

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062502.D
 Acq On : 12 May 2019 14:49
 Operator : FY/SY
 Sample : K2734-04MS
 Misc : 3.60g/5mL/MSVOA F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-0002-01MS

Quant Time: May 13 04:45:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	27723	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	34133	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.93	117	14717	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	4772	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	49612	189.36	ug/l	0.02
Spiked Amount			Recovery	=	378.72%	
35) Dibromofluoromethane	4.33	113	52695	193.78	ug/l	0.02
Spiked Amount			Recovery	=	387.56%	
50) Toluene-d8	7.73	98	21161	32.15	ug/l	0.02
Spiked Amount			Recovery	=	64.30%	
62) 4-Bromofluorobenzene	11.50	95	6547	22.05	ug/l	0.01
Spiked Amount			Recovery	=	44.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	124043	386.610	ug/l	99
3) Chloromethane	1.14	50	50798	240.056	ug/l	93
4) Vinyl Chloride	1.19	62	41080	194.629	ug/l	99
5) Bromomethane	1.40	94	18339	118.593	ug/l	89
6) Chloroethane	1.44	64	25620	241.433	ug/l	91
7) Trichlorofluoromethane	1.56	101	91875	209.794	ug/l	88
8) Diethyl Ether	1.71	74	22323	336.883	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.91	101	50901	203.587	ug/l	97
10) Methyl Iodide	1.98	142	19542	47.430	ug/l	97
11) Tert butyl alcohol	2.70	59	28404	1918.262	ug/l #	93
12) 1,1-Dichloroethene	1.87	96	20814	97.925	ug/l	94
13) Acrolein	2.13	56	775	69.425	ug/l #	57
14) Allyl chloride	2.21	41	26936	143.462	ug/l #	87
15) Acrylonitrile	3.09	53	14980	534.073	ug/l	92
16) Acetone	2.35	43	56804	1071.785	ug/l	99
17) Carbon Disulfide	1.91	76	21525	46.445	ug/l #	82
18) Methyl Acetate	2.47	43	25618	279.420	ug/l	94
19) Methyl tert-butyl Ether	2.56	73	189464	431.821	ug/l	99
20) Methylene Chloride	2.34	84	27499	143.409	ug/l	95
21) trans-1,2-Dichloroethene	2.43	96	11429	56.437	ug/l	95
22) Diisopropyl ether	2.95	45	191587	326.485	ug/l	96
23) Vinyl Acetate	3.35	43	1490	5.697	ug/l #	79
24) 1,1-Dichloroethane	3.03	63	71522	201.663	ug/l	97
25) 2-Butanone	4.54	43	12552	188.512	ug/l	96
26) 2,2-Dichloropropane	3.78	77	19995	100.955	ug/l	89
27) cis-1,2-Dichloroethene	3.67	96	23903	94.427	ug/l	94
28) Bromochloromethane	3.92	49	30934	192.320	ug/l	98
29) Tetrahydrofuran	4.29	42	53457	1746.846	ug/l	97
30) Chloroform	4.06	83	73725	153.867	ug/l	95
31) Cyclohexane	3.92	56	10045	35.484	ug/l #	92
32) 1,1,1-Trichloroethane	4.31	97	47325	115.242	ug/l	95
36) 1,1-Dichloropropene	4.48	75	8589	29.293	ug/l #	93
37) Ethyl Acetate	4.29	43	15683	147.643	ug/l #	93
38) Carbon Tetrachloride	4.21	117	21268	71.103	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.66	83	4516	15.357	ug/l #	87
