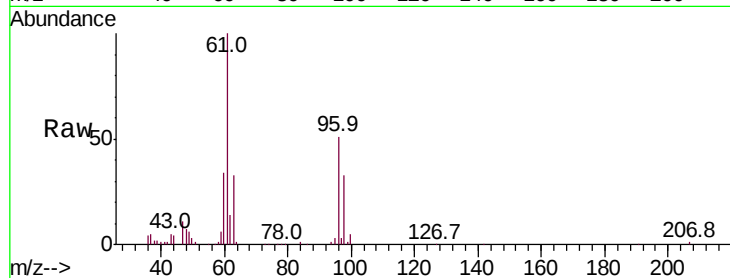
Tot Ion: 96 Resp: 53414

Ion Ratio Lower Upper

96 100

61 195.2 147.4 221.0

98 65.2 49.8 74.6



#22

Diisopropyl ether

Concen: 54.586 ug/l

RT: 2.91 min Scan# 241

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Tgt Ion: 45 Resp: 219238

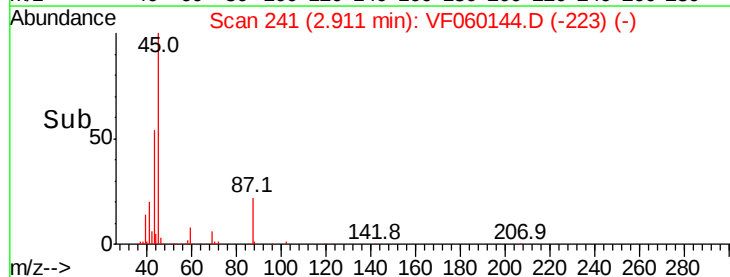
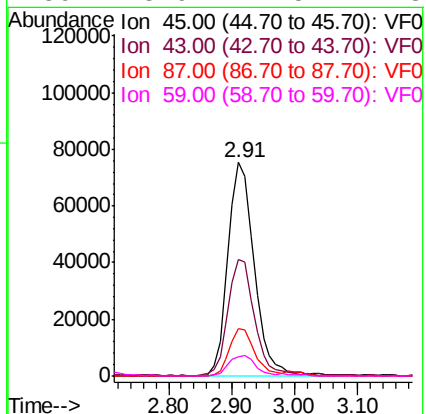
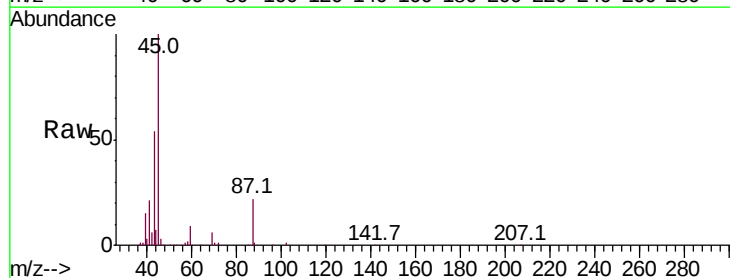
Ion Ratio Lower Upper

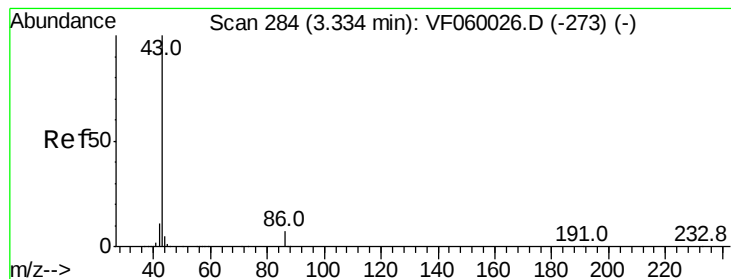
45 100

43 54.5 43.4 65.2

87 22.1 15.4 23.2

59 8.9 7.5 11.3





#23

Vinyl Acetate

Concen: 254.193 ug/l

RT: 3.32 min Scan# 282

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

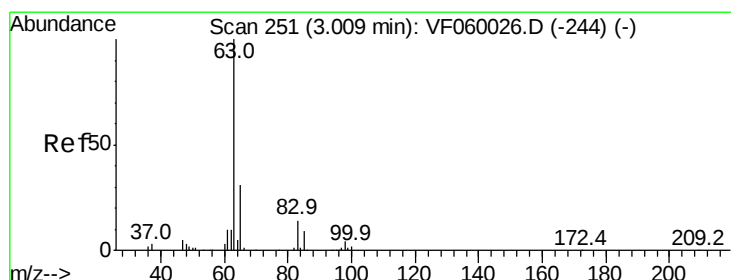
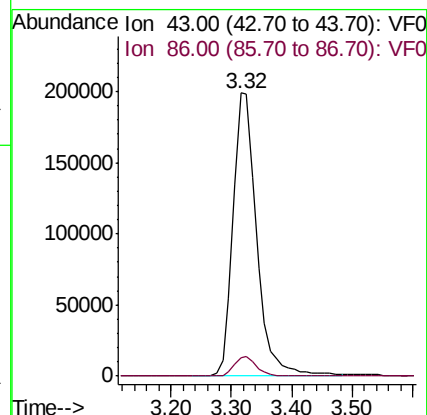
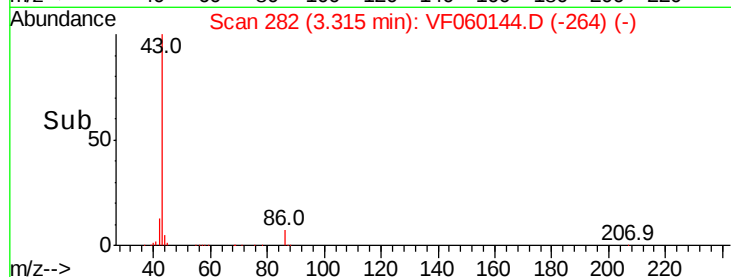
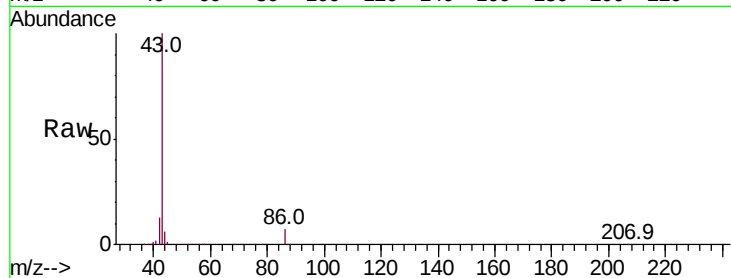
VSTDCCC050

Tot Ion: 43 Resp: 540854

Ion Ratio Lower Upper

43 100

86 6.6 5.6 8.4



#24

1,1-Dichloroethane

Concen: 67.718 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

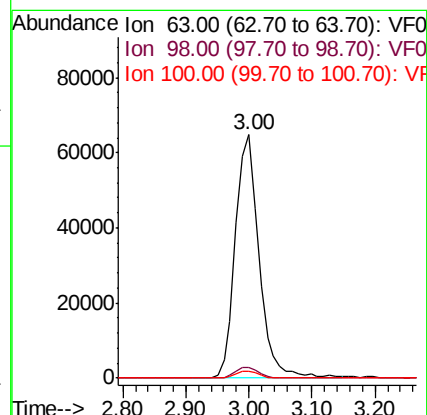
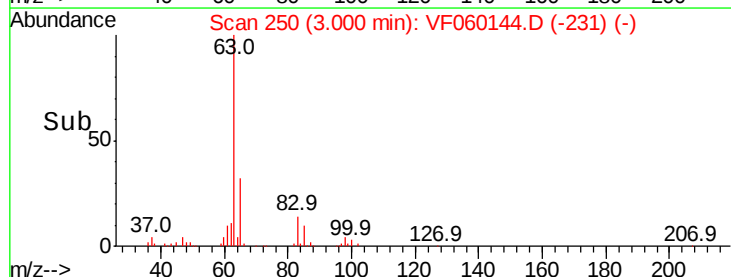
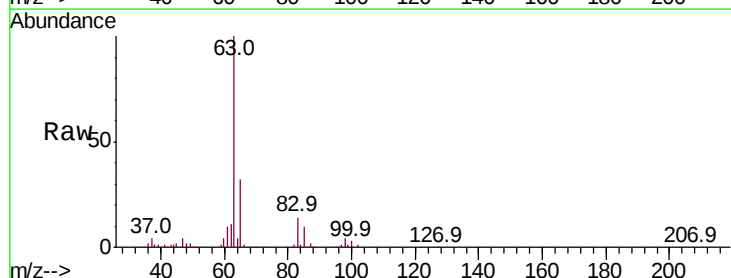
Tgt Ion: 63 Resp: 168016

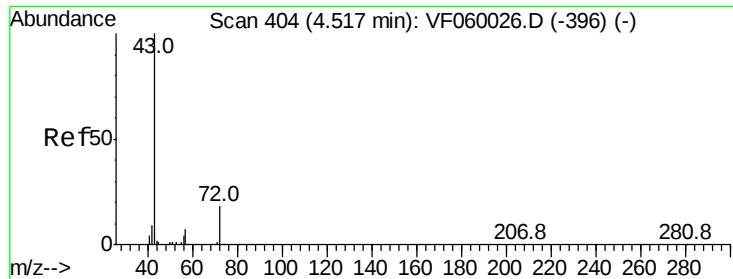
Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.5

100 2.8 1.1 3.3





#25

2-Butanone

Concen: 238.829 ug/l

RT: 4.49 min Scan# 401

Delta R.T. -0.03 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

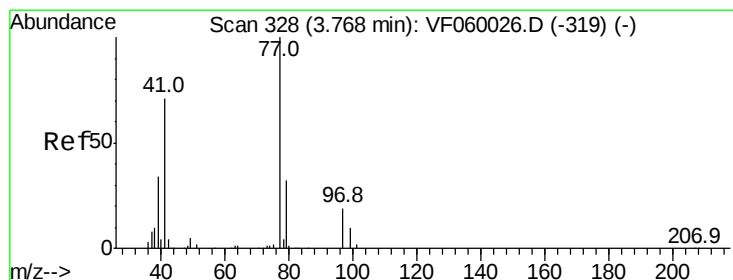
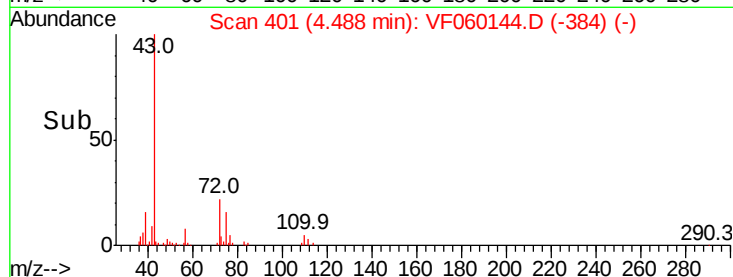
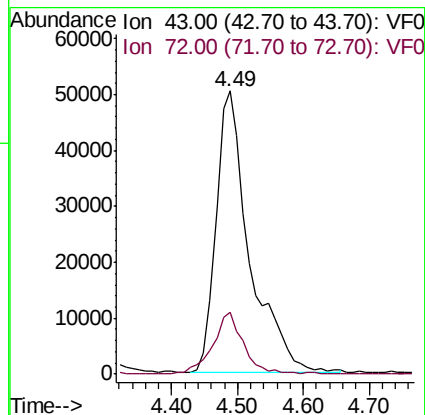
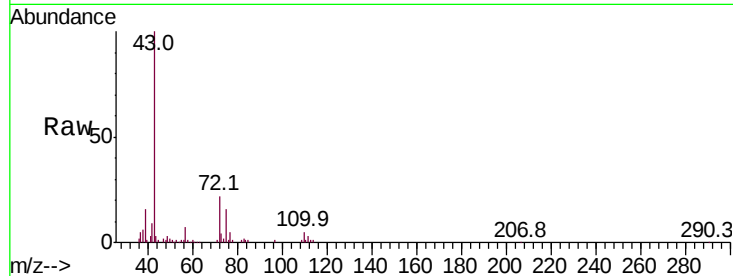
VSTDCCC050

Tot Ion: 43 Resp: 177281

Ion Ratio Lower Upper

43 100

72 21.9 15.0 22.6



#26

2,2-Dichloropropane

Concen: 66.655 ug/l

RT: 3.76 min Scan# 327

Delta R.T. -0.01 min

Lab File: VF060144.D

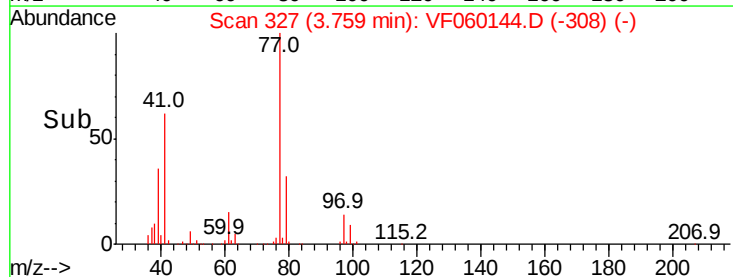
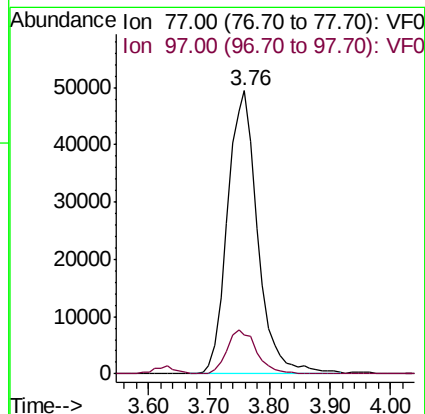
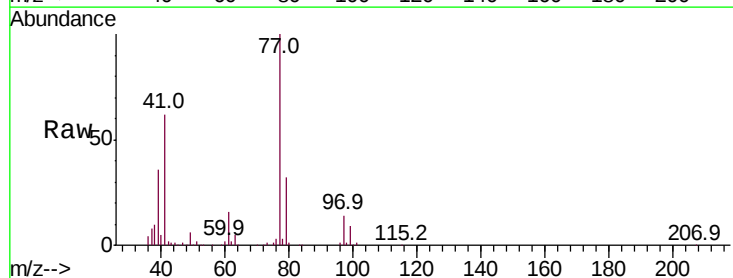
Acq: 28 Aug 2018 12:17

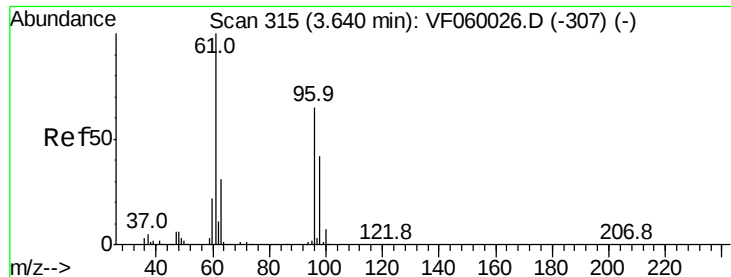
Tgt Ion: 77 Resp: 171103

Ion Ratio Lower Upper

77 100

97 13.7 9.7 29.1



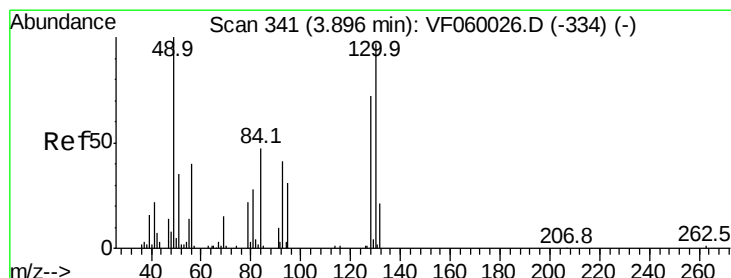
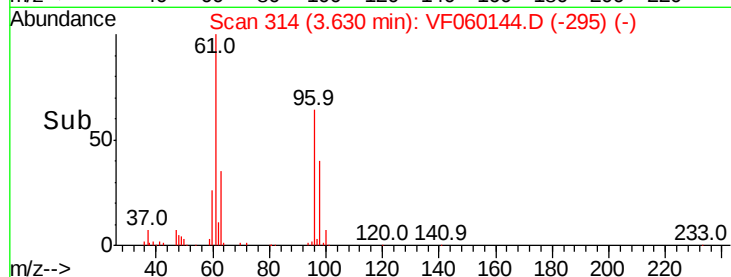
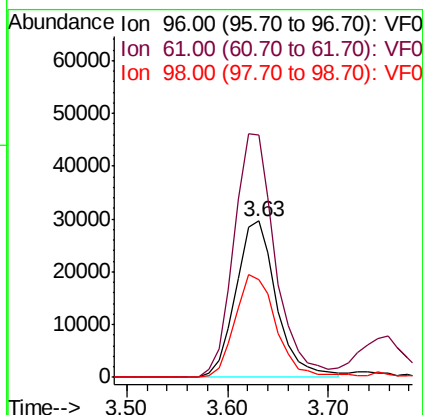
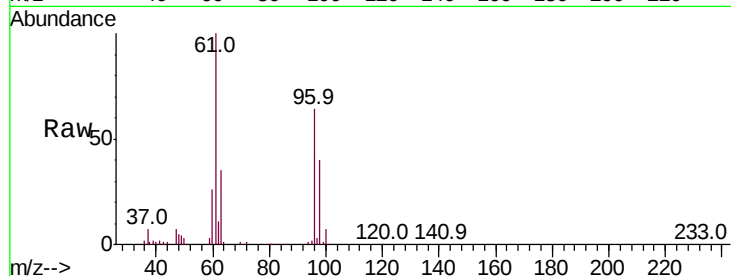


#27

cis-1,2-Dichloroethene
Concen: 51.726 ug/l
RT: 3.63 min Scan# 314
Delta R.T. -0.01 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

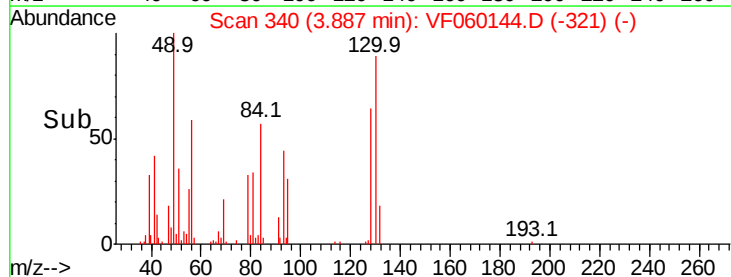
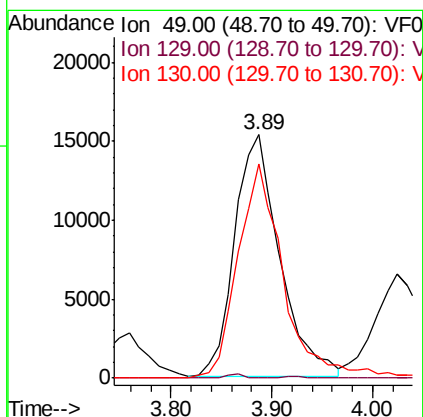
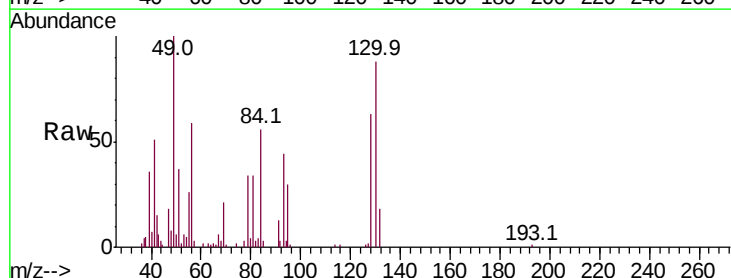
Tot Ion	96	Resp	82830
Ion	Ratio	Lower	Upper
96	100		
61	155.2	0.0	307.6
98	62.7	0.0	128.4

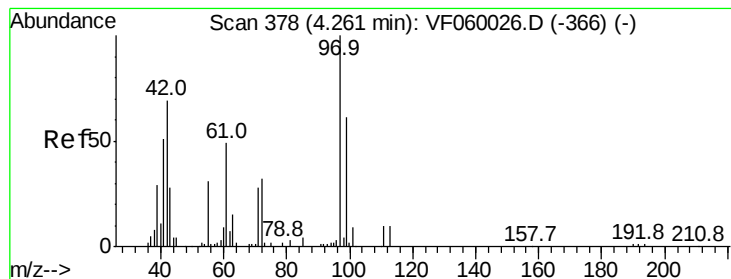


#28

Bromochloromethane
Concen: 45.291 ug/l
RT: 3.89 min Scan# 340
Delta R.T. -0.01 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Tgt Ion	49	Resp	47444
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	7.4
130	88.1	78.0	117.0





#29

Tetrahydrofuran

Concen: 225.047 ug/l

RT: 4.23 min Scan# 375

Delta R.T. -0.03 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

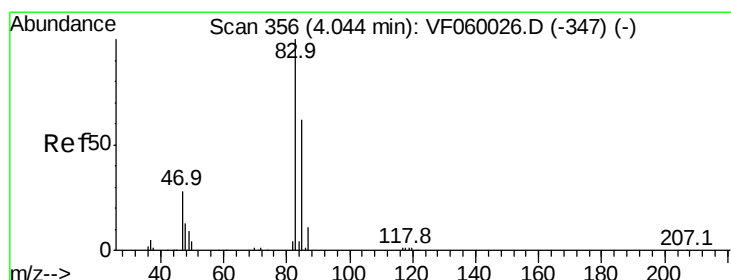
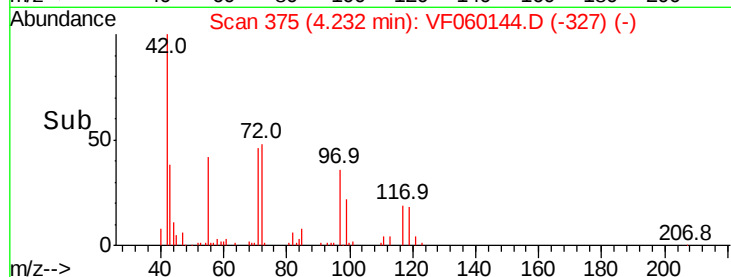
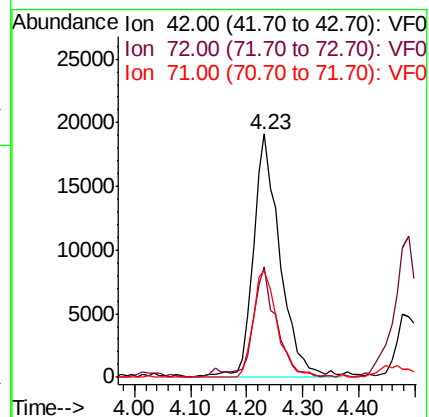
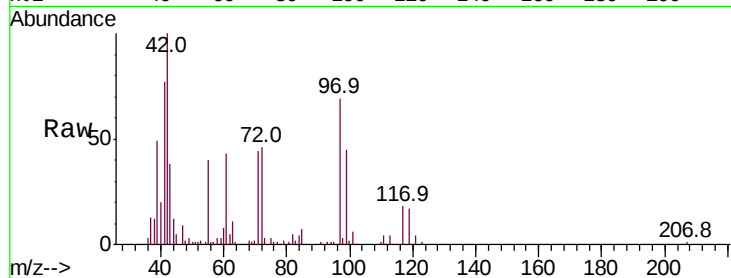
Tot Ion: 42 Resp: 63071

Ion Ratio Lower Upper

42 100

72 38.8 31.4 47.2

71 40.0 29.7 44.5



#30

Chloroform

Concen: 58.776 ug/l

RT: 4.02 min Scan# 354

Delta R.T. -0.02 min

Lab File: VF060144.D

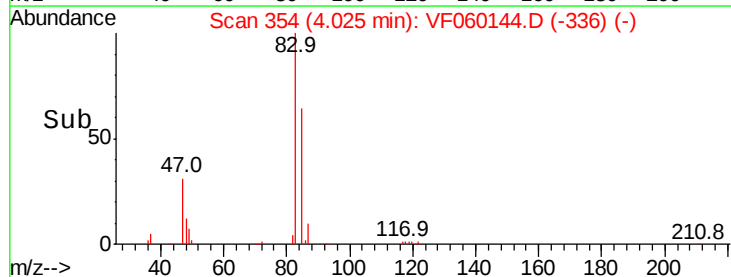
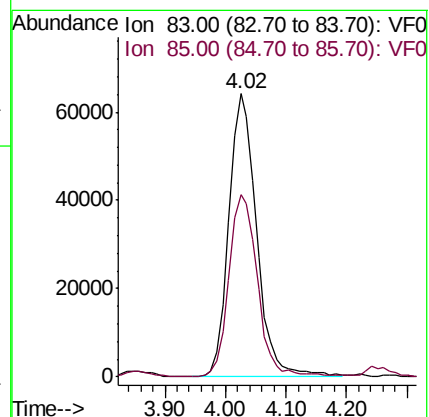
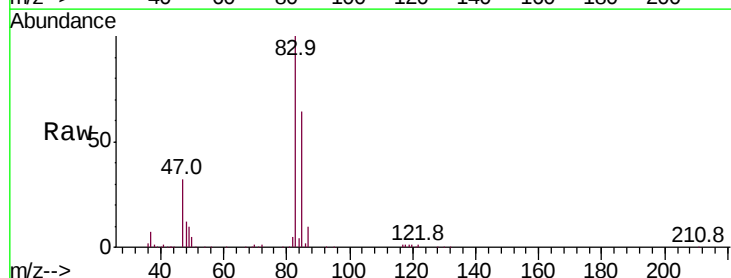
Acq: 28 Aug 2018 12:17