40) Benzene	4.84	78	50063	77.536	ug/l	96
41) Methacrylonitrile	4.95	41	3991	56.765	ug/l #	63
42) 1,2-Dichloroethane	5.14	62	49713	184.091	ug/l	97
43) Isopropyl Acetate	7.15	43	1143	8.570	ug/l #	48
44) Trichloroethene	5.71	130	7304	30.794	ug/l	81
45) 1,2-Dichloropropane	6.43	63	25308	173.049	ug/l	96
46) Dibromomethane	6.28	93	18651	153.813	ug/l	99
47) Bromodichloromethane	6.56	83	44353	146.301	ug/l	100
48) Methyl methacrylate	6.90	41	6869	72.880	ug/l #	87
49) 1,4-Dioxane	6.88	88	8980	9373.410	ug/l #	80
51) 4-Methyl-2-Pentanone	8.42	43	22247	220.138	ug/l	88
52) Toluene	7.80	92	12345	30.992	ug/l	97
53) t-1,3-Dichloropropene	8.44	75	10056	43.857	ug/l	97
54) cis-1,3-Dichloropropene	7.48	75	10000	37.474	ug/l #	89
55) 1,1,2-Trichloroethane	8.65	97	23086	182.573	ug/l #	86
57) 1,3-Dichloropropane	9.01	76	28097	147.104	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.46	63	15118	376.728	ug/l	98
59) 2-Hexanone	9.63	43	1734	24.809	ug/l	82
60) Dibromochloromethane	8.87	129	26153	126.460	ug/l	99
61) 1,2-Dibromoethane	9.15	107	15323	103.104	ug/l	96
64) Tetrachloroethene	8.32	164	4395	36.785	ug/l #	76
65) Chlorobenzene	9.94	112	12503	51.347	ug/l #	87
66) 1,1,1,2-Tetrachloroethane	10.07	131	23838	194.059	ug/l	96
67) Ethyl Benzene	10.04	91	16152	37.881	ug/l	90
68) m/p-Xylenes	10.27	106	9486	60.296	ug/l	86
69) o-Xylene	10.82	106	8810	51.824	ug/l	98
70) Styrene	10.90	104	7038	27.624	ug/l #	81
71) Bromoform	10.89	173	13761	204.479	ug/l #	91
73) Isopropylbenzene	11.23	105	13920	49.204	ug/l	96
74) N-amyl acetate	11.45	43	463	7.623	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	11.78	83	31465	710.343	ug/l	92
76) 1,2,3-Trichloropropane	11.88	75	22264	658.802	ug/l #	100
77) Bromobenzene	11.59	156	5897	79.424	ug/l	83
78) n-propylbenzene	11.68	91	9712	32.245	ug/l	100
79) 2-Chlorotoluene	11.81	91	11665	62.284	ug/l	95
80) 1,3,5-Trimethylbenzene	11.91	105	13195	53.214	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.98	75	1342	105.644	ug/l #	5
82) 4-Chlorotoluene	11.99	91	8850	47.843	ug/l	91
83) tert-Butylbenzene	12.20	119	21552	82.703	ug/l	76
84) 1,2,4-Trimethylbenzene	12.28	105	14360	59.178	ug/l	92
85) sec-Butylbenzene	12.37	105	9822	30.965	ug/l	97
86) p-Isopropyltoluene	12.53	119	7917	26.865	ug/l	97
87) 1,3-Dichlorobenzene	12.55	146	6664	49.144	ug/l	95
88) 1,4-Dichlorobenzene	12.64	146	6417	49.031	ug/l	96
89) n-Butylbenzene	12.90	91	5117	19.516	ug/l	92
90) Hexachloroethane	12.98	117	2828	38.433	ug/l	95
91) 1,2-Dichlorobenzene	13.01	146	9343	71.185	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.69	75	4780	481.682	ug/l	97
93) 1,2,4-Trichlorobenzene	14.24	180	3805	32.321	ug/l	98