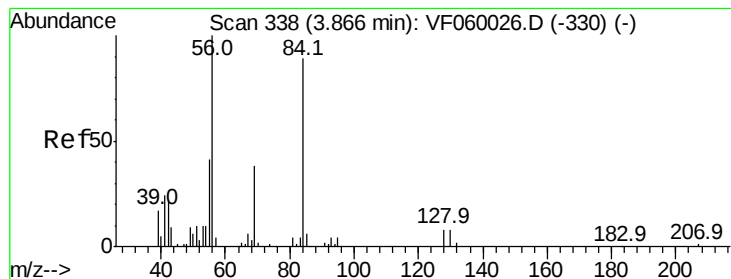
Tgt Ion: 83 Resp: 204702

Ion Ratio Lower Upper

83 100

85 64.5 49.5 74.3





#31

Cyclohexane

Concen: 47.364 ug/l

RT: 3.86 min Scan# 337

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

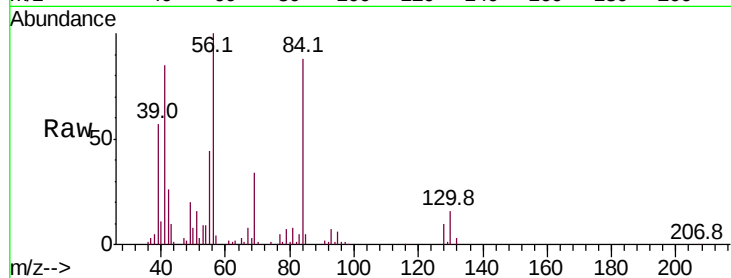
Tot Ion: 56 Resp: 89545

Ion Ratio Lower Upper

56 100

69 34.2 30.4 45.6

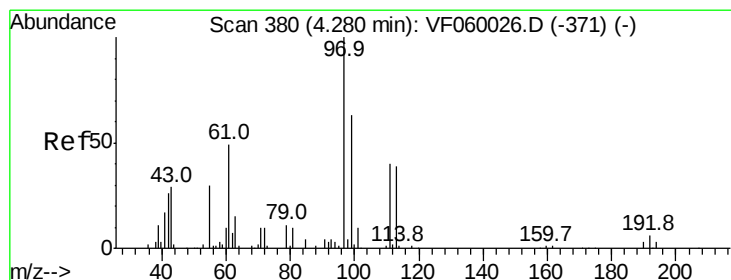
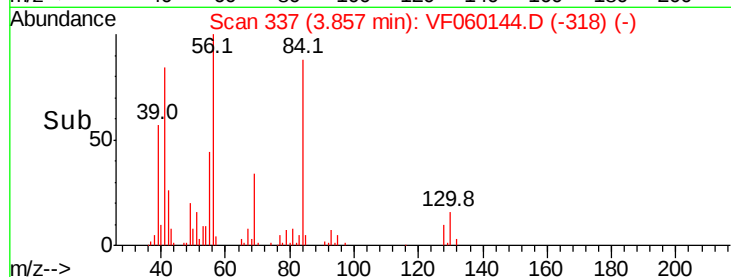
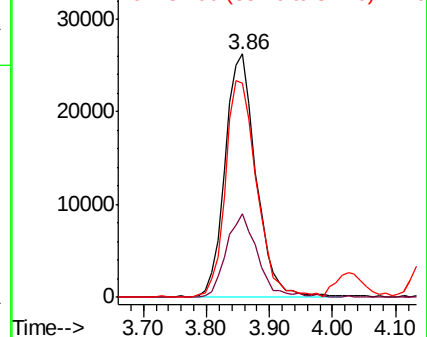
84 87.8 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 62.831 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

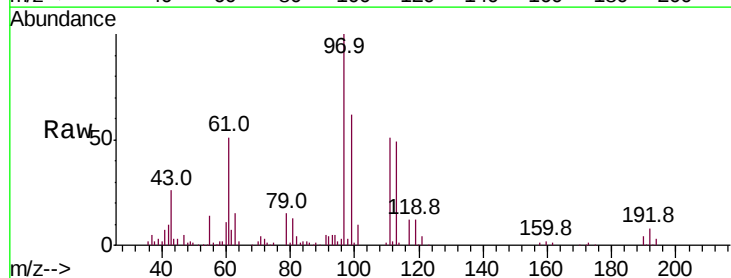
Tgt Ion: 97 Resp: 187390

Ion Ratio Lower Upper

97 100

99 62.2 50.3 75.5

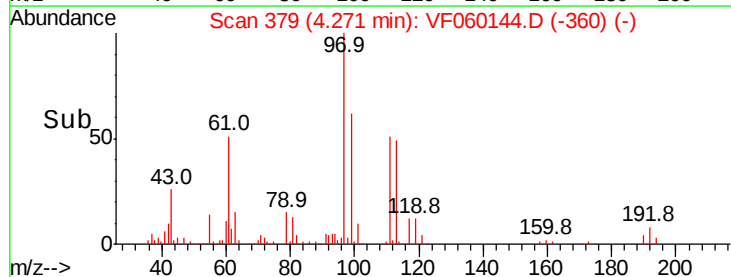
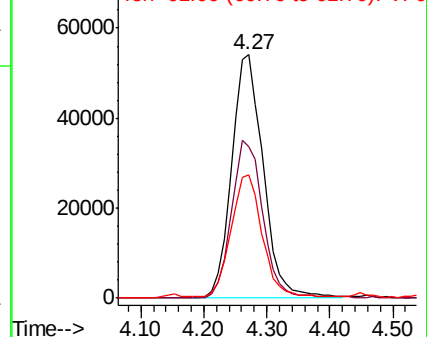
61 50.8 40.3 60.5

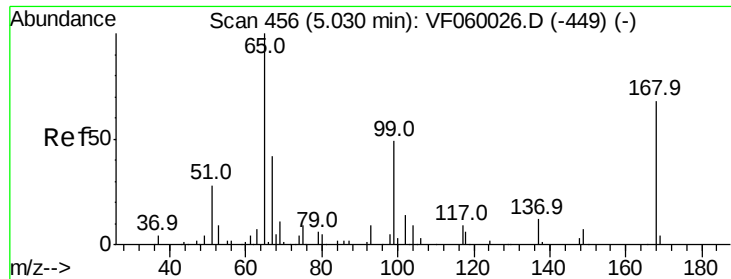


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

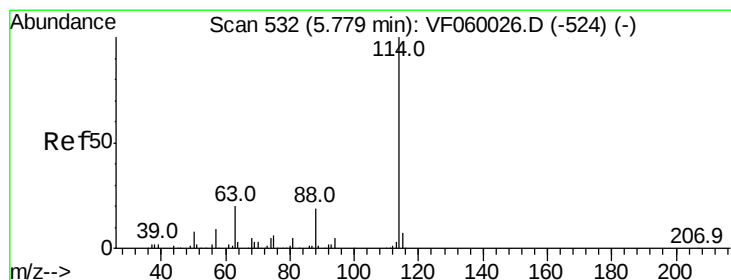
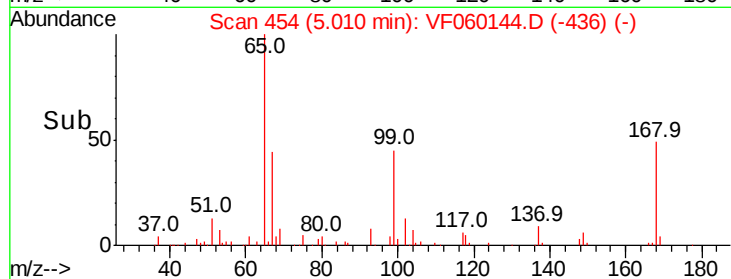
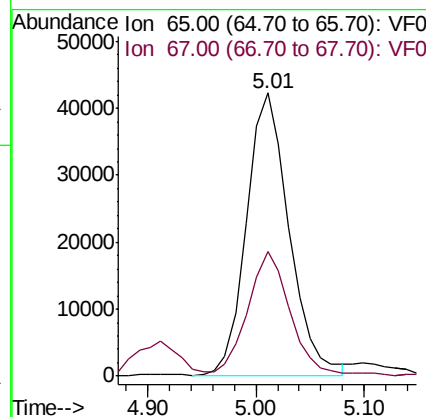
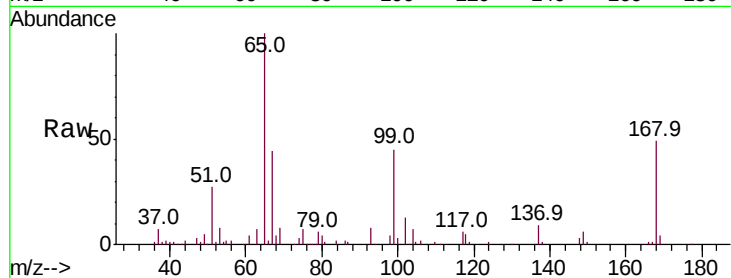




#33
 1,2-Dichloroethane-d4
 Concen: 53.506 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.02 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

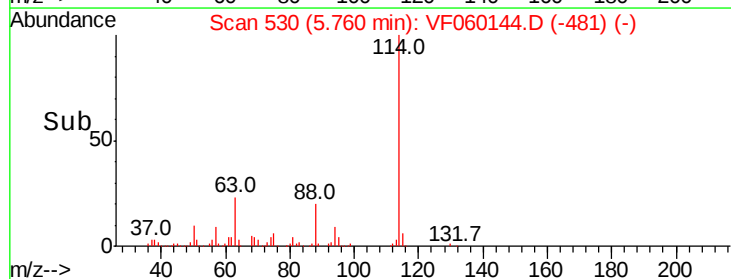
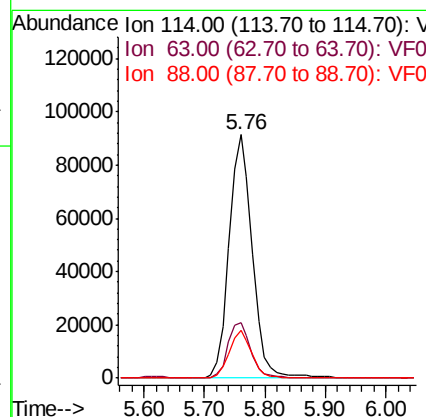
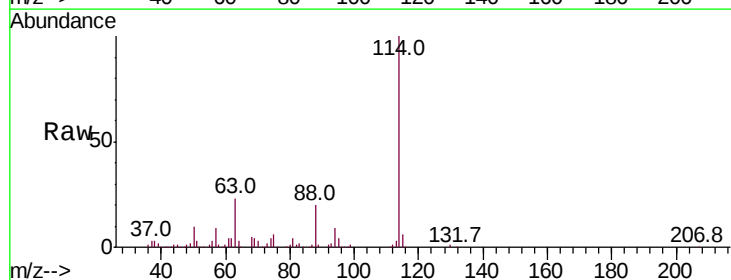
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

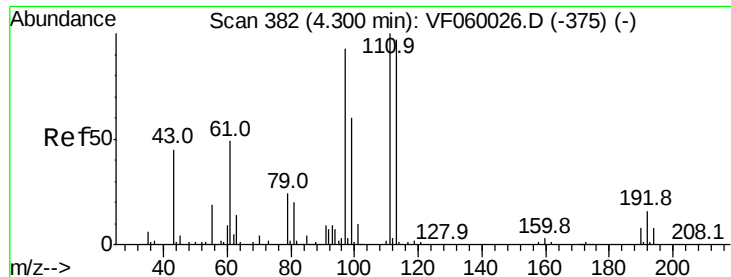
Tot Ion: 65 Resp: 116342
 Ion Ratio Lower Upper
 65 100
 67 43.9 0.0 92.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.02 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

Tgt Ion: 114 Resp: 243294
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 40.4
 88 19.6 0.0 38.6





#35

Dibromofluoromethane

Concen: 54.141 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

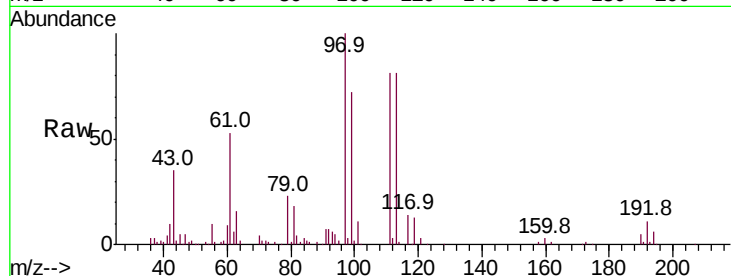
Tot Ion:113 Resp: 103434

Ion Ratio Lower Upper

113 100

111 99.9 82.7 124.1

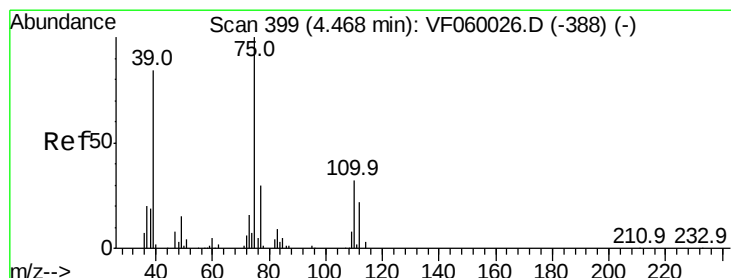
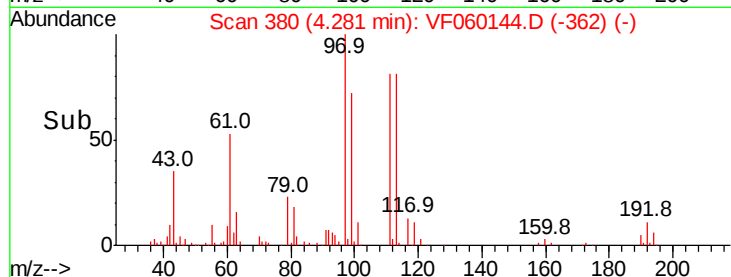
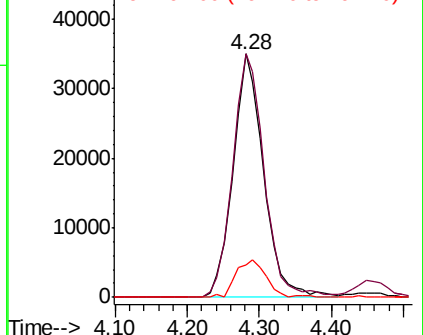
192 13.1 13.0 19.4



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 52.171 ug/l

RT: 4.45 min Scan# 397

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

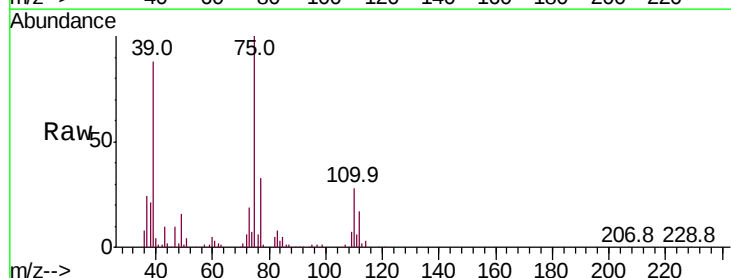
Tgt Ion: 75 Resp: 119280

Ion Ratio Lower Upper

75 100

110 28.1 16.0 47.9

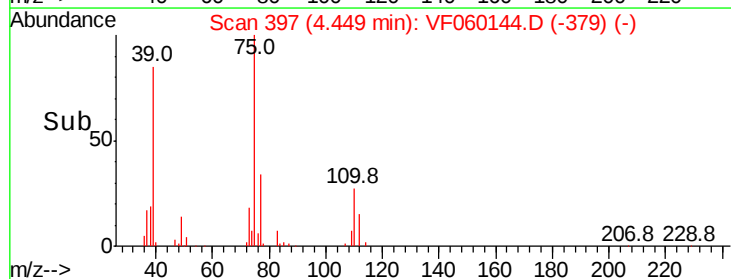
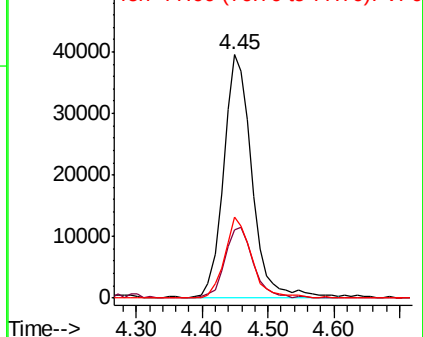
77 33.2 24.1 36.1

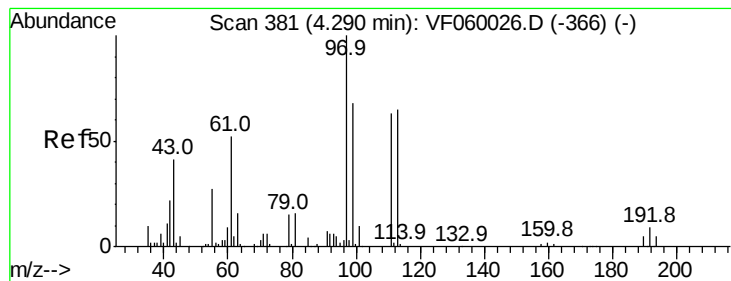


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 44.329 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

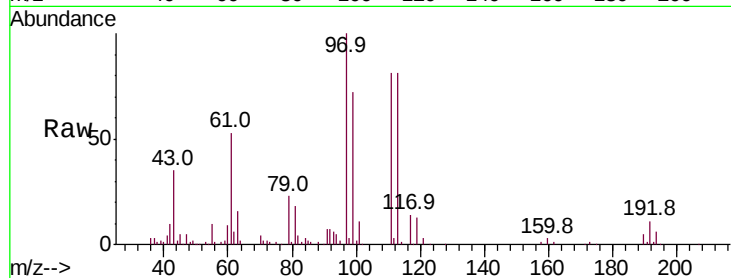
Tot Ion: 43 Resp: 60613

Ion Ratio Lower Upper

43 100

61 149.3 101.5 152.3

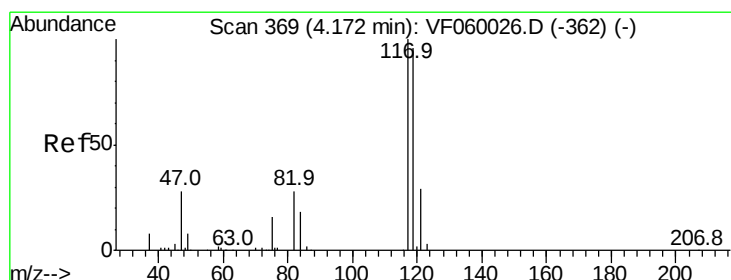
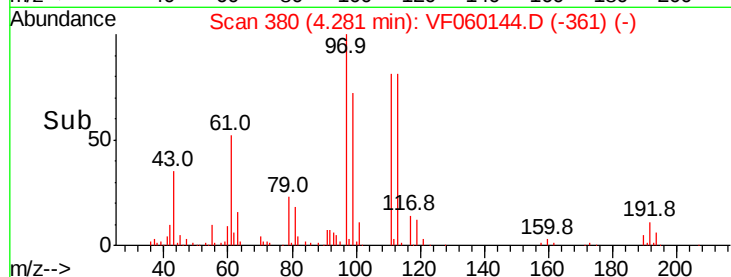
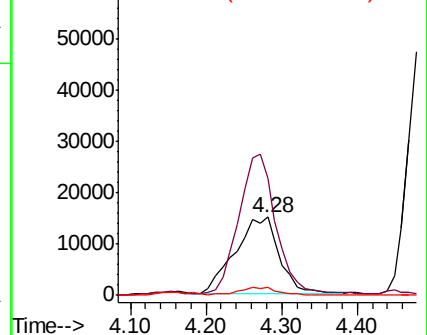
70 10.5 6.4 9.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 62.210 ug/l

RT: 4.16 min Scan# 368

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

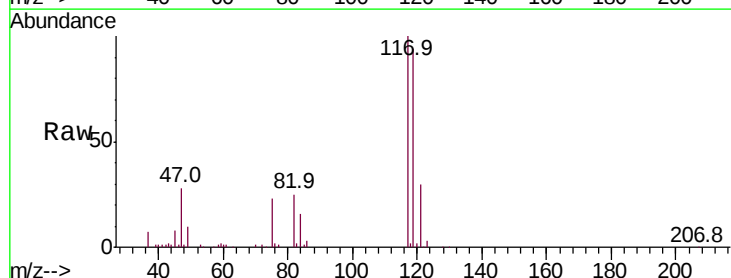
Tgt Ion: 117 Resp: 164700

Ion Ratio Lower Upper

117 100

119 94.5 76.5 114.7

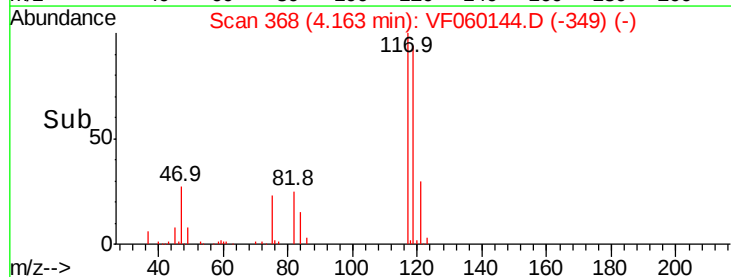
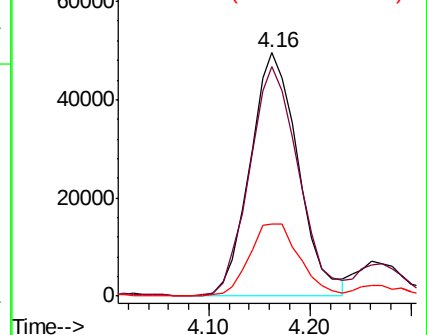
121 29.8 23.0 34.6

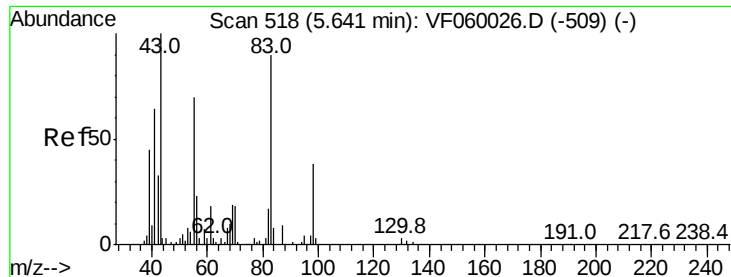


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

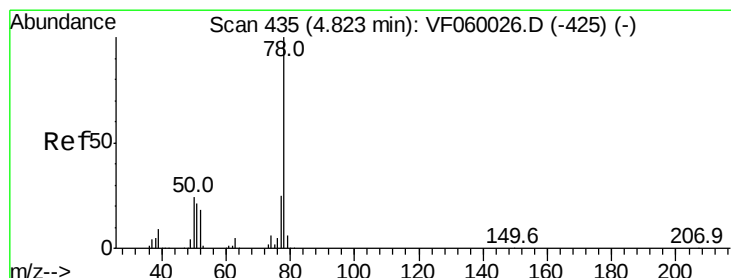
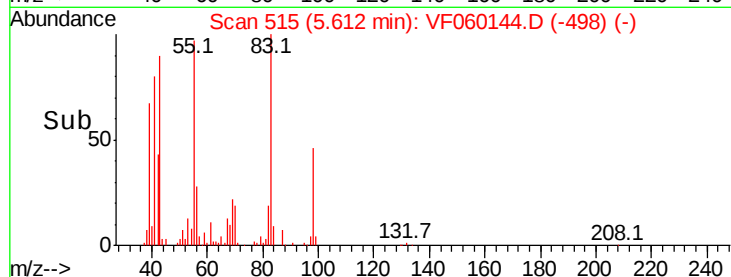
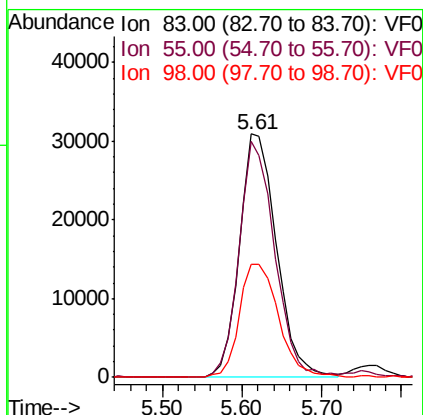
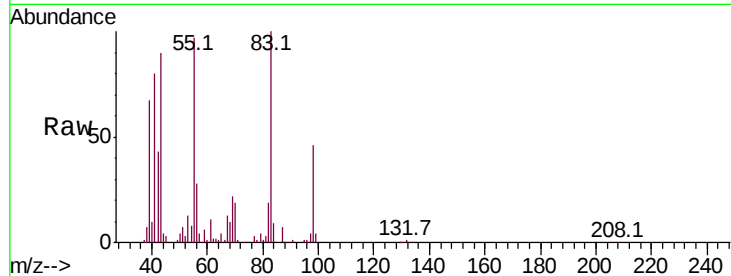




#39
Methylcyclohexane
Concen: 46.409 ug/l
RT: 5.61 min Scan# 515
Delta R.T. -0.03 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

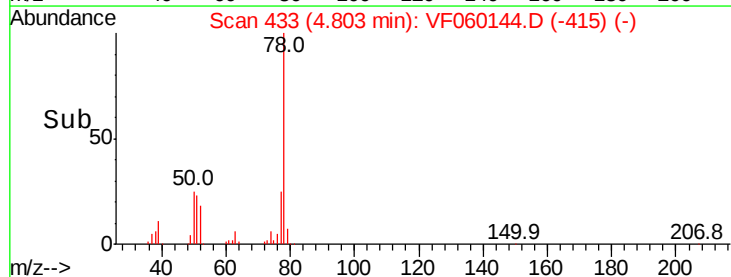
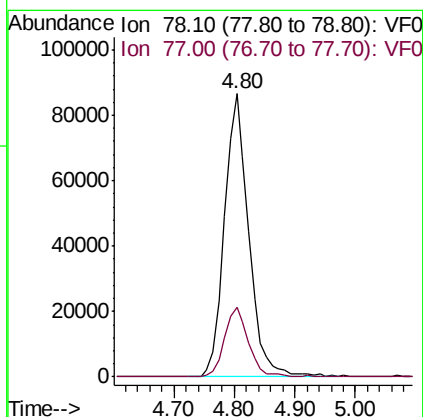
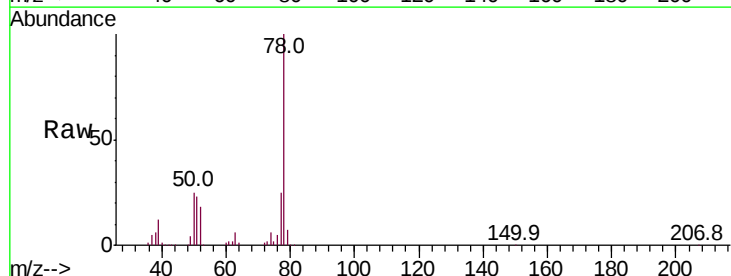
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

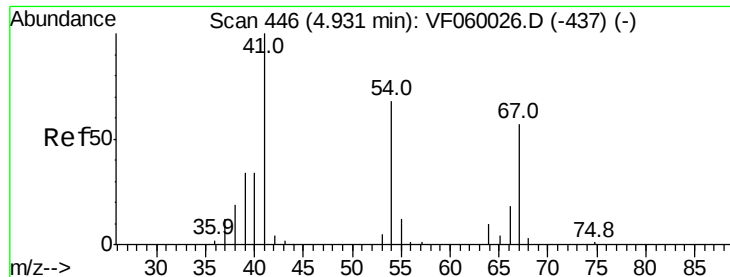
Tot Ion: 83 Resp: 99490
Ion Ratio Lower Upper
83 100
55 97.1 62.7 94.1#
98 46.3 33.8 50.8



#40
Benzene
Concen: 48.390 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.02 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Tgt Ion: 78 Resp: 241680
Ion Ratio Lower Upper
78 100
77 24.8 19.8 29.6

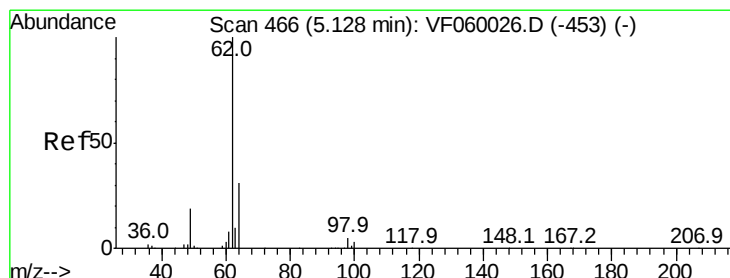
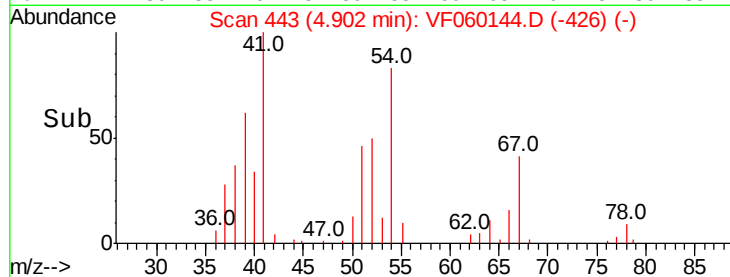
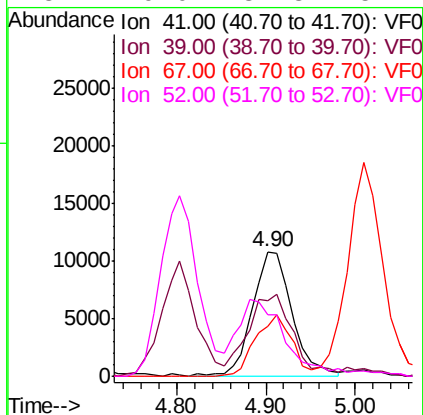
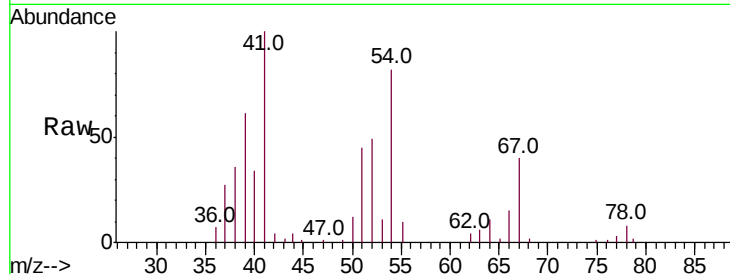




#41
Methacrylonitrile
Concen: 48.045 ug/l
RT: 4.90 min Scan# 443
Delta R.T. -0.03 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

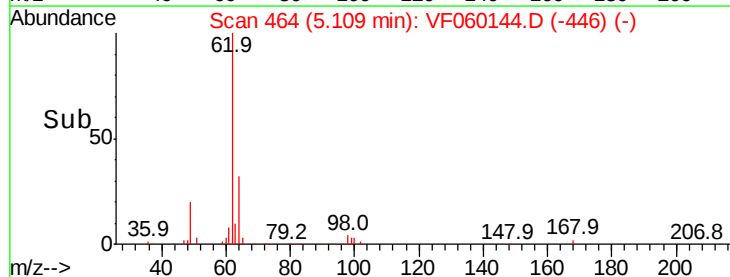
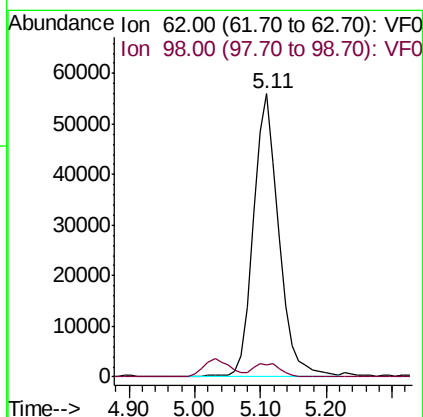
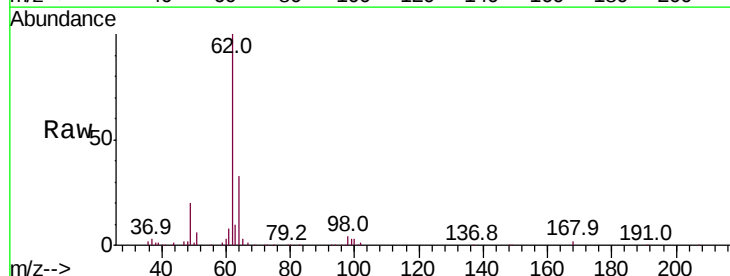
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

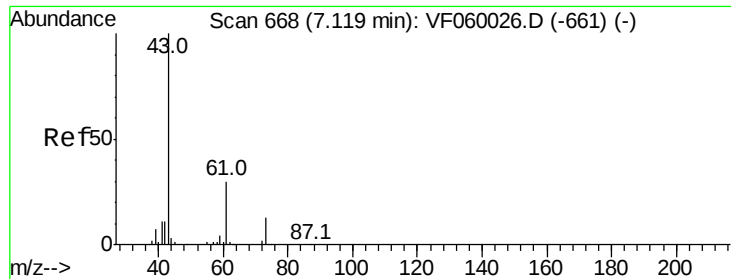
Tot Ion: 41 Resp: 33229
Ion Ratio Lower Upper
41 100
39 60.6 52.9 79.3
67 40.3 45.3 67.9#
52 49.0 34.8 52.2



#42
1,2-Dichloroethane
Concen: 56.944 ug/l
RT: 5.11 min Scan# 464
Delta R.T. -0.02 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Tgt Ion: 62 Resp: 152498
Ion Ratio Lower Upper
62 100
98 4.5 0.0 11.2



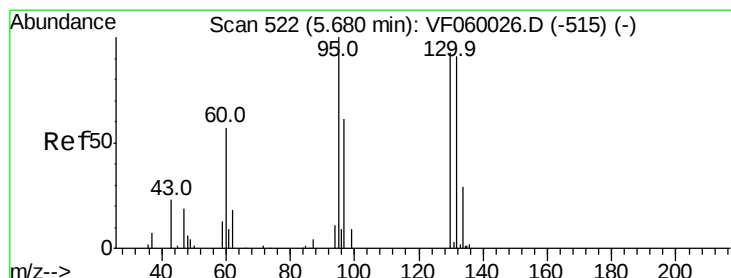
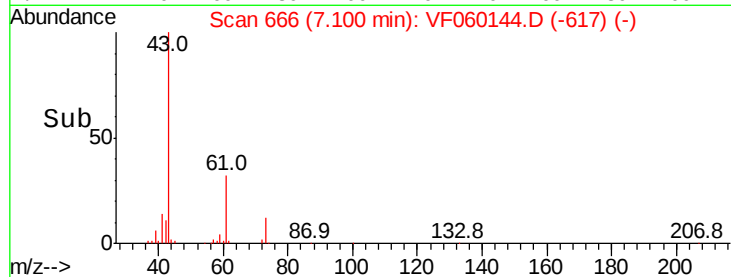
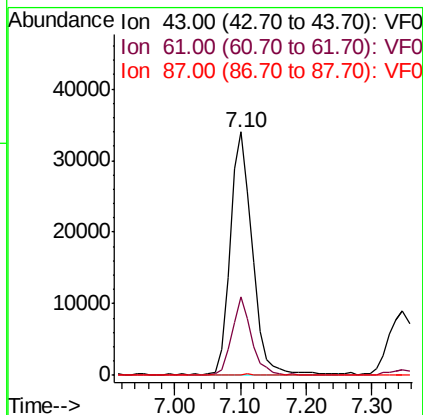
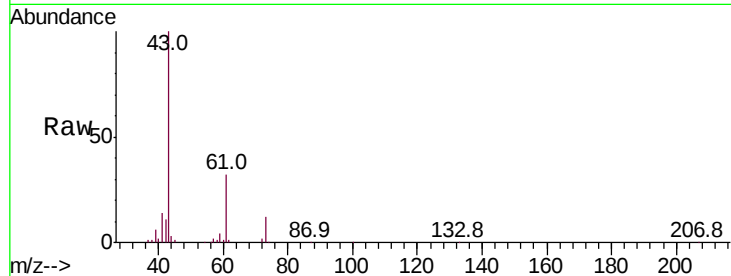


#43

Isopropyl Acetate
 Concen: 46.933 ug/l
 RT: 7.10 min Scan# 666
 Delta R.T. -0.02 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

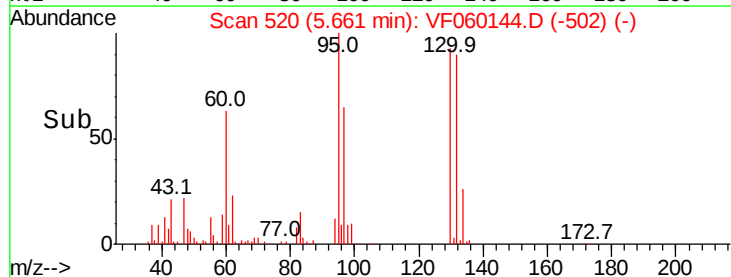
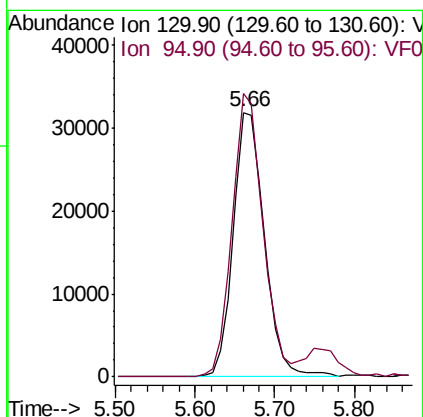
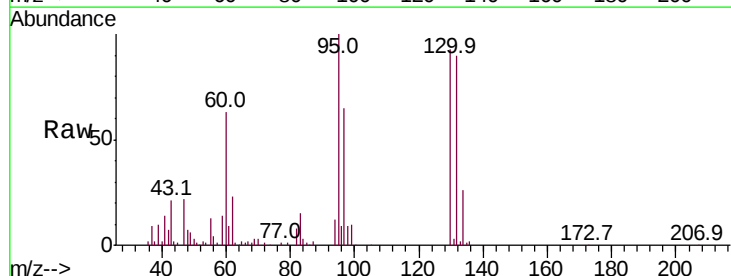
Tot Ion: 43 Resp: 80771
 Ion Ratio Lower Upper
 43 100
 61 32.4 23.8 35.6
 87 0.3 0.2 0.4

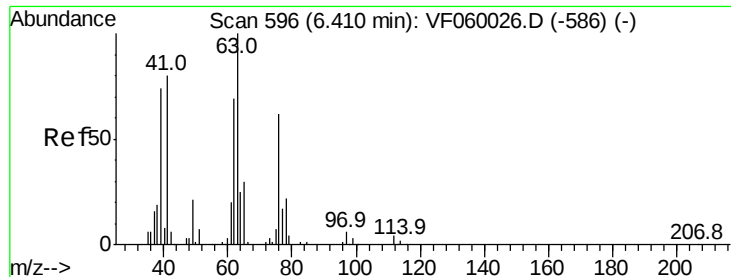


#44

Trichloroethene
 Concen: 52.778 ug/l
 RT: 5.66 min Scan# 520
 Delta R.T. -0.02 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

Tgt Ion:130 Resp: 87141
 Ion Ratio Lower Upper
 130 100
 95 107.1 0.0 215.8





#45

1,2-Dichloropropane

Concen: 51.612 ug/l

RT: 6.39 min Scan# 594

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

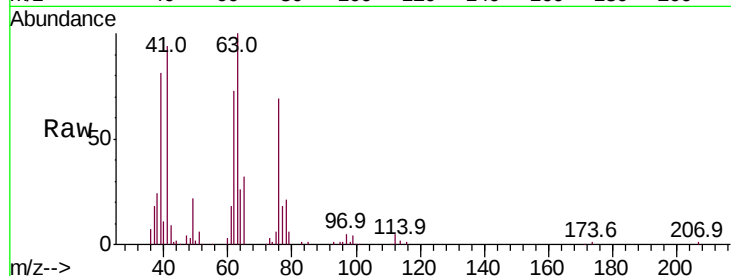
VSTDCCC050

Tot Ion: 63 Resp: 72915

Ion Ratio Lower Upper

63 100

65 31.9 23.8 35.6



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

30000

25000

20000

15000

10000

5000

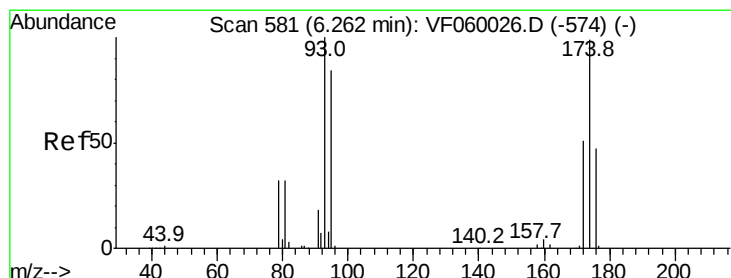
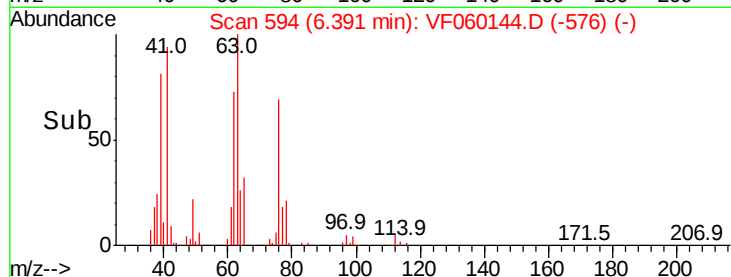
0

6.39

6.40

6.50

Time-->



#46

Dibromomethane

Concen: 55.098 ug/l

RT: 6.24 min Scan# 579

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

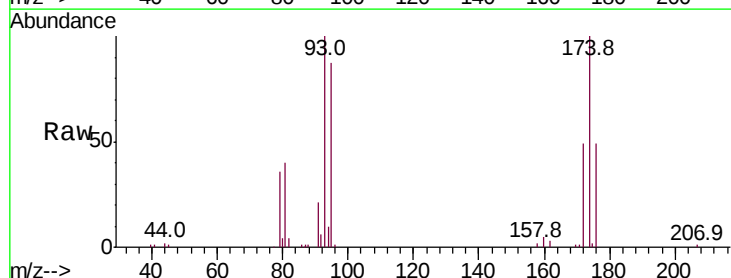
Tgt Ion: 93 Resp: 60909

Ion Ratio Lower Upper

93 100

95 86.7 67.1 100.7

174 101.5 79.0 118.4



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

30000

25000

20000

15000

10000

5000

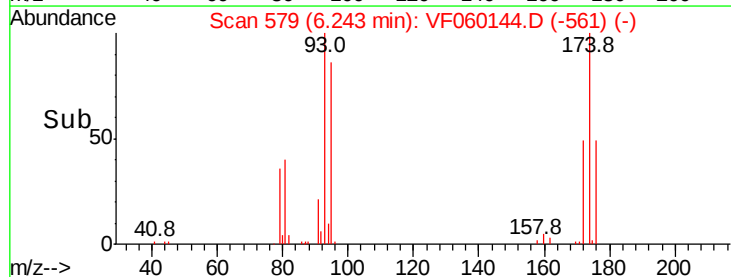
0

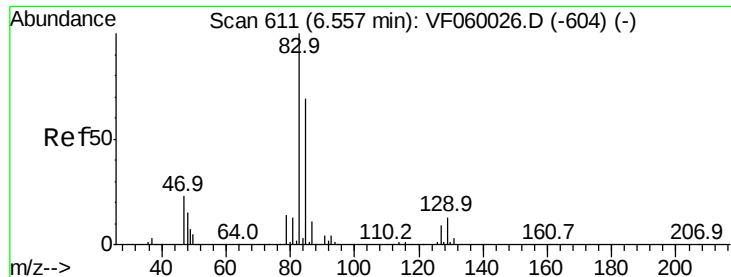
6.24

6.30

6.40

Time-->





#47

Bromodichloromethane

Concen: 59.893 ug/l

RT: 6.54 min Scan# 609

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

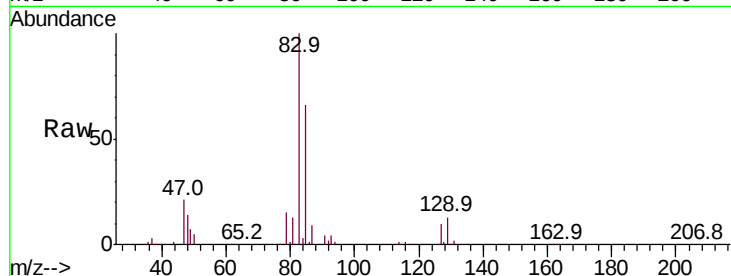
Tot Ion: 83 Resp: 159919

Ion Ratio Lower Upper

83 100

85 65.8 55.2 82.8

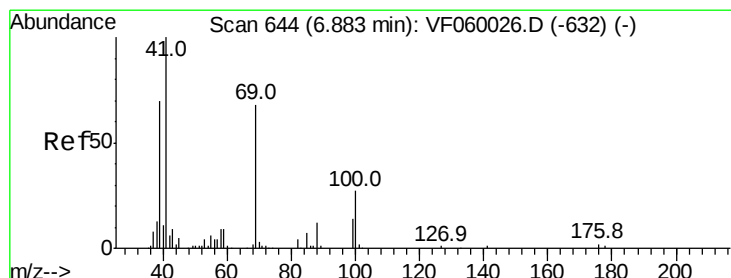
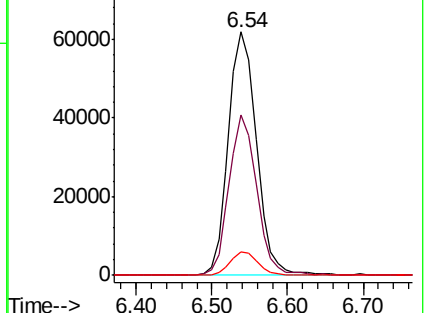
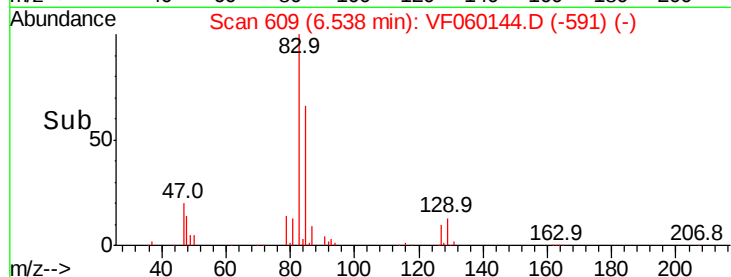
127 9.5 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 45.721 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

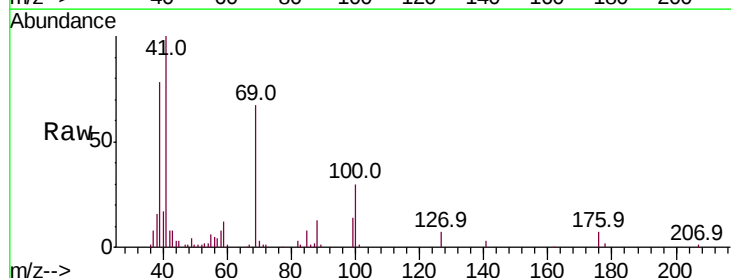
Tgt Ion: 41 Resp: 52067

Ion Ratio Lower Upper

41 100

69 66.6 54.6 81.8

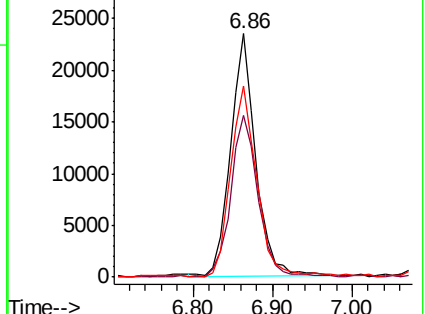
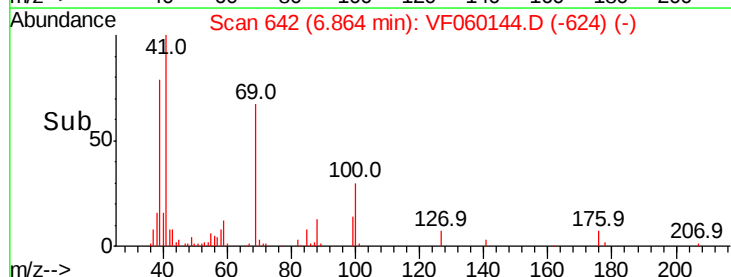
39 78.4 56.5 84.7