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QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

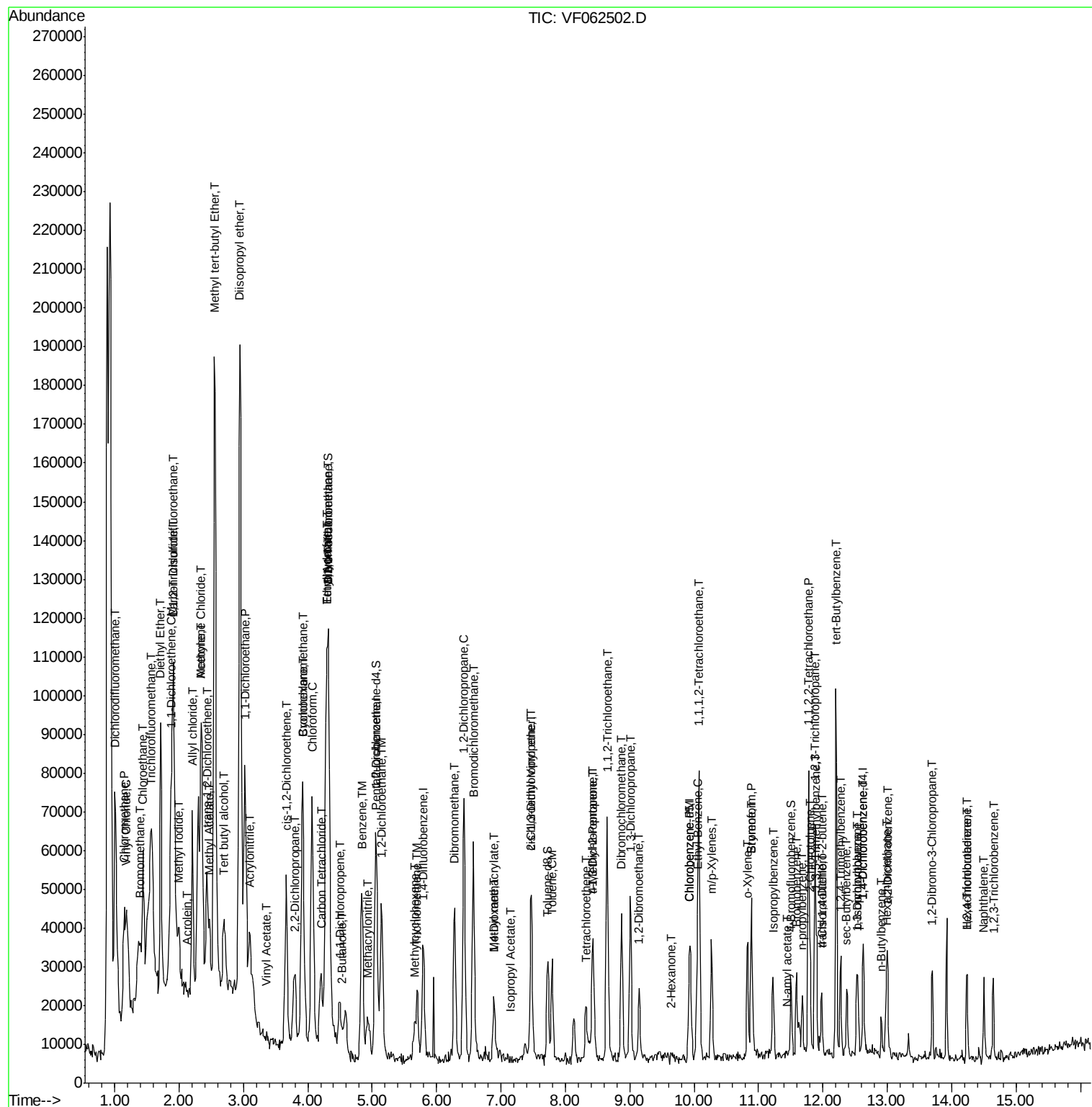
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	14.23	225	3008	34.282	ug/l	93
95) Naphthalene	14.50	128	10802	61.032	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.65	180	5112	44.822	ug/l	95