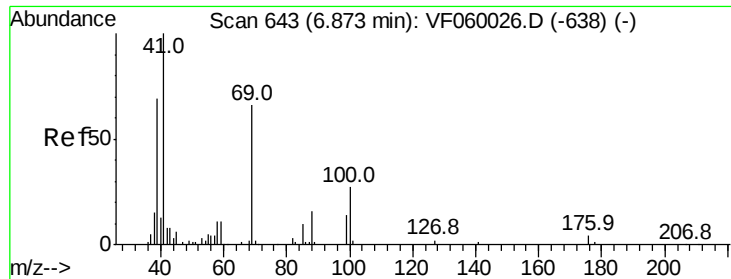


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 930.821 ug/l

RT: 6.84 min Scan# 640

Delta R.T. -0.03 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

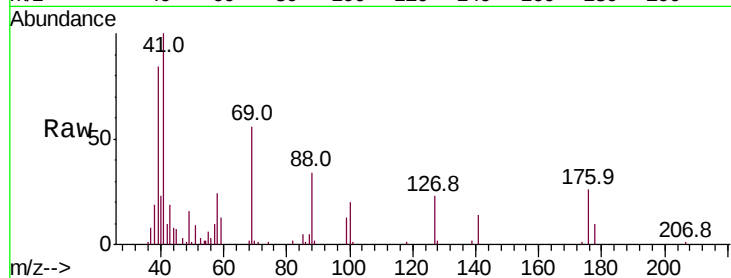
Tot Ion: 88 Resp: 10176

Ion Ratio Lower Upper

88 100

43 56.1 46.5 69.7

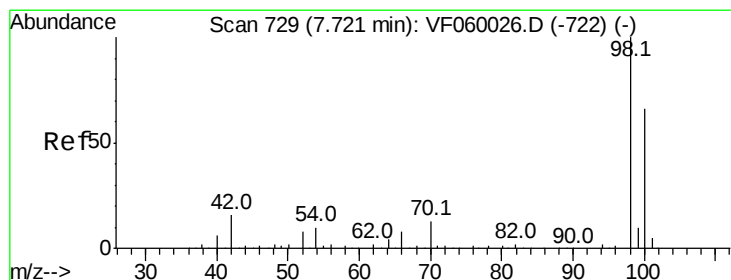
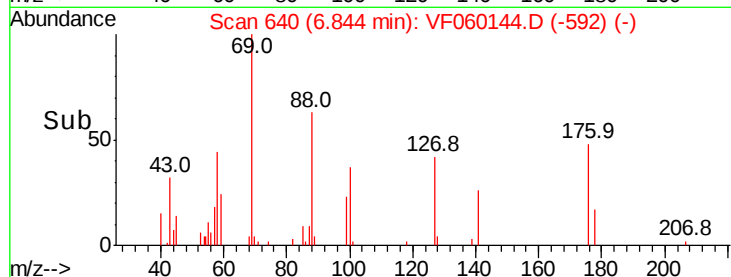
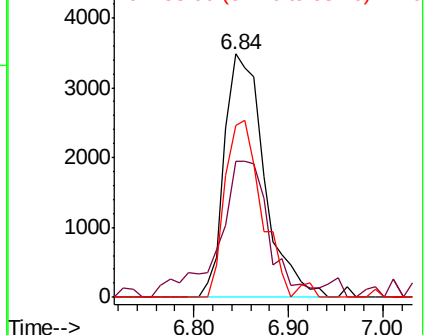
58 70.4 54.8 82.2



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 48.559 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.02 min

Lab File: VF060144.D

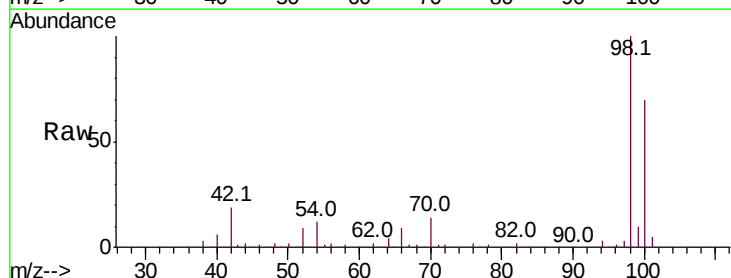
Acq: 28 Aug 2018 12:17

Tgt Ion: 98 Resp: 263468

Ion Ratio Lower Upper

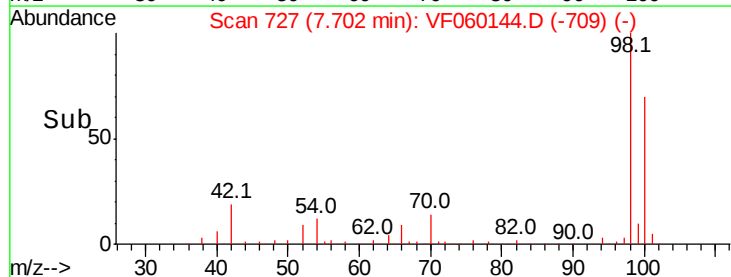
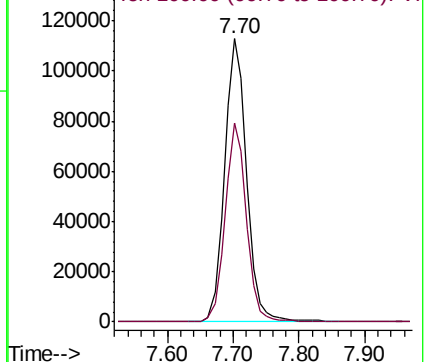
98 100

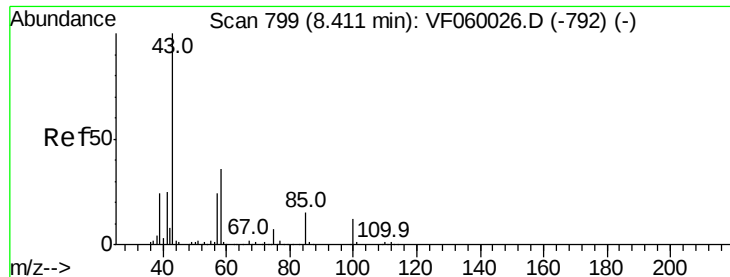
100 70.1 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 249.249 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

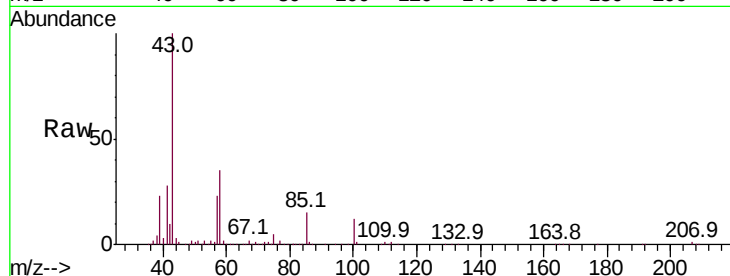
VSTDCCC050

Tot Ion: 43 Resp: 370423

Ion Ratio Lower Upper

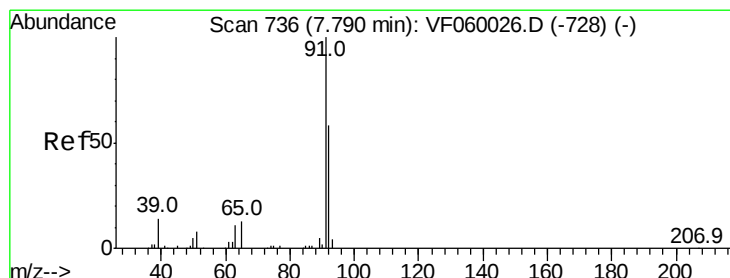
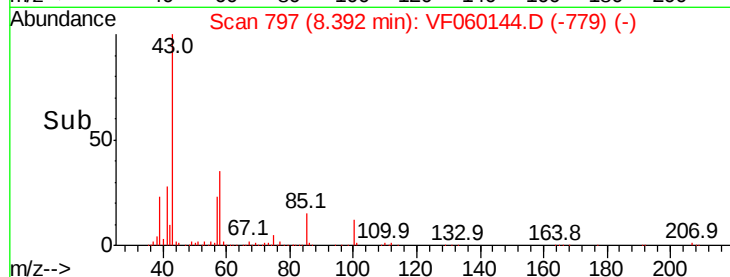
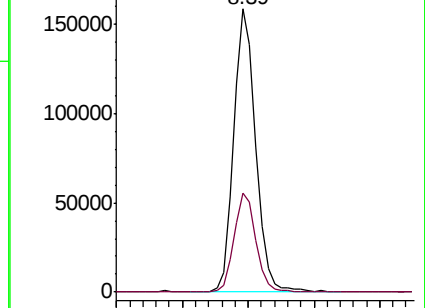
43 100

58 34.8 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 58.123 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF060144.D

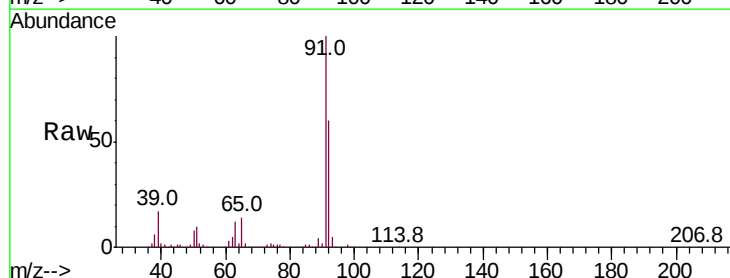
Acq: 28 Aug 2018 12:17

Tgt Ion: 92 Resp: 184177

Ion Ratio Lower Upper

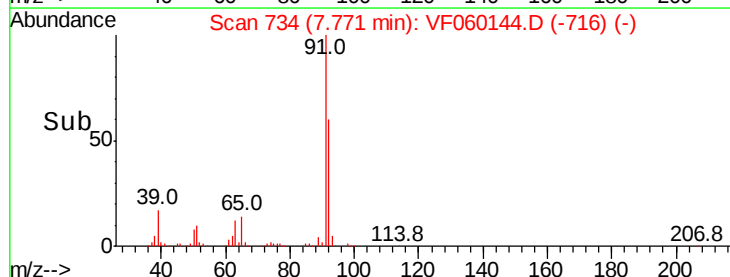
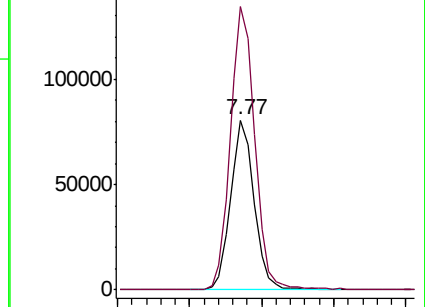
92 100

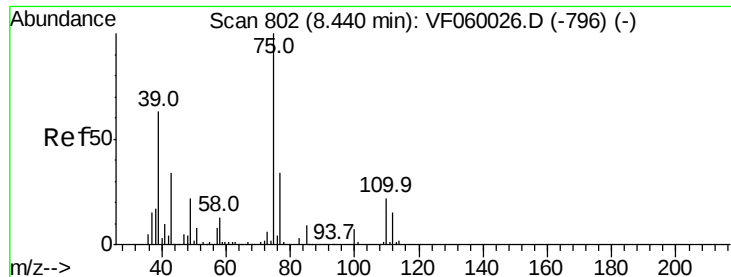
91 166.9 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 54.811 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

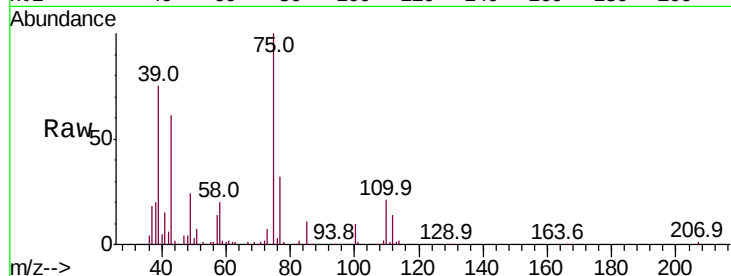
VSTDCCC050

Tot Ion: 75 Resp: 132716

Ion Ratio Lower Upper

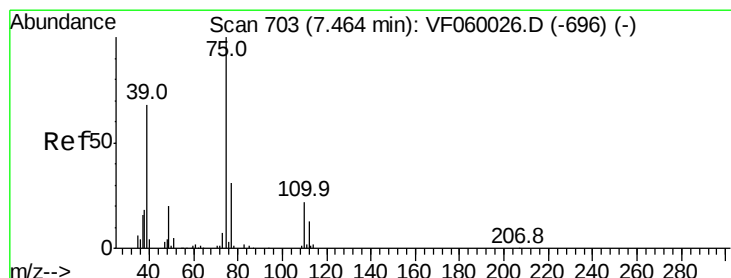
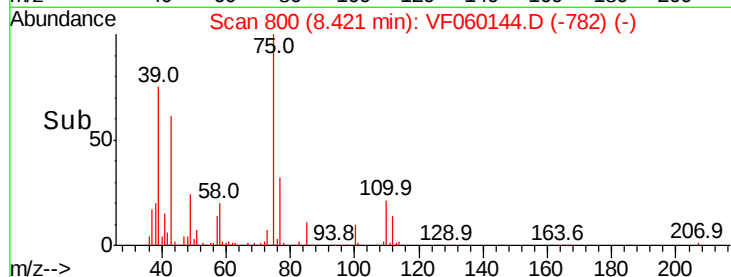
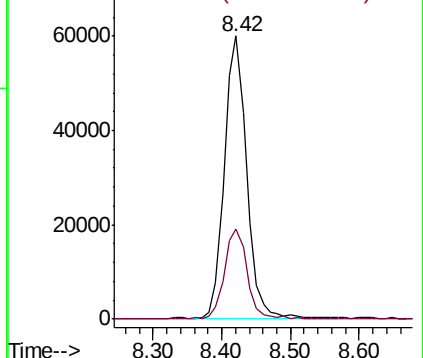
75 100

77 31.8 27.4 41.2



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: 52.872 ug/l

RT: 7.45 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

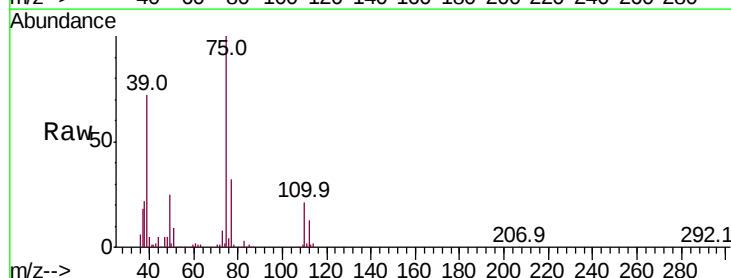
Tgt Ion: 75 Resp: 142882

Ion Ratio Lower Upper

75 100

77 32.2 24.6 37.0

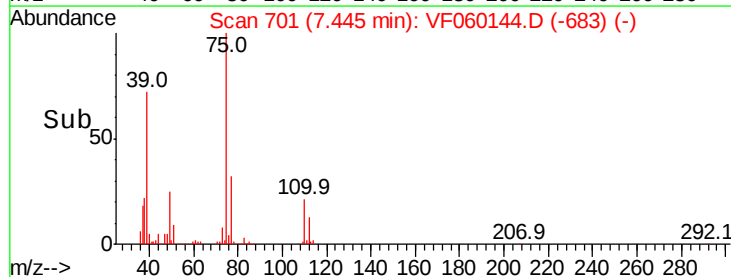
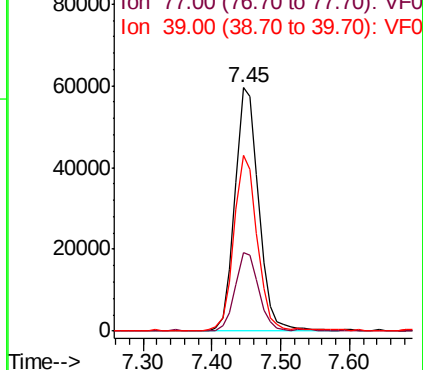
39 72.0 54.6 81.8

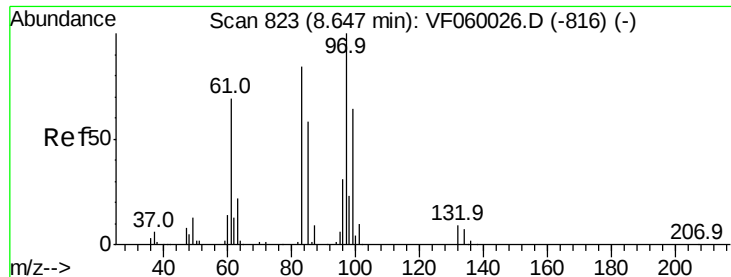


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 52.132 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 70255

Ion	Ratio	Lower	Upper
97	100		
83	87.4	67.4	101.2
85	57.3	46.2	69.2
99	63.6	51.1	76.7

Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0

Time-->

8.50 8.60 8.70

8.63

40000

30000

20000

10000

0

8.50 8.60 8.70

Time-->

8.50 8.60 8.70

8.63

40000

30000

20000

10000

0

8.50 8.60 8.70

Time-->

8.50 8.60 8.70

8.63

40000

30000

20000

10000

0

8.50 8.60 8.70

Time-->

8.50 8.60 8.70

8.63

40000

30000

20000

10000

0

8.50 8.60 8.70

Time-->

8.50 8.60 8.70

8.63

40000

30000

20000

10000

0

8.50 8.60 8.70

Time-->

8.50 8.60 8.70

8.63

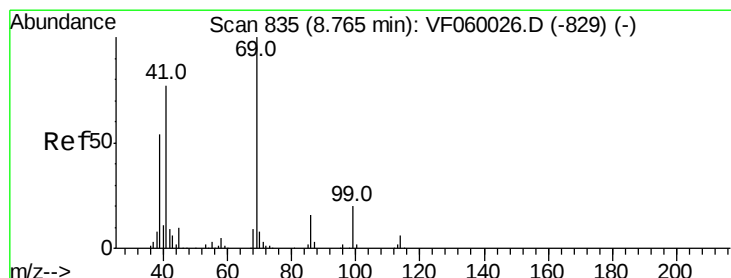
40000

30000

20000

10000

0



#56

Ethyl methacrylate

Concen: 51.731 ug/l

RT: 8.76 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Tgt Ion: 69 Resp: 84384

Ion	Ratio	Lower	Upper
69	100		
41	69.3	61.6	92.4
39	48.7	43.9	65.9

Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Time-->

8.70 8.80 8.90

8.76

50000

40000

30000

20000

10000

0

8.70 8.80 8.90

Time-->

8.70 8.80 8.90

8.76

50000

40000

30000

20000

10000

0

8.70 8.80 8.90

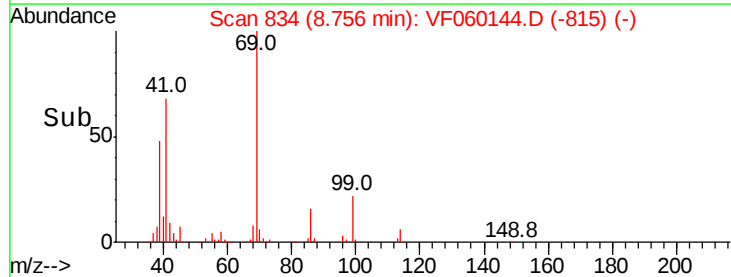
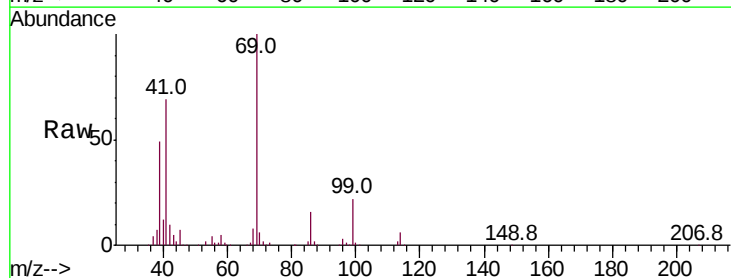
Time-->

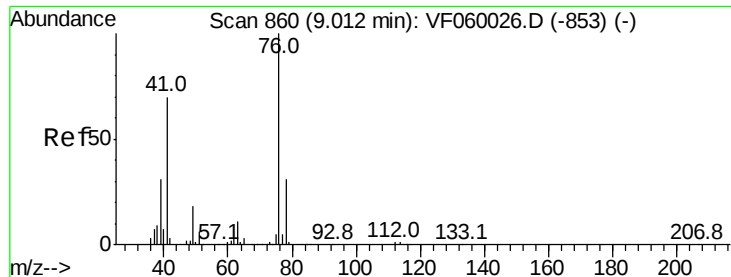
8.70 8.80 8.90

8.76

50000

40000





#57

1,3-Dichloropropane

Concen: 52.356 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.02 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

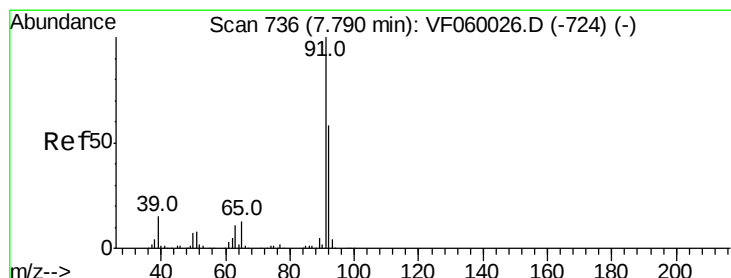
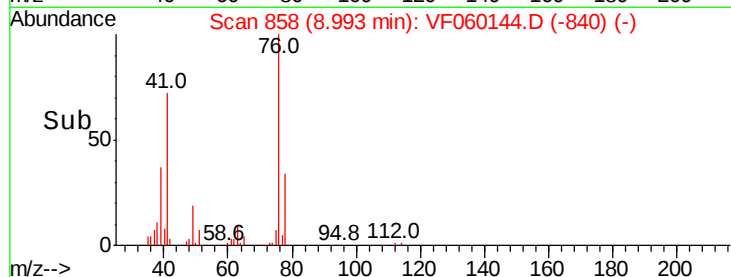
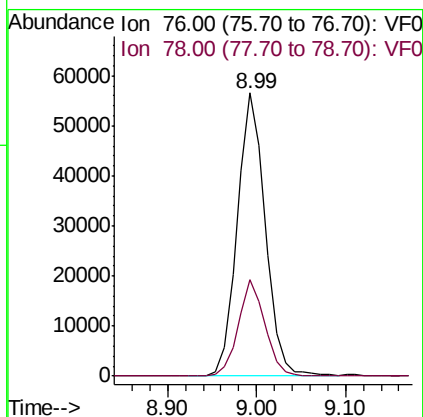
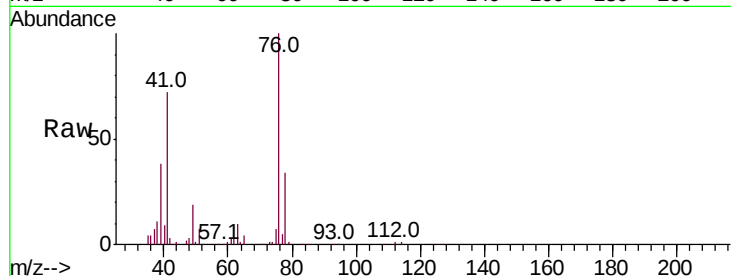
VSTDCCC050

Tot Ion: 76 Resp: 124014

Ion Ratio Lower Upper

76 100

78 34.3 25.2 37.8



#58

2-Chloroethyl Vinyl ether

Concen: 286.240 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF060144.D

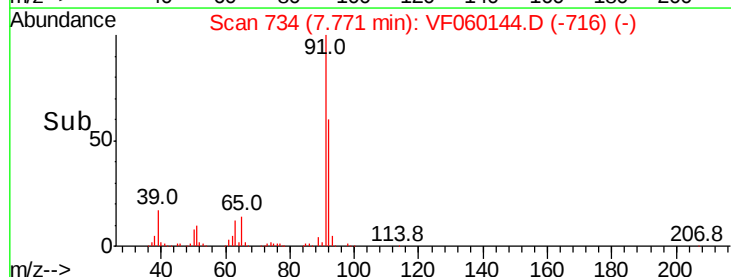
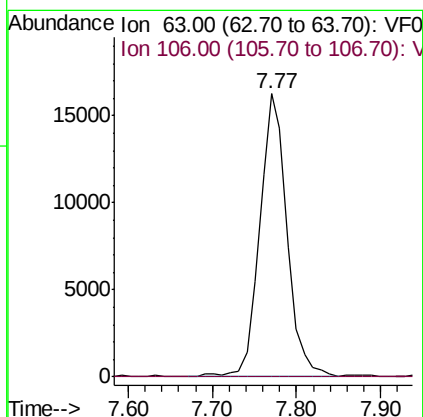
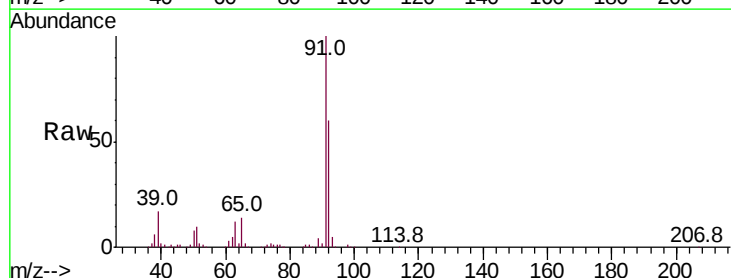
Acq: 28 Aug 2018 12:17