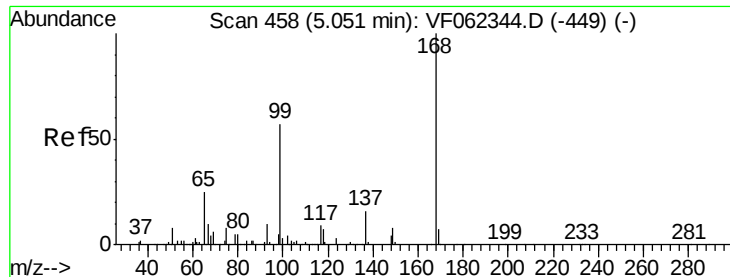
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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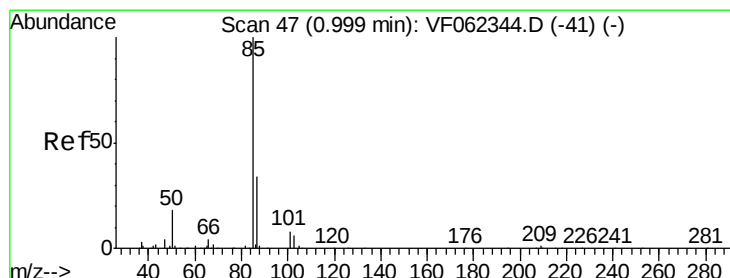
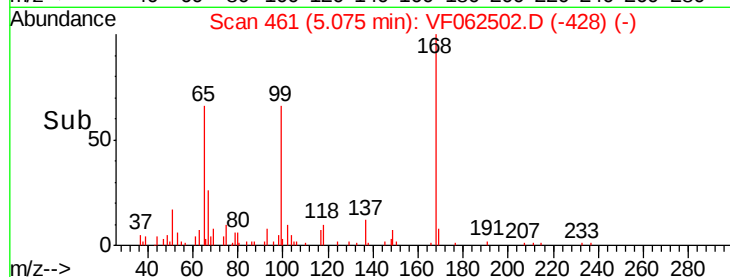
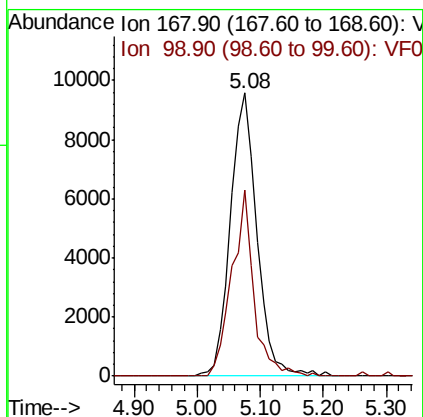
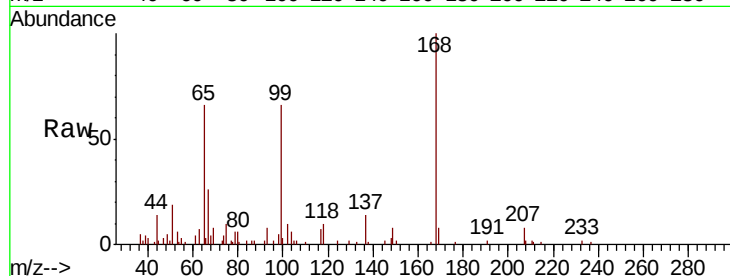