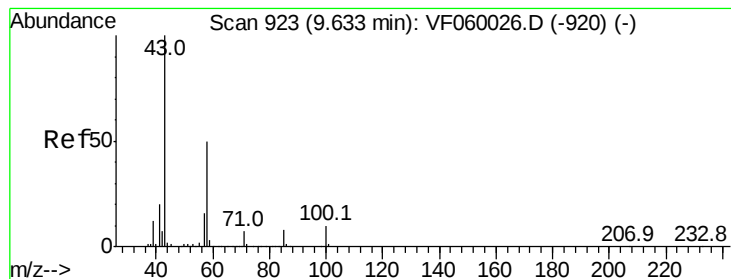
Tgt Ion: 63 Resp: 37062

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#59

2-Hexanone

Concen: 257.173 ug/l

RT: 9.62 min Scan# 922

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

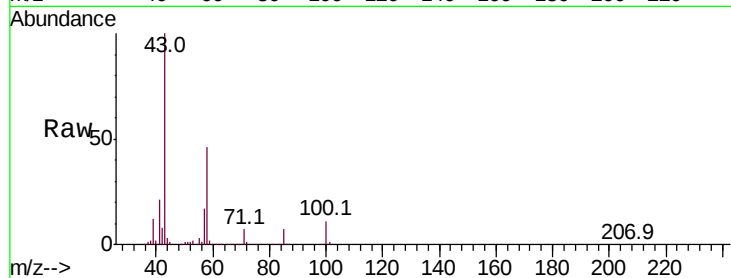
VSTDCCC050

Tot Ion: 43 Resp: 309337

Ion Ratio Lower Upper

43 100

58 46.3 23.4 70.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

100000

50000

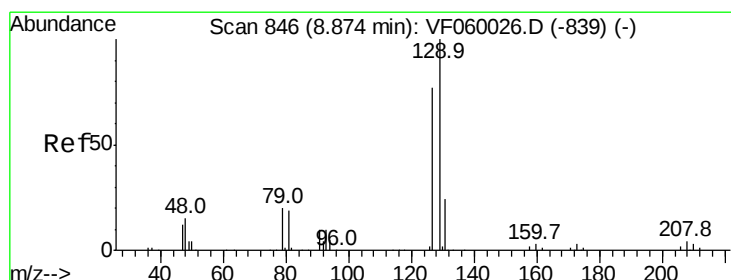
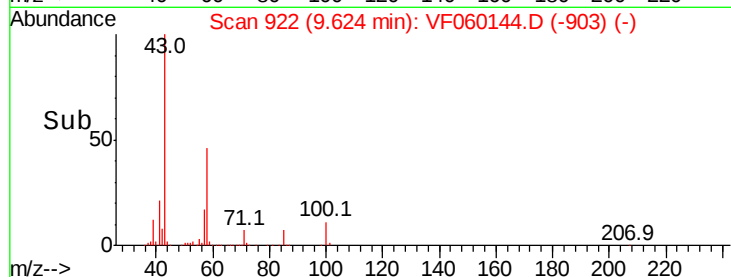
0

9.60

9.62

9.70

Time-->



#60

Dibromochloromethane

Concen: 55.844 ug/l

RT: 8.85 min Scan# 844

Delta R.T. -0.02 min

Lab File: VF060144.D

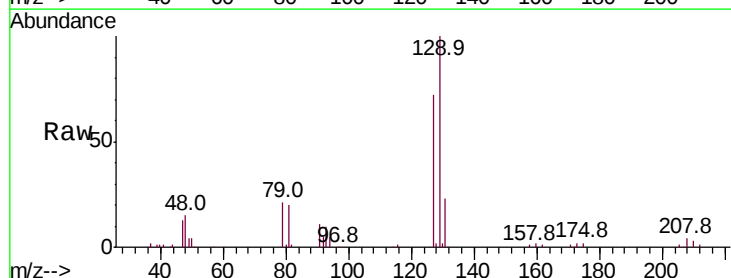
Acq: 28 Aug 2018 12:17

Tgt Ion: 129 Resp: 111094

Ion Ratio Lower Upper

129 100

127 71.9 38.6 115.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

60000

50000

40000

30000

20000

10000

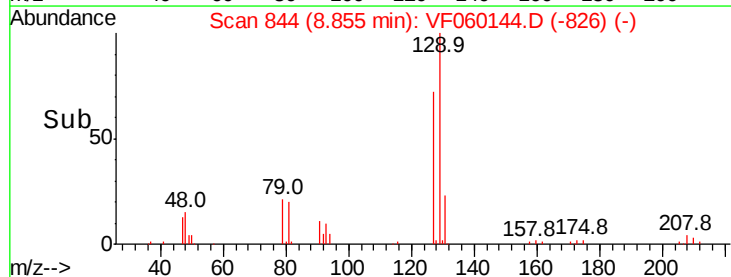
0

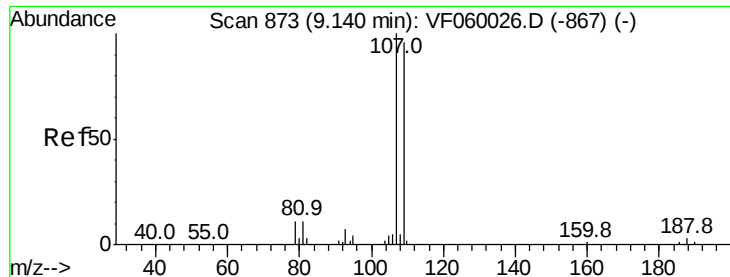
8.80

8.85

8.90

Time-->





#61

1,2-Dibromoethane

Concen: 49.896 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

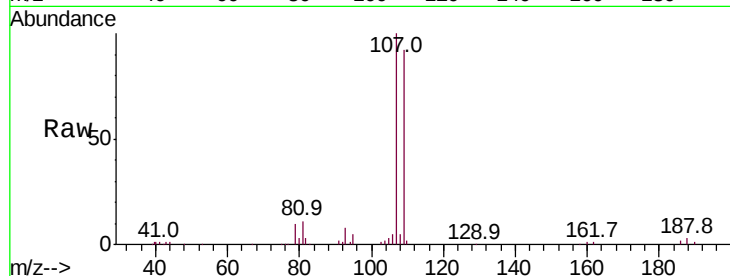
VSTDCCC050

Tot Ion:107 Resp: 78968

Ion Ratio Lower Upper

107 100

109 92.0 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.13

40000

30000

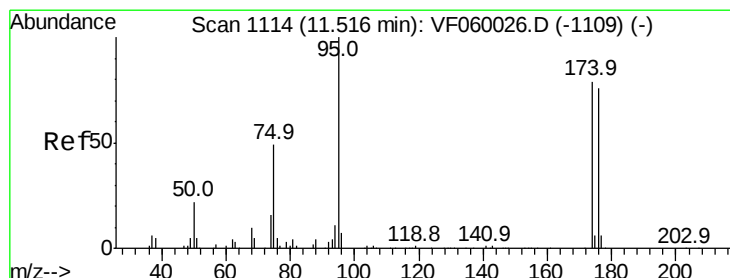
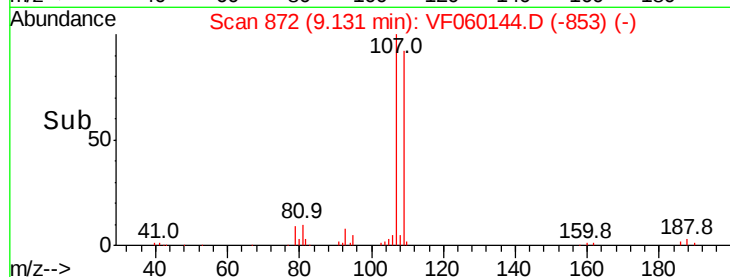
20000

10000

0

Time-->

9.00 9.10 9.20 9.30



#62

4-Bromofluorobenzene

Concen: 51.863 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

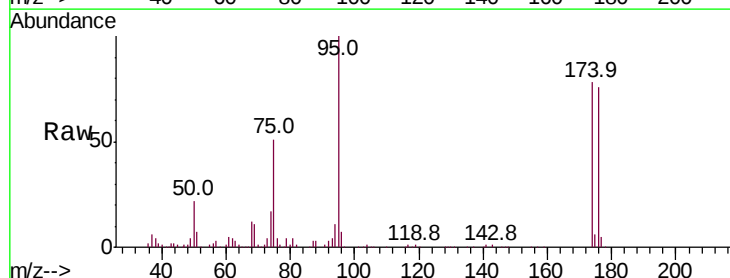
Tgt Ion: 95 Resp: 148861

Ion Ratio Lower Upper

95 100

174 77.7 0.0 158.4

176 75.7 0.0 153.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.51

120000

100000

80000

60000

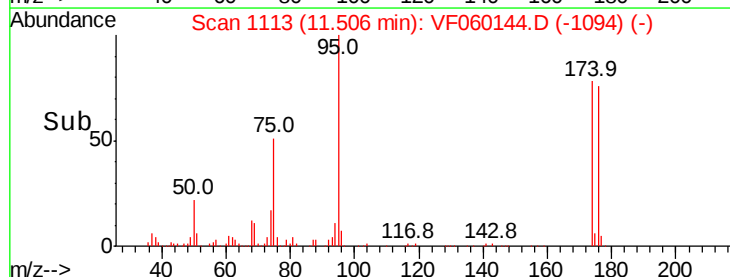
40000

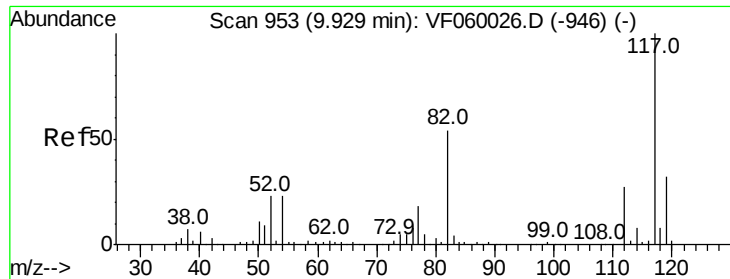
20000

0

Time-->

11.40 11.50 11.60

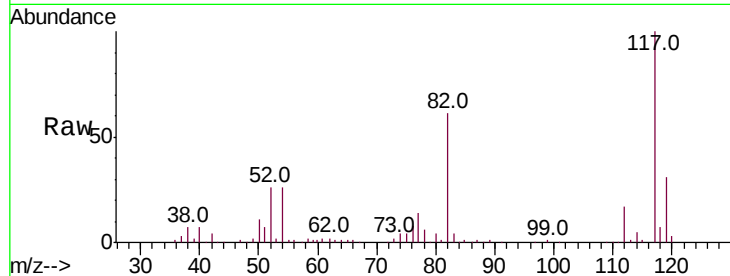




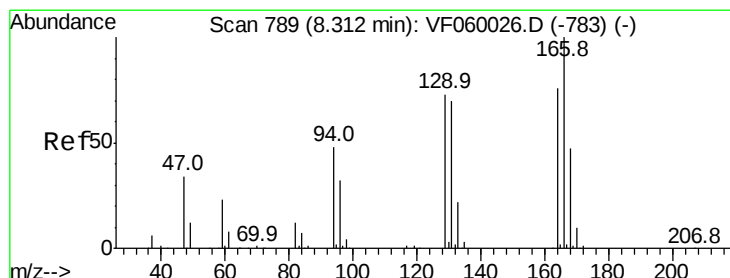
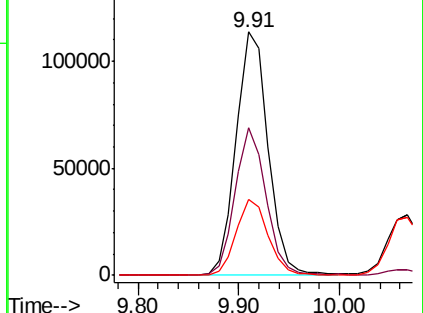
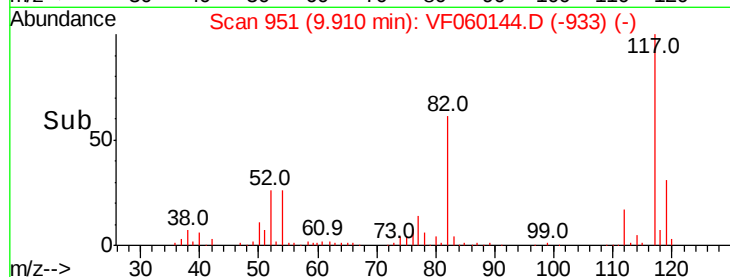
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.02 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 252116
Ion Ratio Lower Upper
117 100
82 60.7 43.6 65.4
119 31.1 25.6 38.4

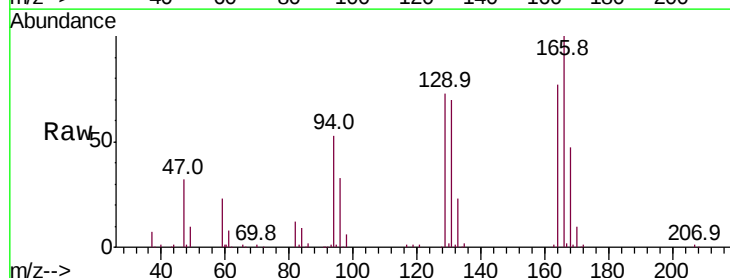


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

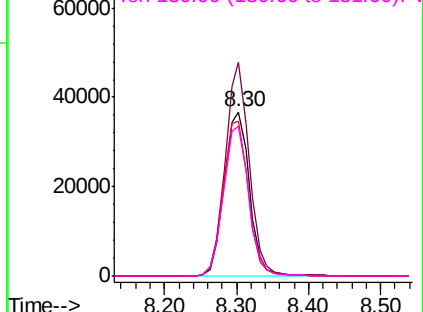
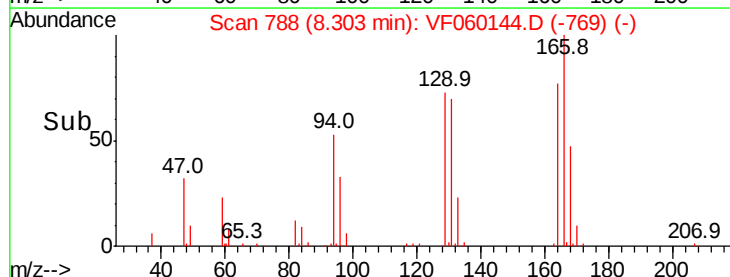


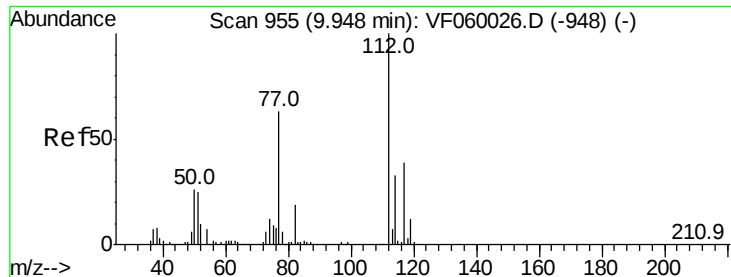
#64
Tetrachloroethene
Concen: 52.597 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Tgt Ion:164 Resp: 89329
Ion Ratio Lower Upper
164 100
166 130.2 104.7 157.1
129 94.7 77.0 115.4
131 91.5 72.9 109.3



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





#65

Chlorobenzene

Concen: 53.234 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

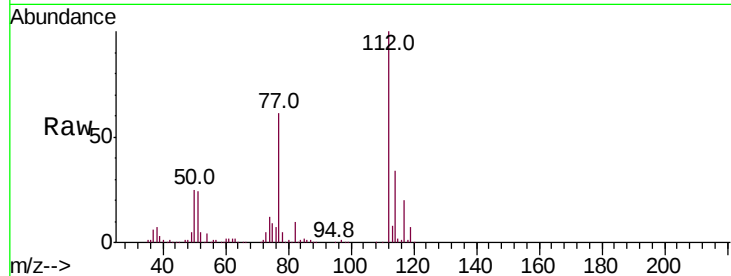
VSTDCCC050

Tot Ion:112 Resp: 253431

Ion Ratio Lower Upper

112 100

114 33.6 26.2 39.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

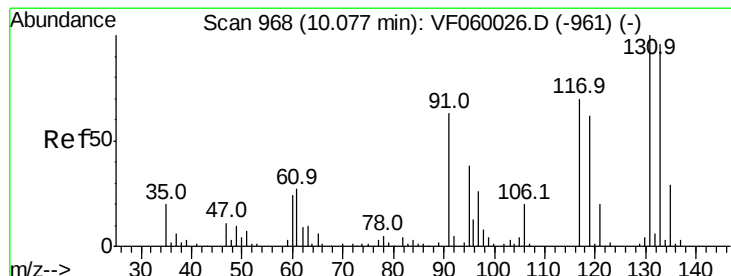
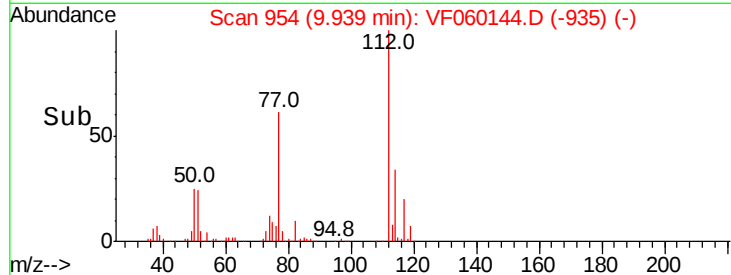
9.94

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 54.382 ug/l

RT: 10.07 min Scan# 967

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

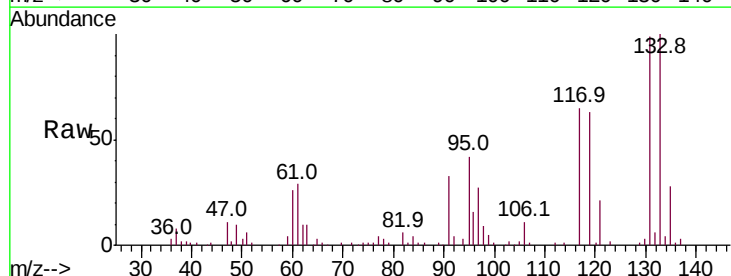
Tgt Ion:131 Resp: 98195

Ion Ratio Lower Upper

131 100

133 101.0 48.2 144.6

119 63.8 31.4 94.2



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

60000

50000

40000

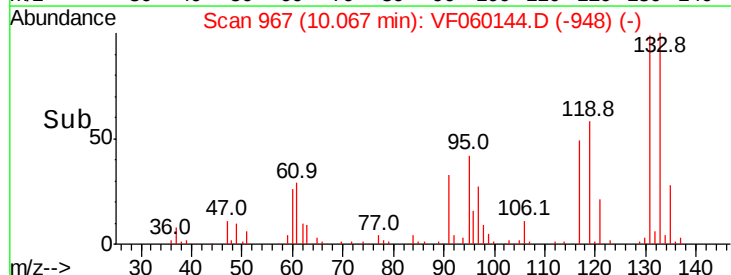
30000

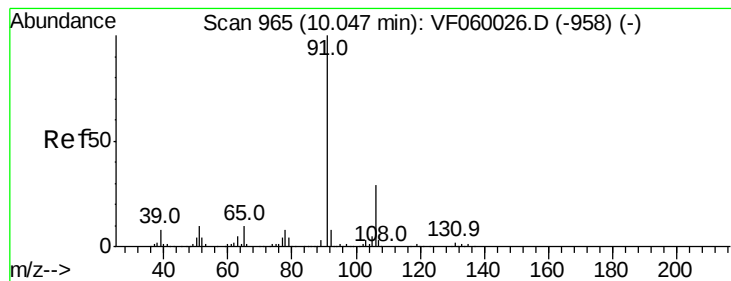
20000

10000

0

Time-->





#67

Ethyl Benzene

Concen: 56.117 ug/l

RT: 10.04 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

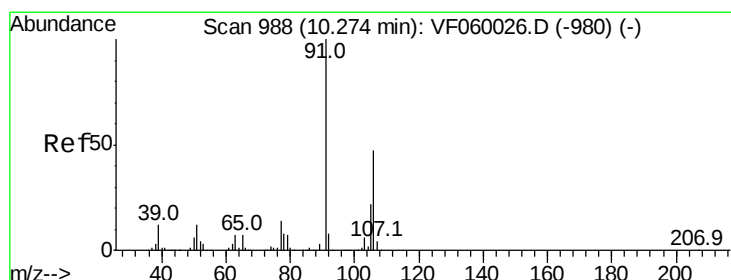
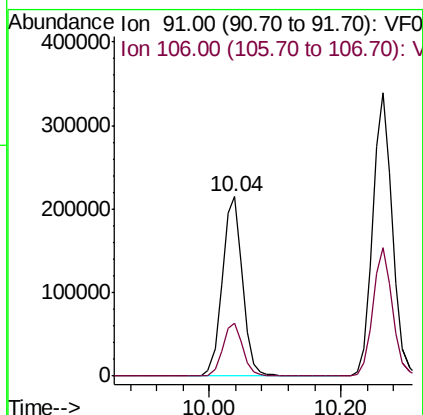
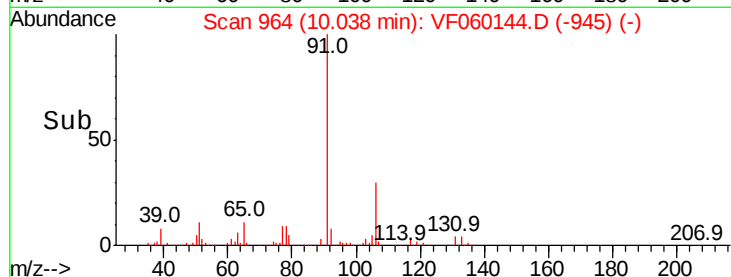
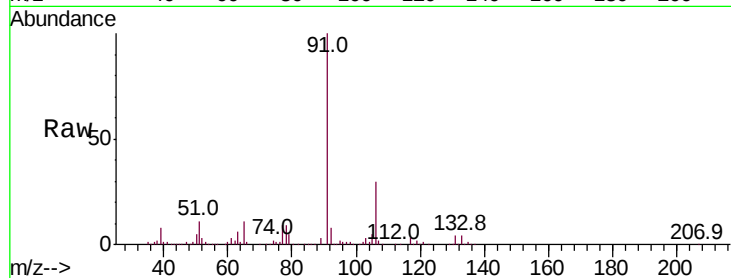
VSTDCCC050

Tot Ion: 91 Resp: 460972

Ion Ratio Lower Upper

91 100

106 29.8 23.6 35.4



#68

m/p-Xylenes

Concen: 121.521 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF060144.D

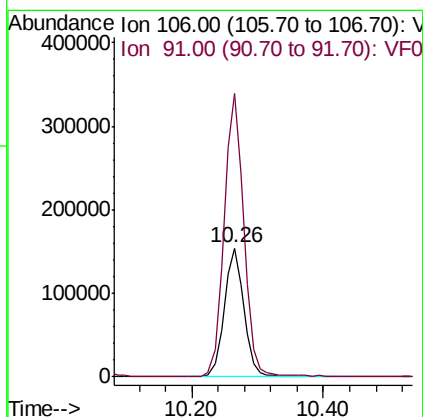
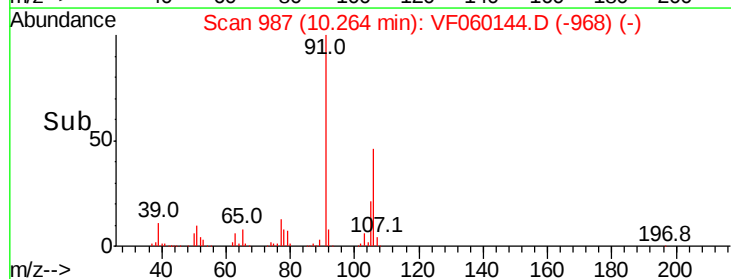
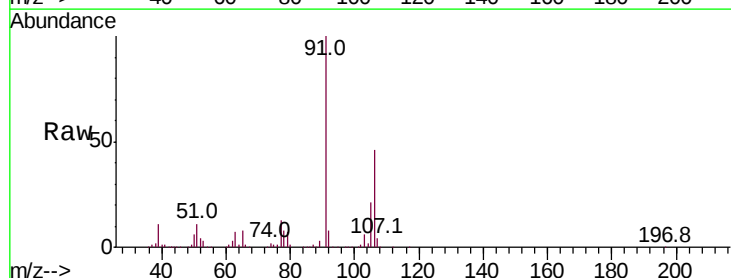
Acq: 28 Aug 2018 12:17

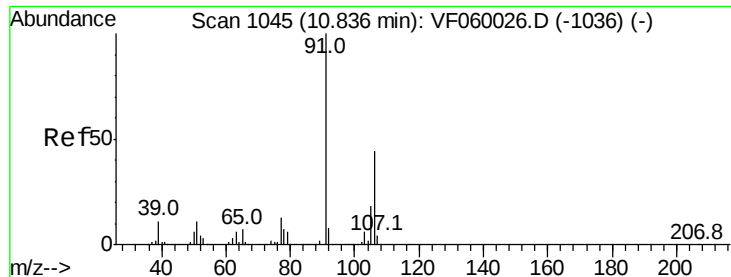
Tgt Ion: 106 Resp: 320148

Ion Ratio Lower Upper

106 100

91 219.6 171.8 257.8

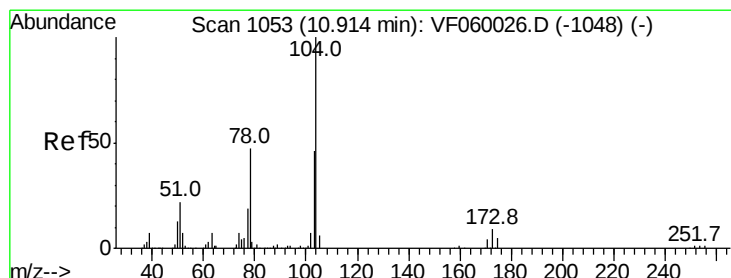
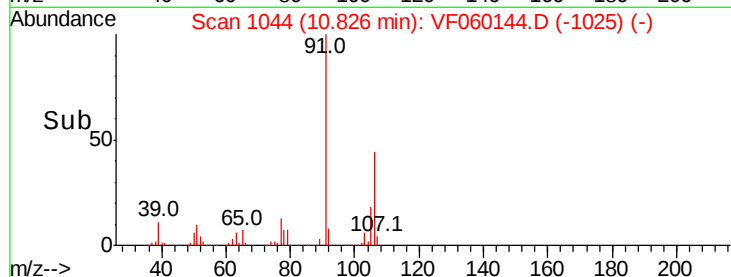
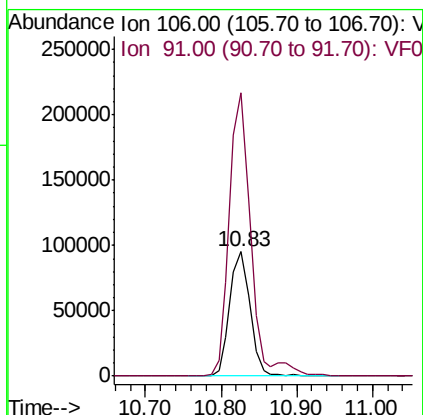
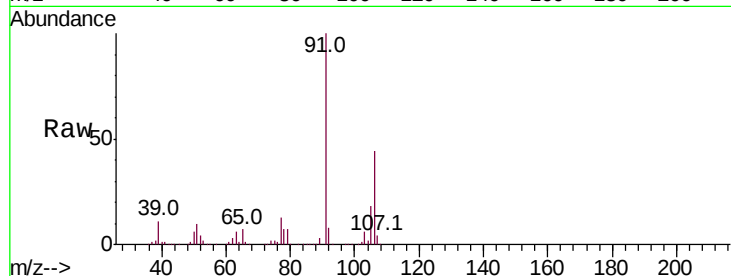




#69
o-Xylene
Concen: 55.735 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

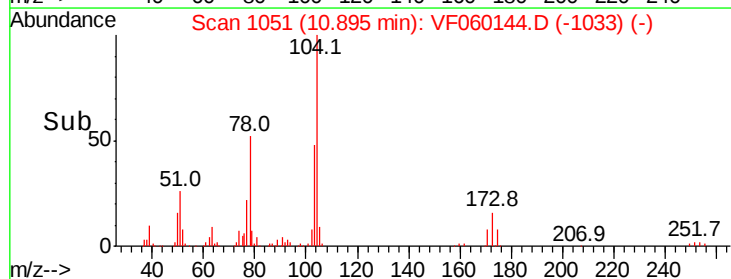
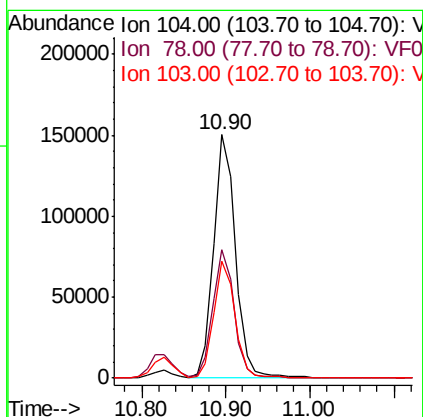
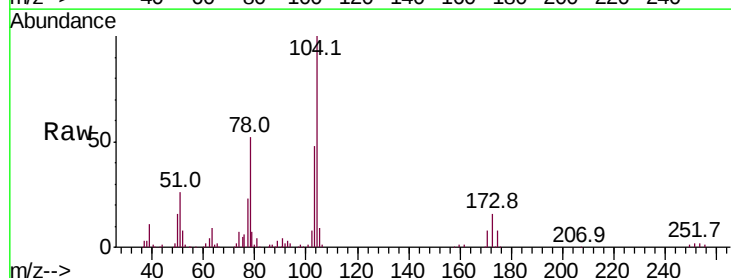
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

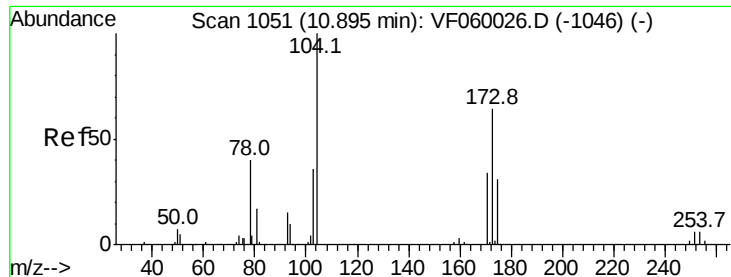
Tot Ion:106 Resp: 179371
Ion Ratio Lower Upper
106 100
91 227.4 112.5 337.5



#70
Styrene
Concen: 54.712 ug/l
RT: 10.90 min Scan# 1051
Delta R.T. -0.02 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Tgt Ion:104 Resp: 270143
Ion Ratio Lower Upper
104 100
78 52.5 38.0 57.0
103 48.1 37.6 56.4

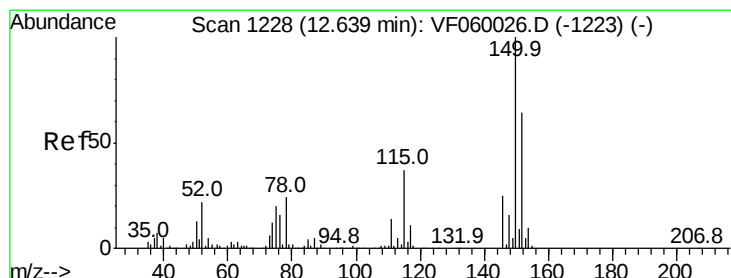
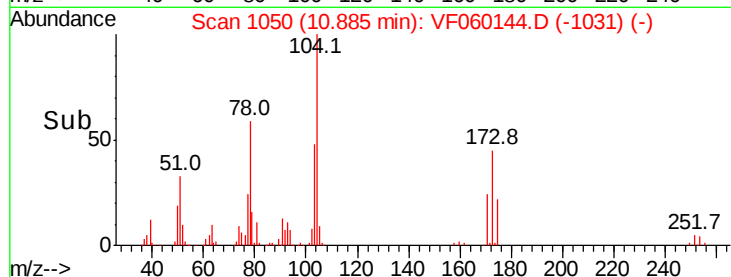
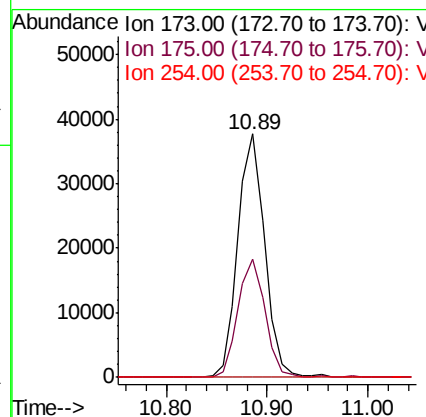
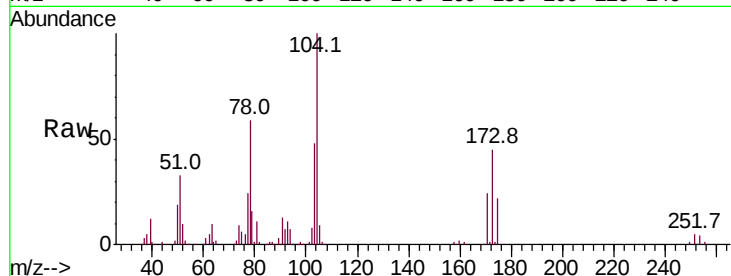




#71
Bromoform
Concen: 55.444 ug/l
RT: 10.89 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

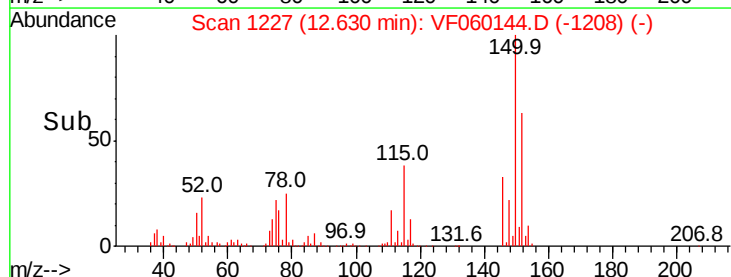
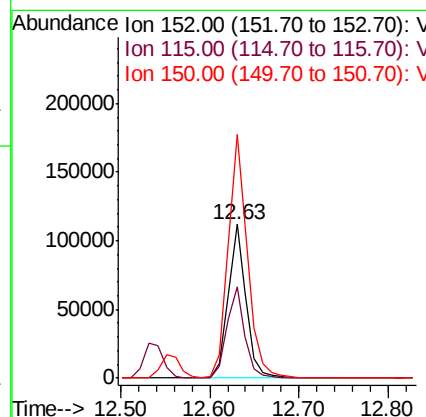
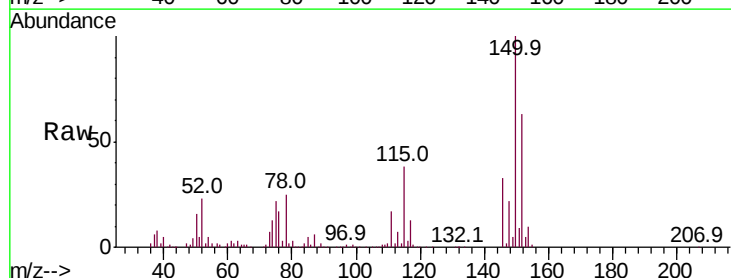
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

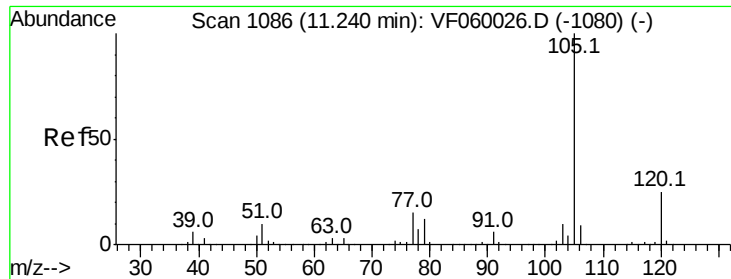
Tot Ion:173 Resp: 69847
Ion Ratio Lower Upper
173 100
175 48.5 24.7 74.1
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.01 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Tgt Ion:152 Resp: 159440
Ion Ratio Lower Upper
152 100
115 59.5 28.6 85.9
150 158.3 0.0 312.0

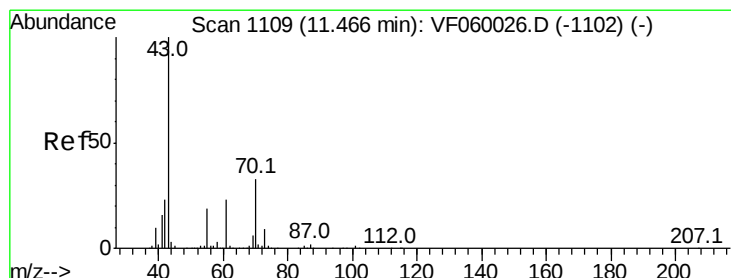
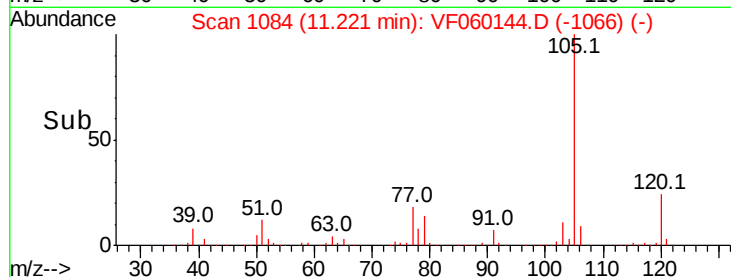
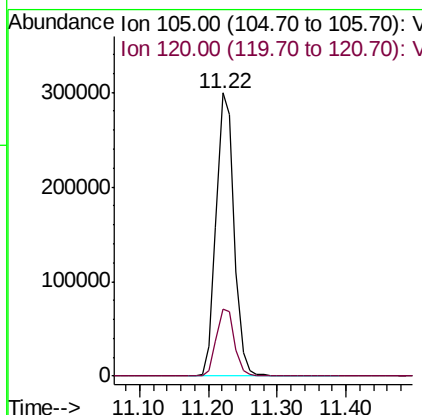
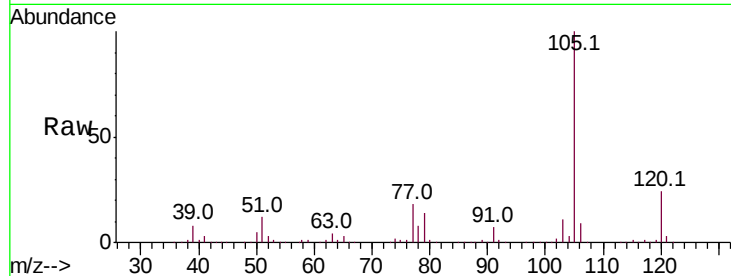




#73
Isopropylbenzene
Concen: 56.672 ug/l
RT: 11.22 min Scan# 1084
Delta R.T. -0.02 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

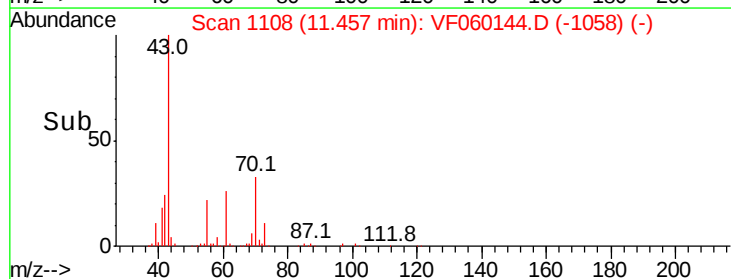
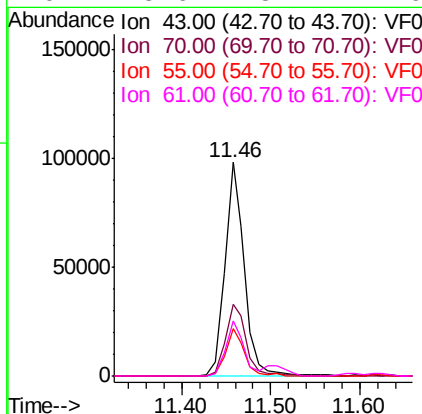
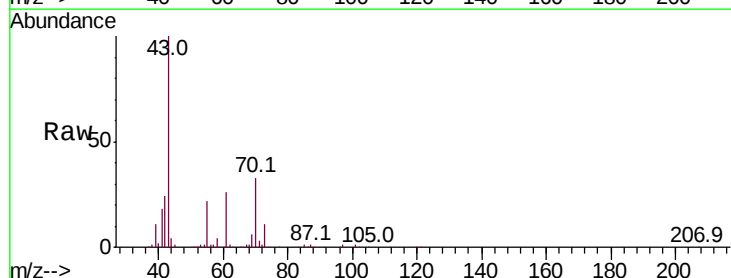
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

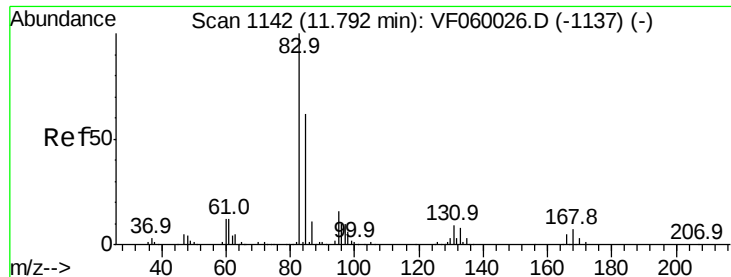
Tot Ion:105 Resp: 543901
Ion Ratio Lower Upper
105 100
120 23.7 12.7 38.0



#74
N-ethyl acetate
Concen: 50.394 ug/l
RT: 11.46 min Scan# 1108
Delta R.T. -0.01 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Tgt Ion: 43 Resp: 150332
Ion Ratio Lower Upper
43 100
70 33.4 26.4 39.6
55 22.4 15.0 22.4#
61 25.6 18.4 27.6





#75

1,1,2,2-Tetrachloroethane

Concen: 47.649 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

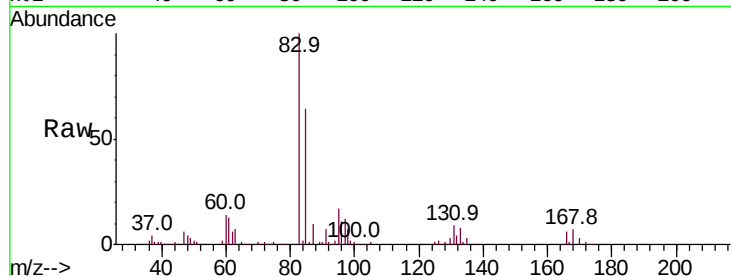
Tot Ion: 83 Resp: 99872

Ion Ratio Lower Upper

83 100

131 9.1 4.5 13.7

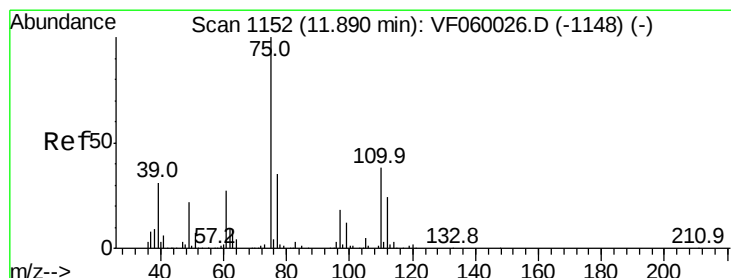
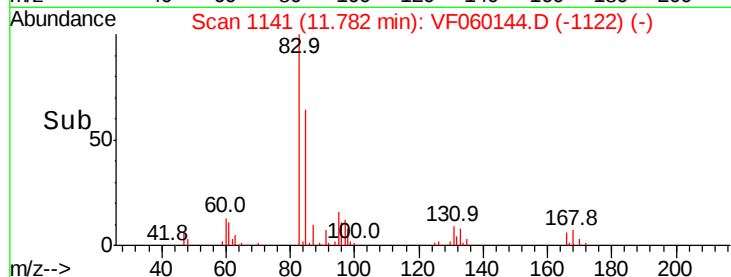
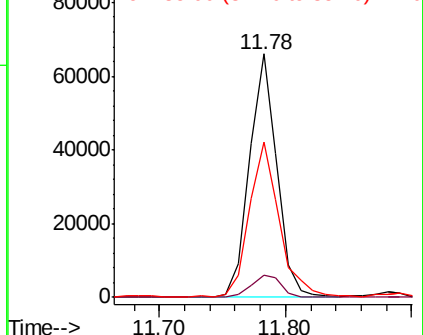
85 63.8 31.3 93.9



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 47.638 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.01 min

Lab File: VF060144.D

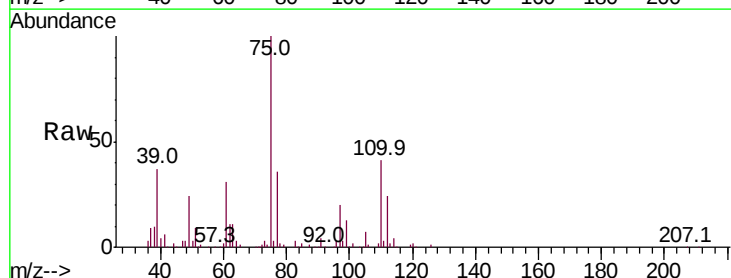
Acq: 28 Aug 2018 12:17

Tgt Ion: 75 Resp: 77433

Ion Ratio Lower Upper

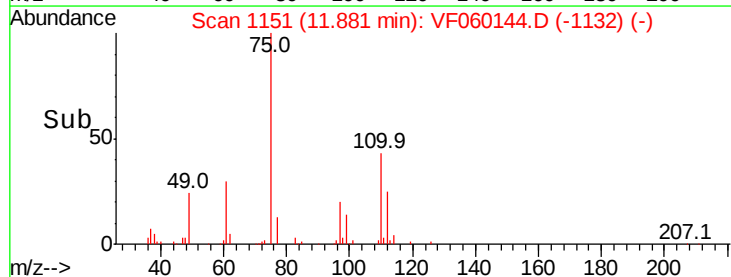
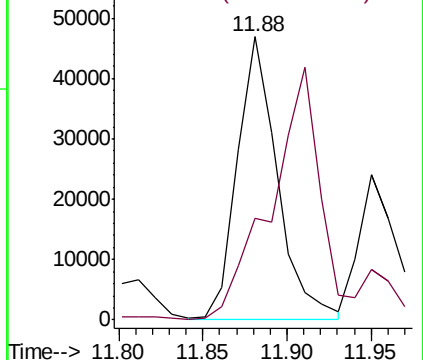
75 100

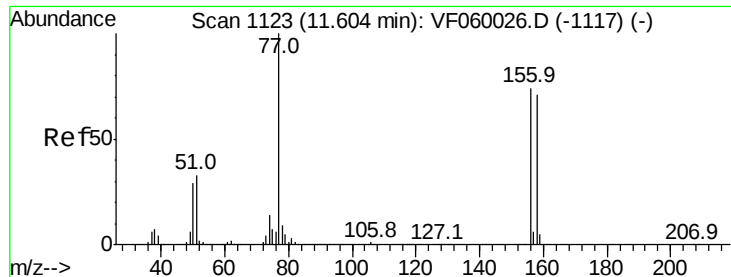
77 36.0 17.3 52.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 51.404 ug/l

RT: 11.60 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

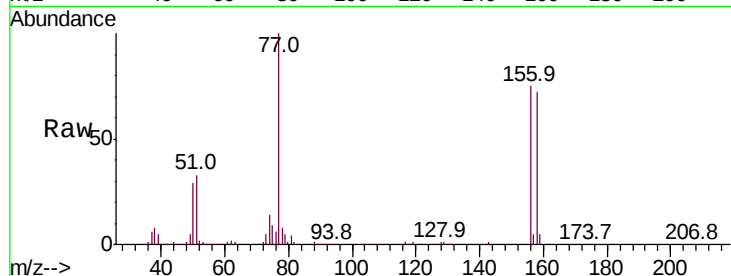
Tot Ion:156 Resp: 134167

Ion Ratio Lower Upper

156 100

77 133.6 68.0 204.0

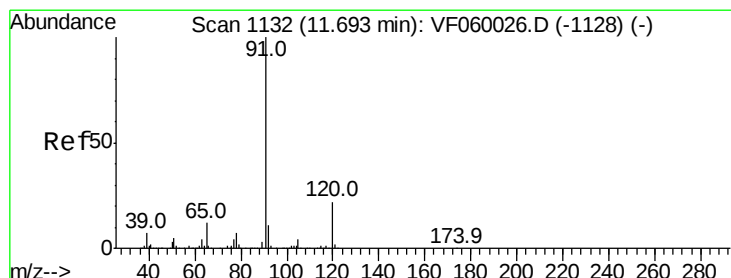
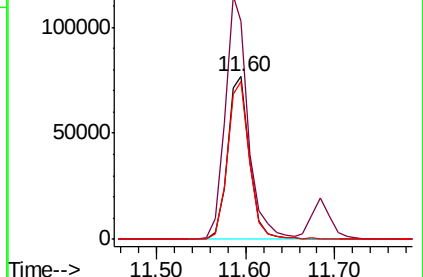
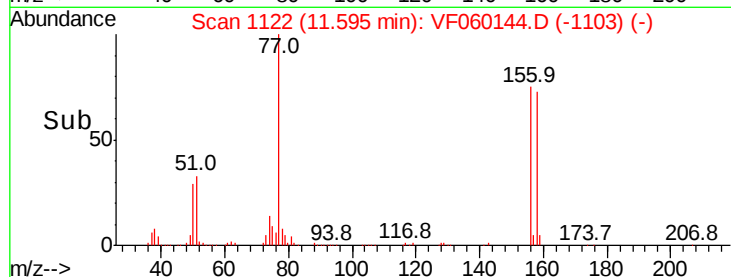
158 96.8 48.4 145.3