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.08 min Scan# 461
 Delta R.T. 0.02 min
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 ClientSampleId :
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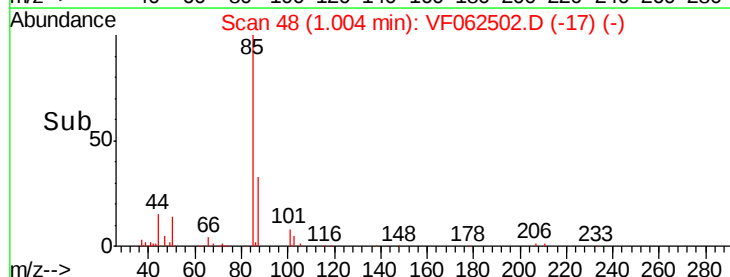
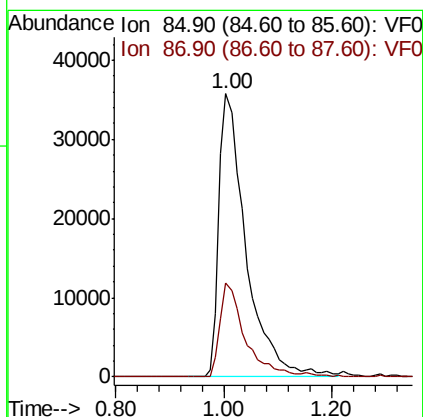
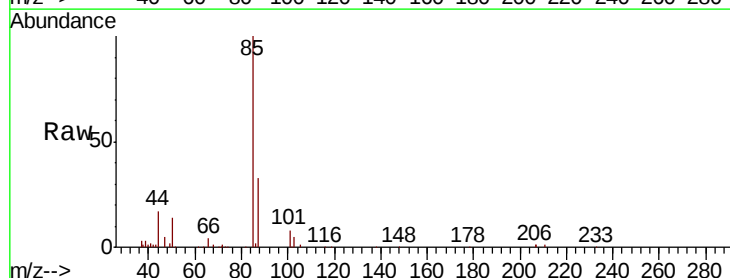
Tot Ion:168 Resp: 27723
 Ion Ratio Lower Upper
 168 100
 99 65.9 45.9 68.9

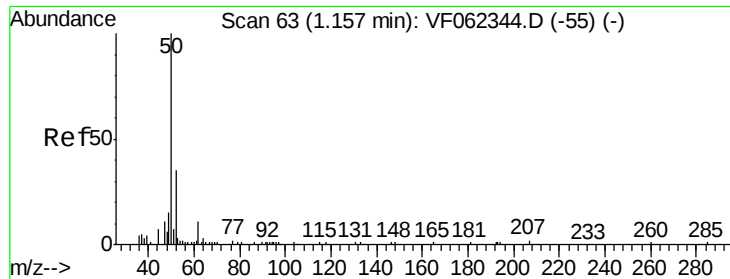


#2

Dichlorodifluoromethane
 Concen: 386.610 ug/l
 RT: 1.00 min Scan# 48
 Delta R.T. 0.01 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Tgt Ion: 85 Resp: 124043
 Ion Ratio Lower Upper
 85 100
 87 33.0 16.8 50.4





#3

Chloromethane

Concen: 240.056 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

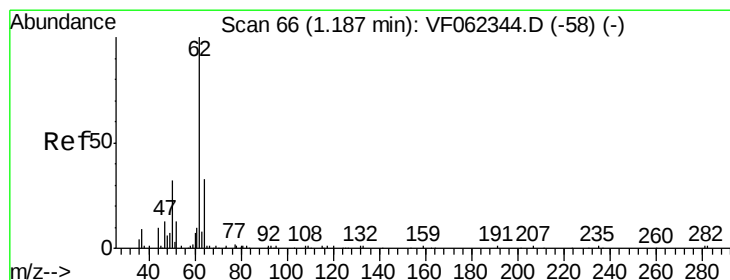
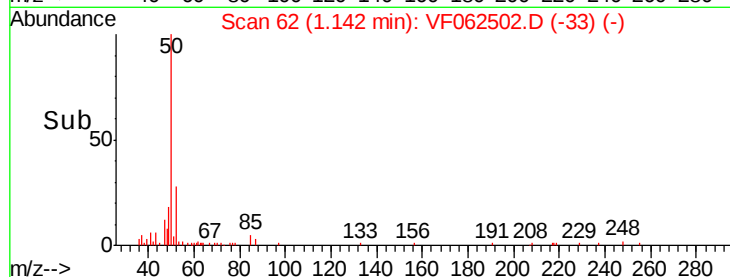
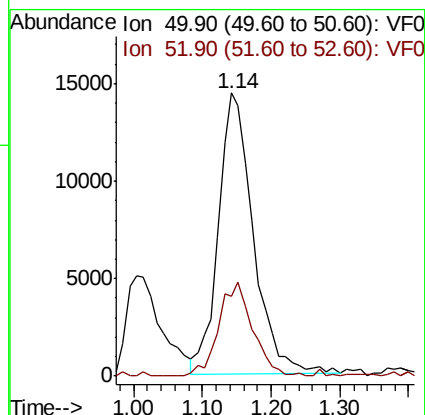
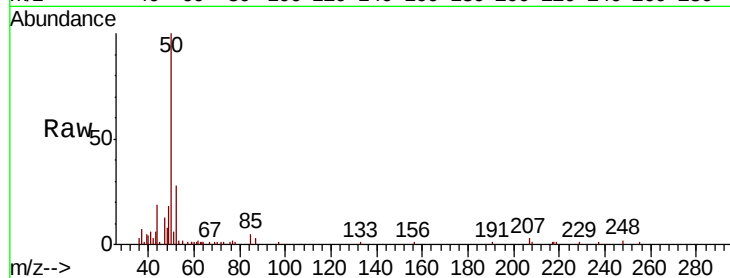
P026-SS012-0002-01MS