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 53.897 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF060144.D

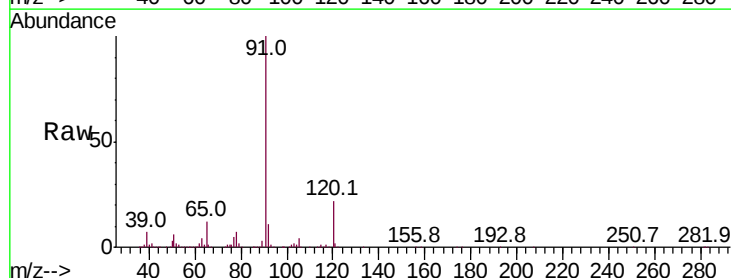
Acq: 28 Aug 2018 12:17

Tgt Ion: 91 Resp: 638433

Ion Ratio Lower Upper

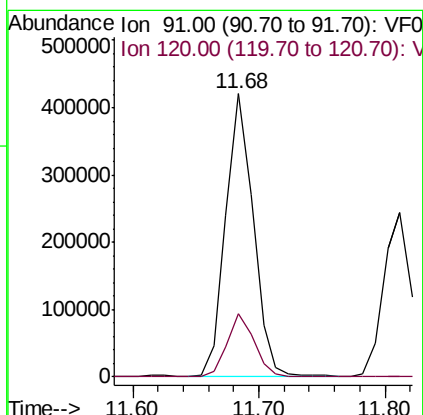
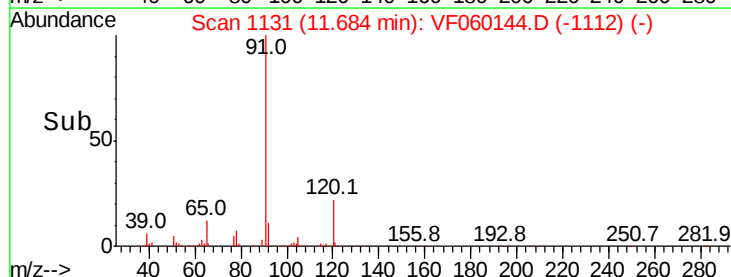
91 100

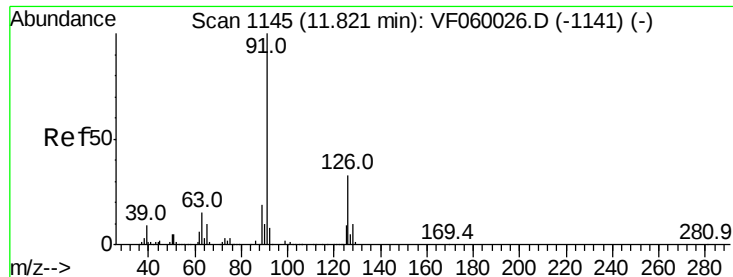
120 22.4 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 53.975 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

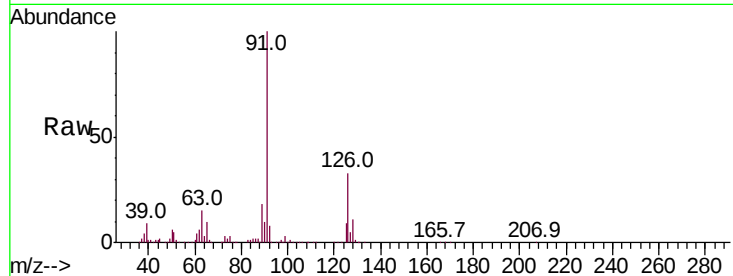
VSTDCCC050

Tot Ion: 91 Resp: 375958

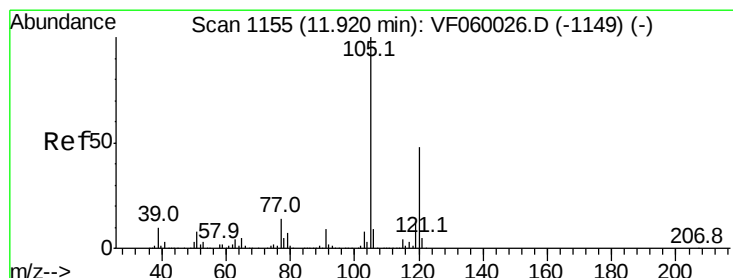
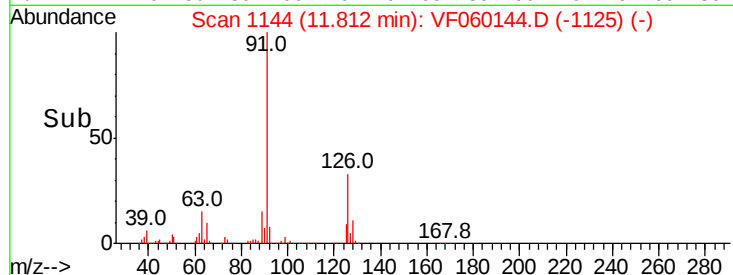
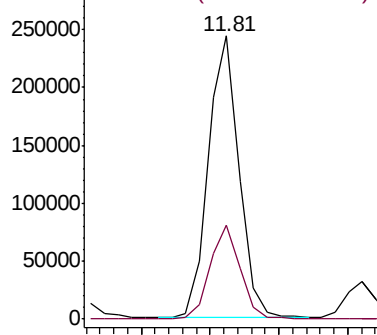
Ion Ratio Lower Upper

91 100

126 33.0 16.6 49.7



Abundance Ion 91.00 (90.70 to 91.70): VF060026.D (-1141) (-)



#80

1,3,5-Trimethylbenzene

Concen: 53.638 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VF060144.D

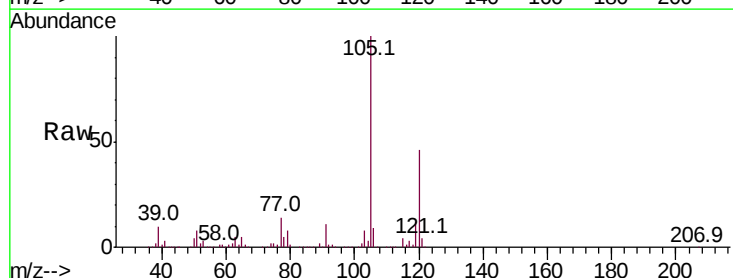
Acq: 28 Aug 2018 12:17

Tgt Ion:105 Resp: 448488

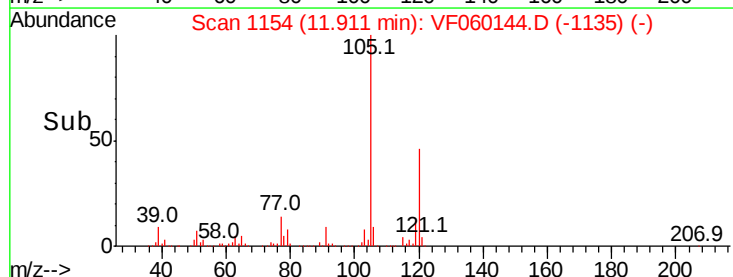
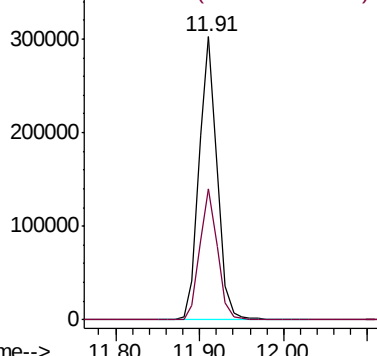
Ion Ratio Lower Upper

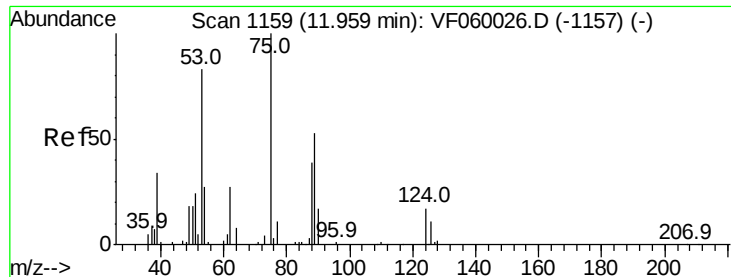
105 100

120 46.3 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): VF060026.D (-1149) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 66.864 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

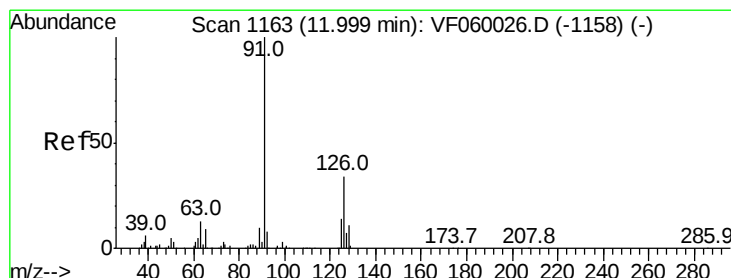
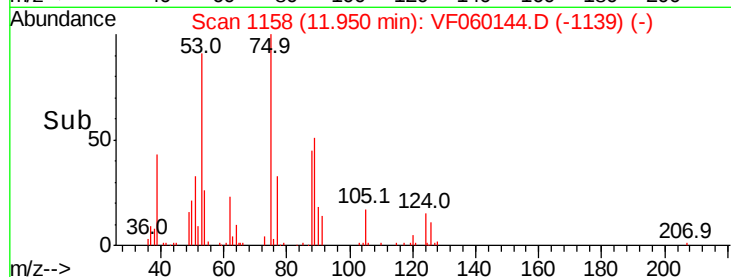
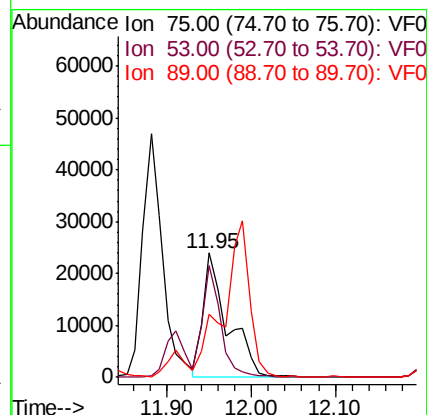
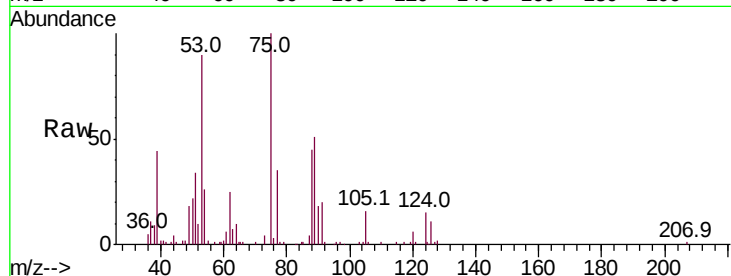
Tot Ion: 75 Resp: 49727

Ion Ratio Lower Upper

75 100

53 90.0 66.2 99.4

89 51.1 42.8 64.2



#82

4-Chlorotoluene

Concen: 55.234 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. -0.01 min

Lab File: VF060144.D

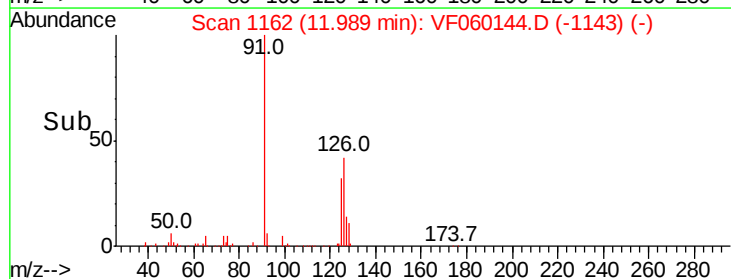
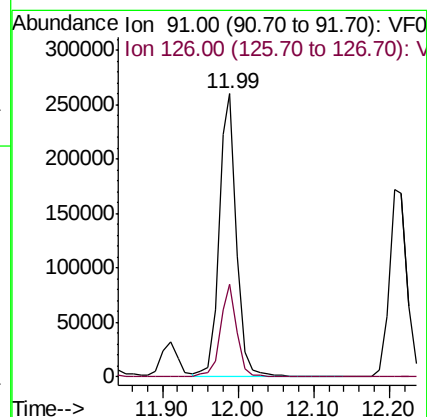
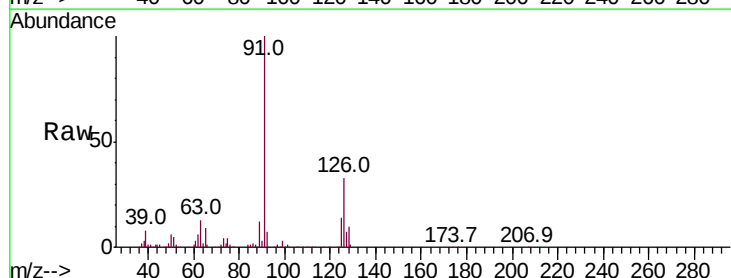
Acq: 28 Aug 2018 12:17

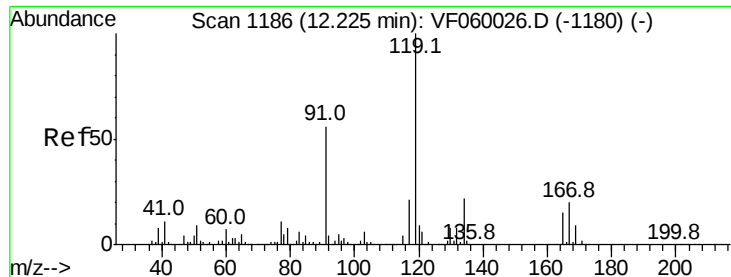
Tgt Ion: 91 Resp: 417693

Ion Ratio Lower Upper

91 100

126 32.7 17.0 50.9





#83

tert-Butylbenzene

Concen: 55.797 ug/l

RT: 12.22 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

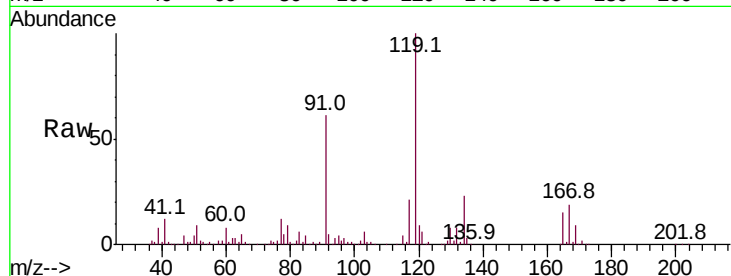
Tot Ion:119 Resp: 455031

Ion Ratio Lower Upper

119 100

91 60.5 28.1 84.3

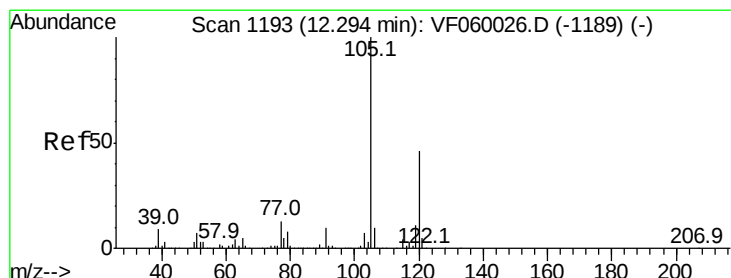
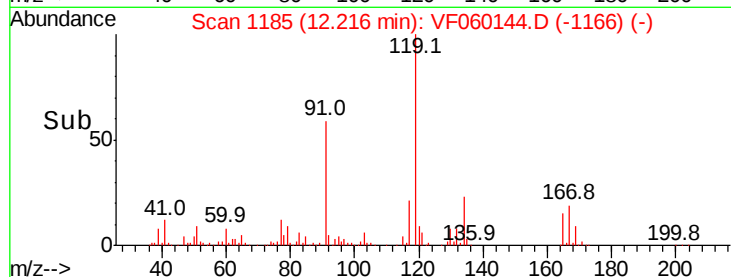
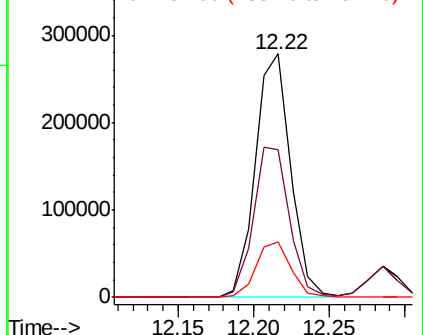
134 22.9 11.1 33.3



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: 52.189 ug/l

RT: 12.29 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060144.D

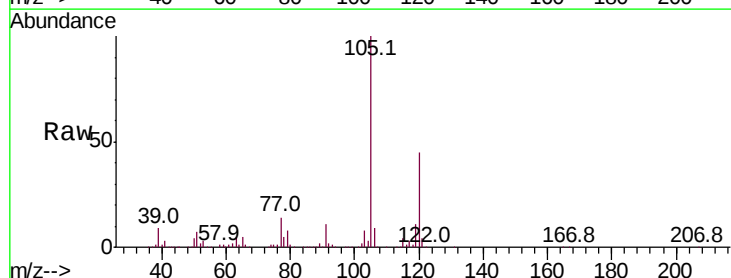
Acq: 28 Aug 2018 12:17

Tgt Ion:105 Resp: 463919

Ion Ratio Lower Upper

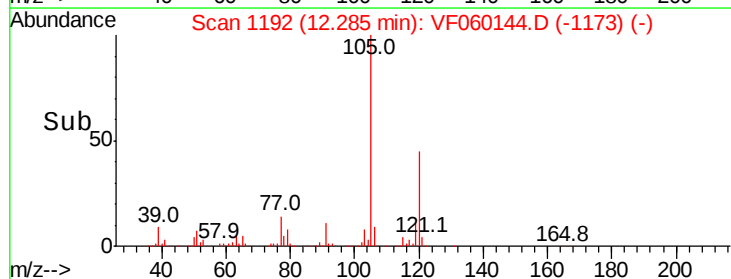
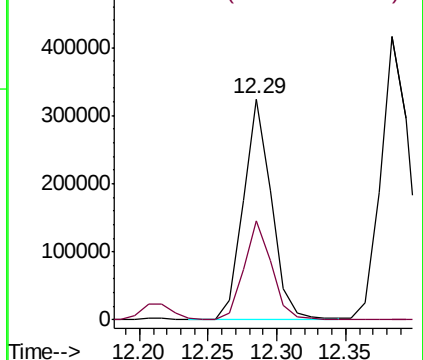
105 100

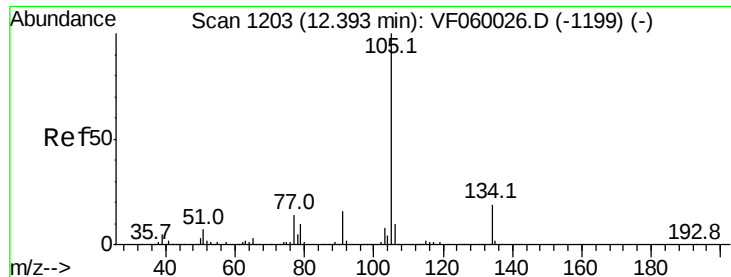
120 44.6 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 53.226 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

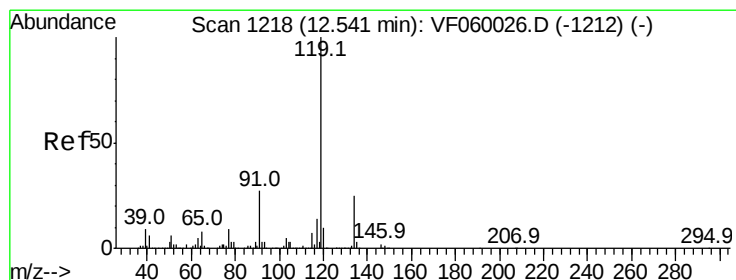
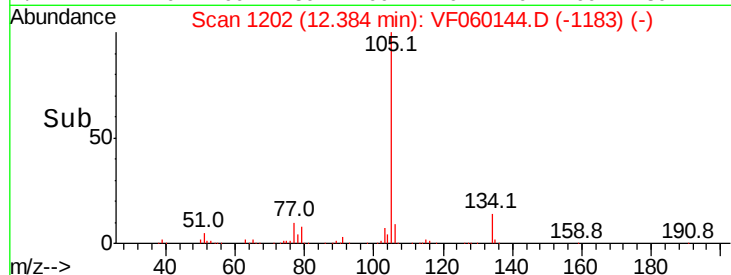
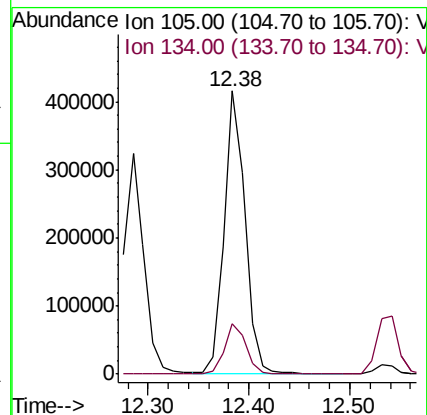
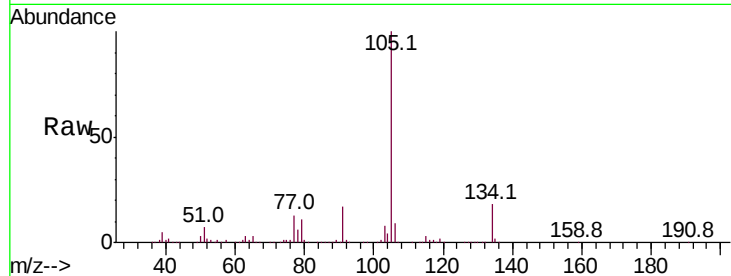
VSTDCCC050

Tot Ion:105 Resp: 604286

Ion Ratio Lower Upper

105 100

134 17.8 9.3 27.9



#86

p-Isopropyltoluene

Concen: 55.579 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

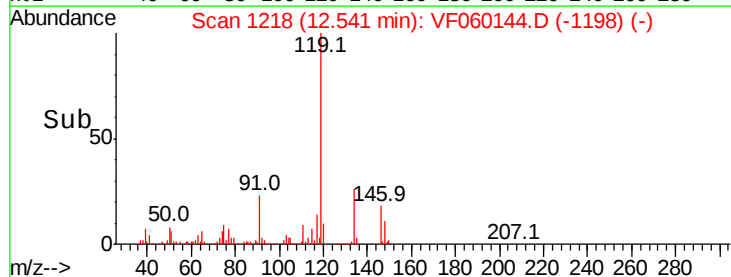
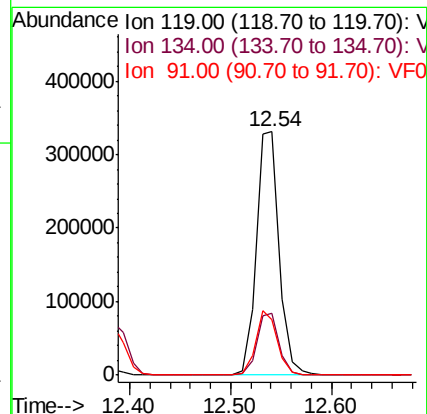
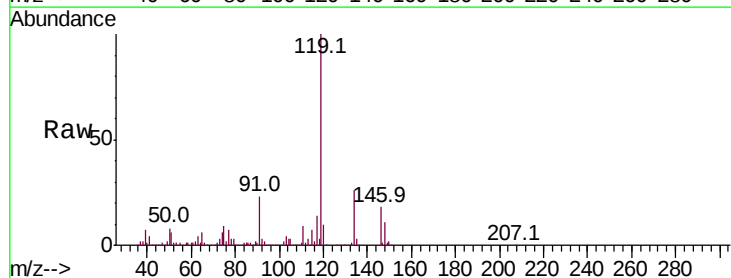
Tgt Ion:119 Resp: 523494

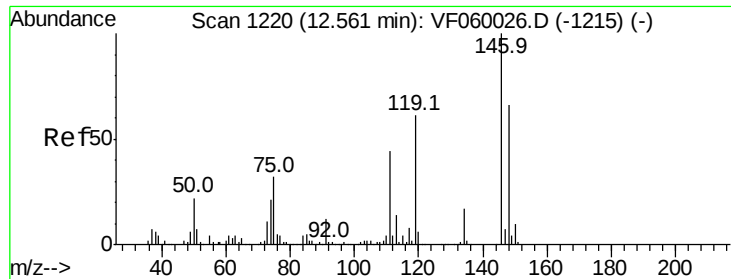
Ion Ratio Lower Upper

119 100

134 25.5 12.4 37.2

91 23.0 13.5 40.4

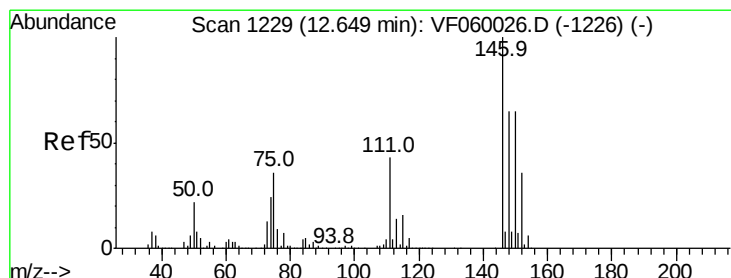
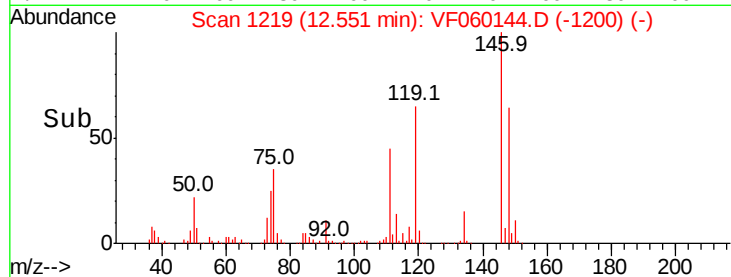
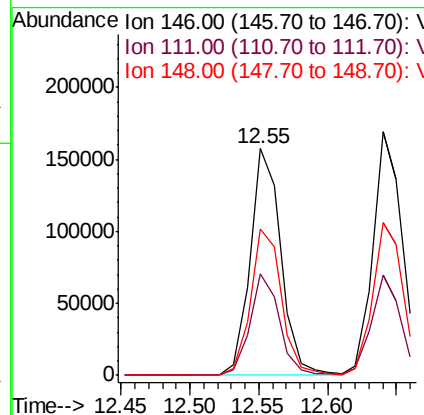
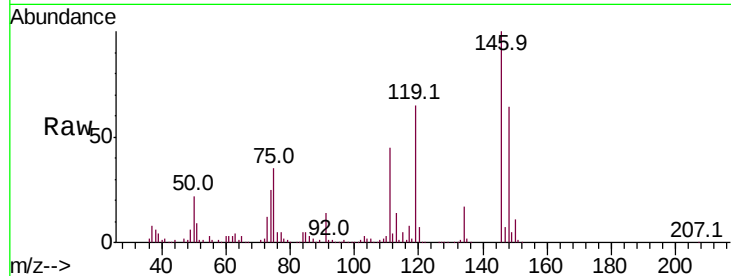




#87
 1,3-Dichlorobenzene
 Concen: 51.005 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.01 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

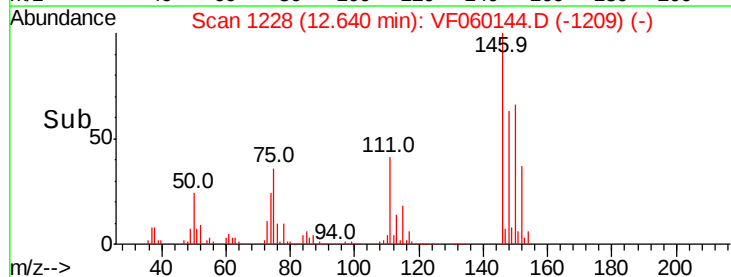
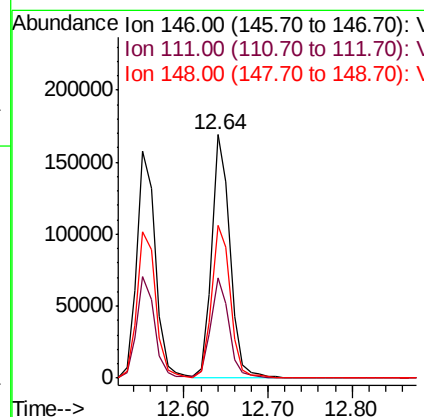
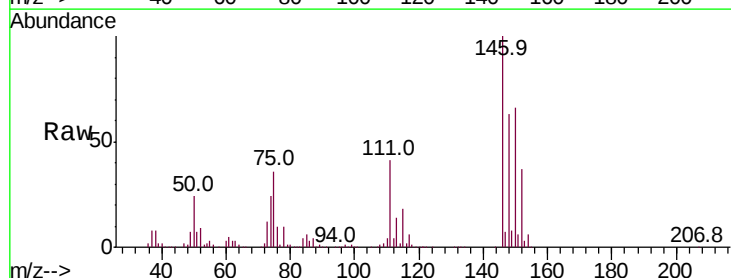
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

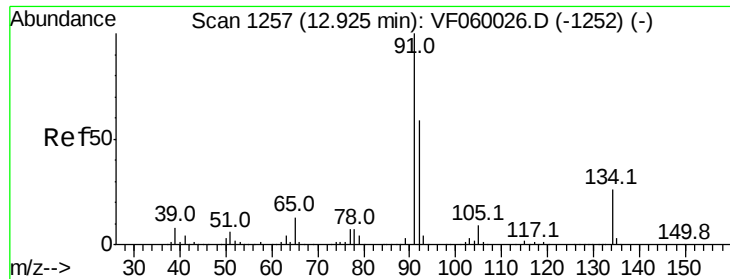
Tot Ion:146 Resp: 246144
 Ion Ratio Lower Upper
 146 100
 111 44.9 21.9 65.5
 148 64.4 32.9 98.7



#88
 1,4-Dichlorobenzene
 Concen: 53.123 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

Tgt Ion:146 Resp: 254778
 Ion Ratio Lower Upper
 146 100
 111 41.0 21.6 64.8
 148 62.7 32.3 96.8





#89

n-Butylbenzene

Concen: 57.326 ug/l

RT: 12.92 min Scan# 1256

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

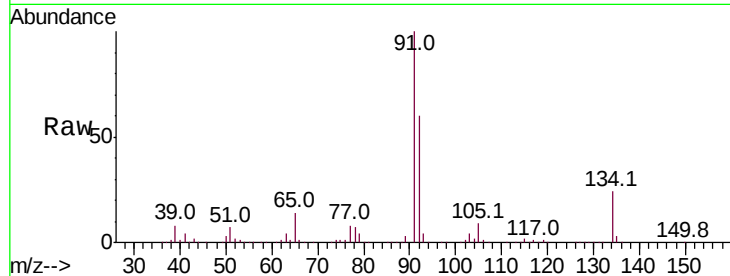
Tot Ion: 91 Resp: 524588

Ion Ratio Lower Upper

91 100

92 59.6 29.3 87.9

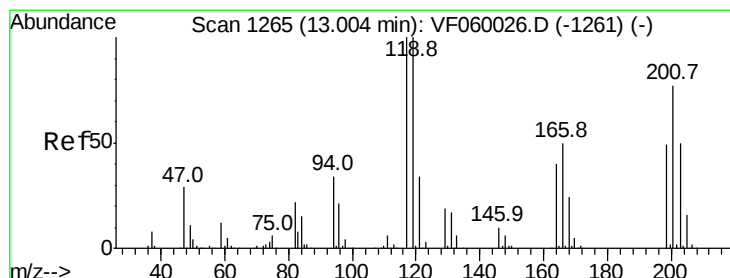
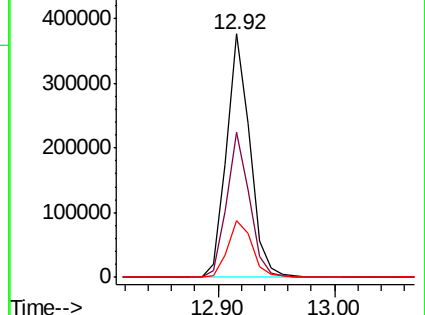
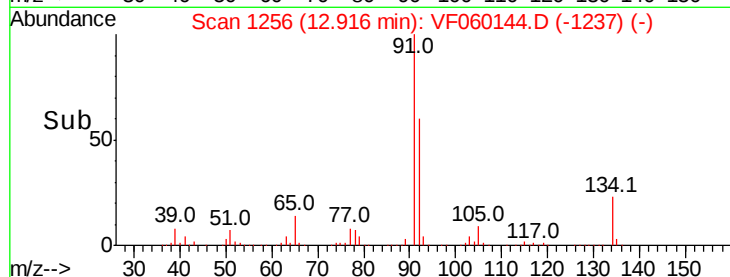
134 23.5 12.8 38.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 54.075 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VF060144.D

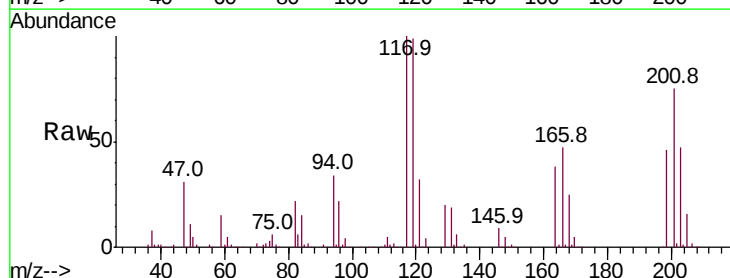
Acq: 28 Aug 2018 12:17

Tgt Ion: 117 Resp: 114453

Ion Ratio Lower Upper

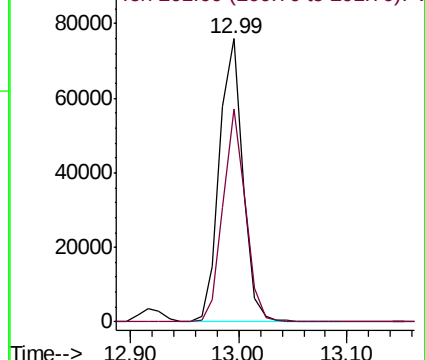
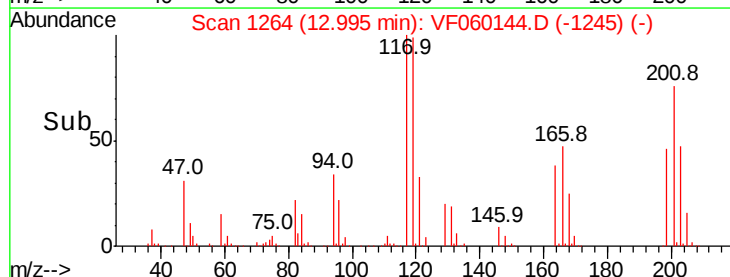
117 100

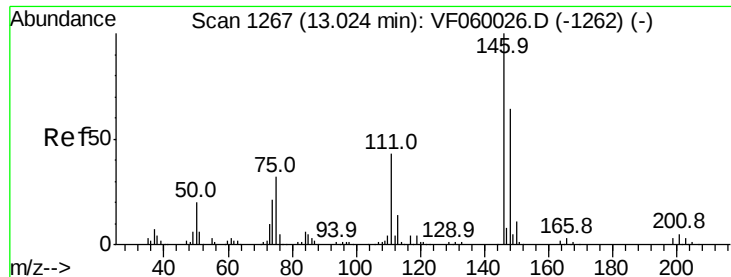
201 75.4 38.6 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 51.607 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

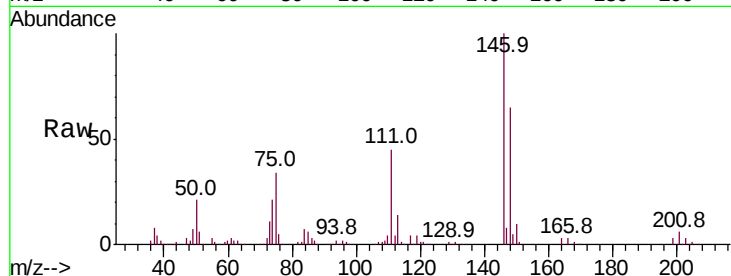
Tot Ion:146 Resp: 239517

Ion Ratio Lower Upper

146 100

111 44.5 21.6 64.6

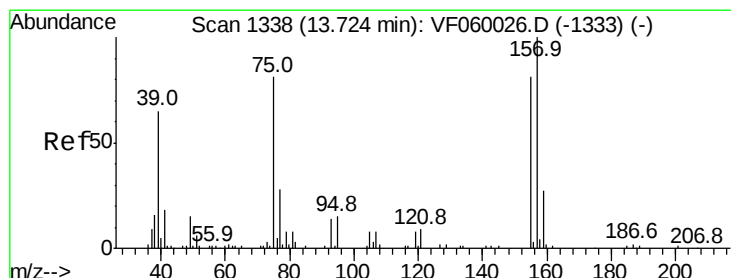
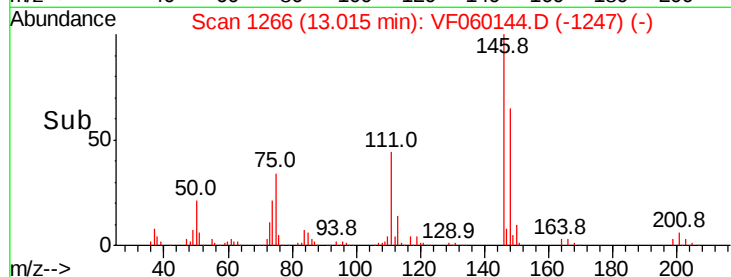
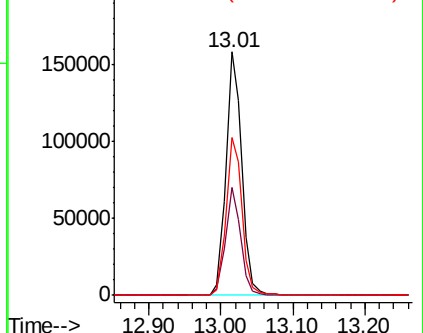
148 65.1 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 54.286 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. -0.01 min

Lab File: VF060144.D

Acq: 28 Aug 2018 12:17

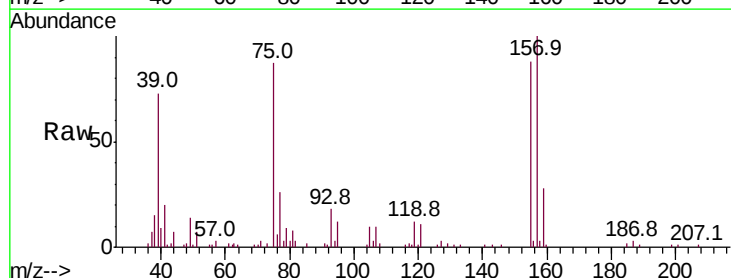
Tgt Ion: 75 Resp: 23252

Ion Ratio Lower Upper

75 100

155 100.9 49.8 149.3

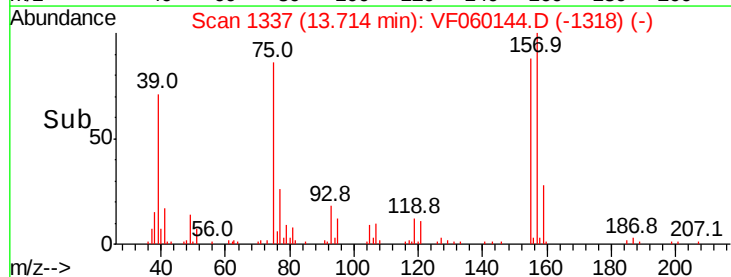
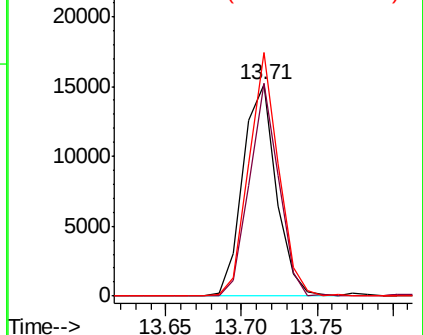
157 115.2 61.6 184.7

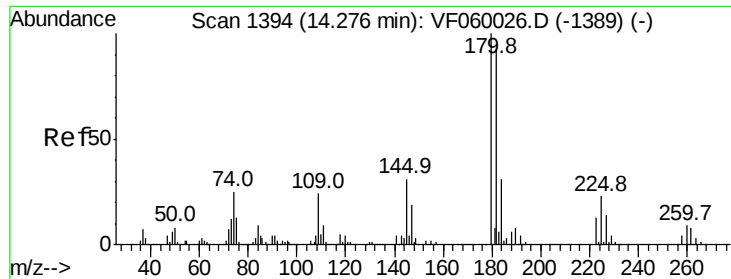


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

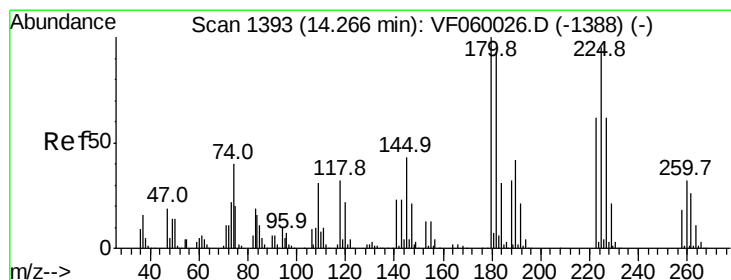
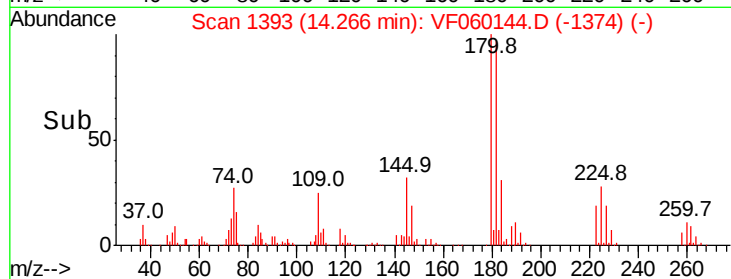
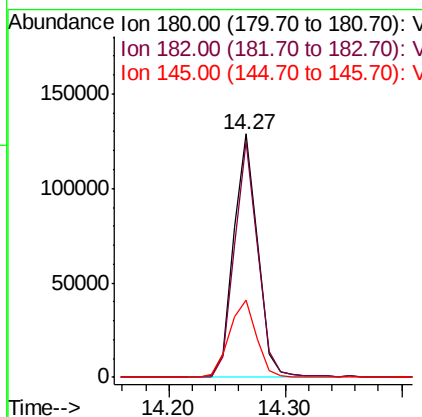
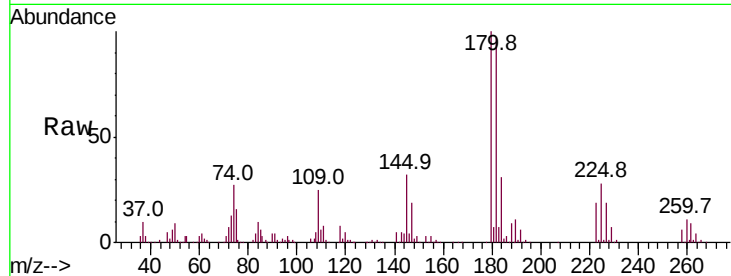




#93
 1,2,4-Trichlorobenzene
 Concen: 54.099 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

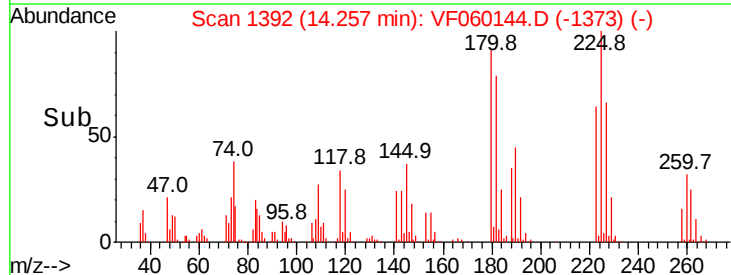
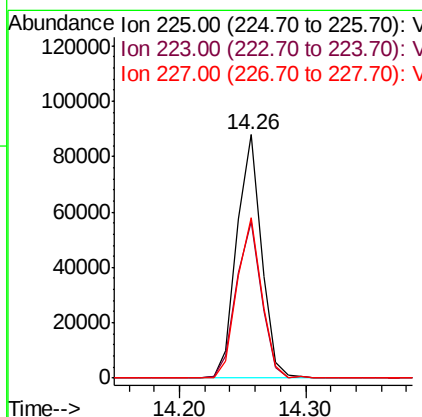
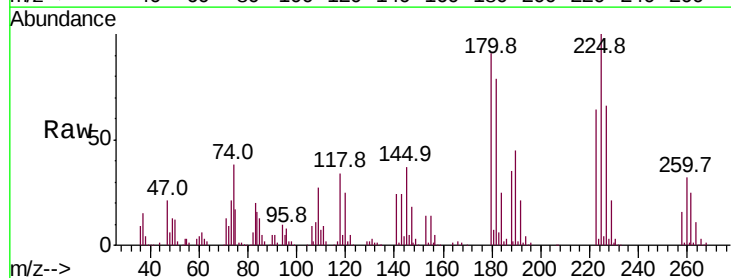
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

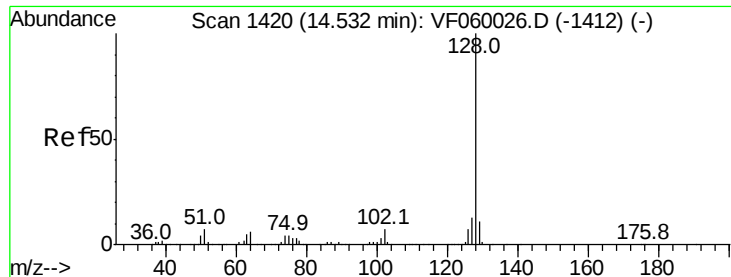
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	46.8	140.3
145	31.9	15.4	46.4



#94
 Hexachlorobutadiene
 Concen: 55.776 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF060144.D
 Acq: 28 Aug 2018 12:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.3	32.6	97.8
227	65.7	33.0	98.9

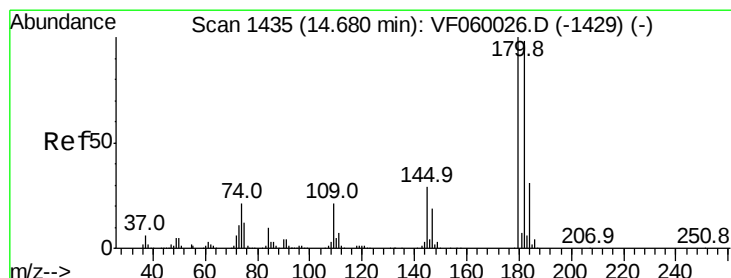
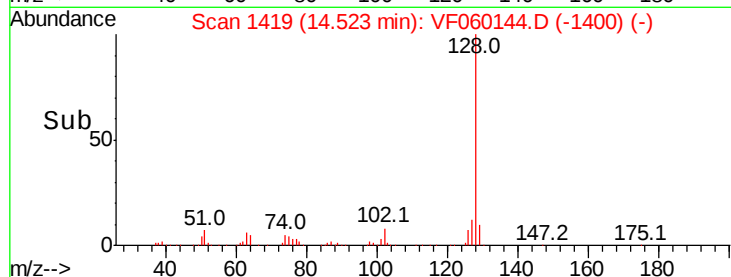
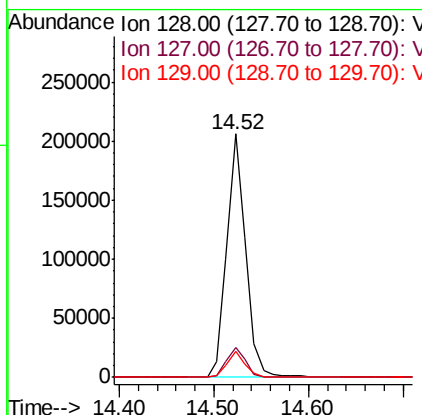
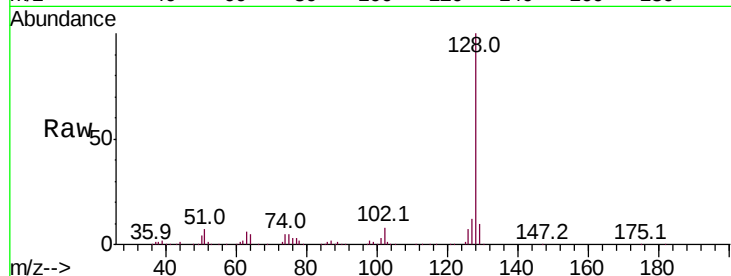




#95
Naphthalene
Concen: 48.164 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. -0.01 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 285085
Ion Ratio Lower Upper
128 100
127 12.2 10.4 15.6
129 10.5 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 53.267 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. -0.01 min
Lab File: VF060144.D
Acq: 28 Aug 2018 12:17

Tgt Ion:180 Resp: 173691
Ion Ratio Lower Upper
180 100
182 97.4 49.0 147.2
145 32.8 14.4 43.2