Tot Ion: 50 Resp: 50798

Ion Ratio Lower Upper

50 100

52 28.6 26.1 39.1



#4

Vinyl Chloride

Concen: 194.629 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062502.D

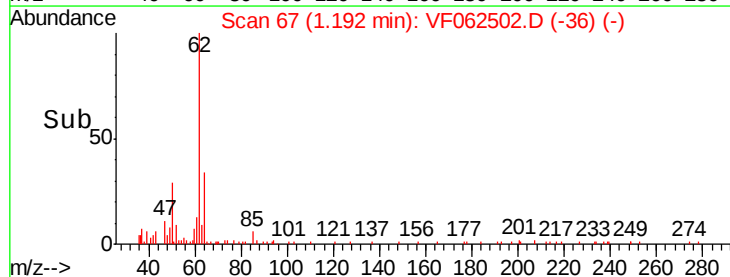
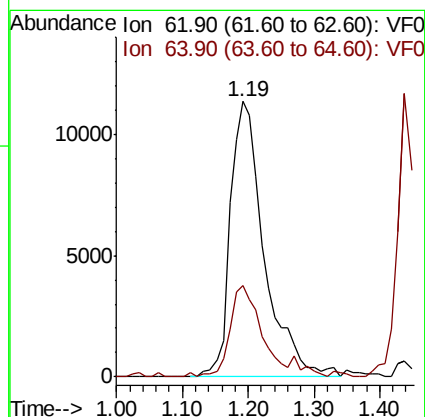
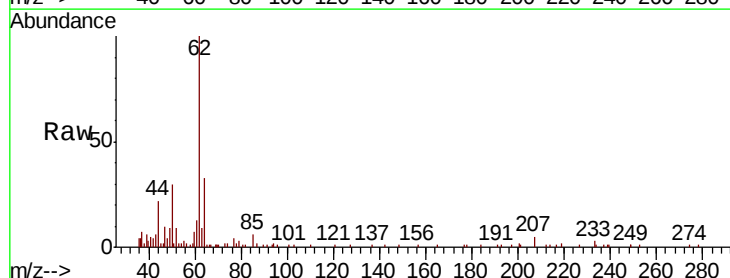
Acq: 12 May 2019 14:49

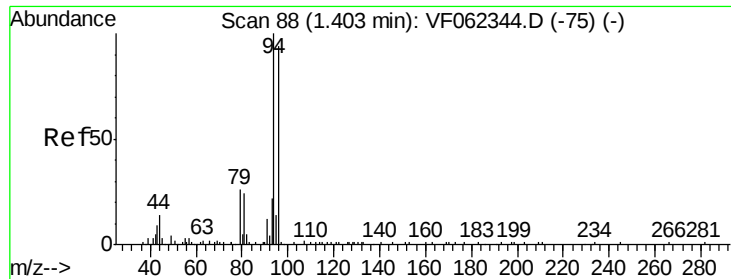
Tgt Ion: 62 Resp: 41080

Ion Ratio Lower Upper

62 100

64 31.8 26.1 39.1





#5

Bromomethane

Concen: 118.593 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

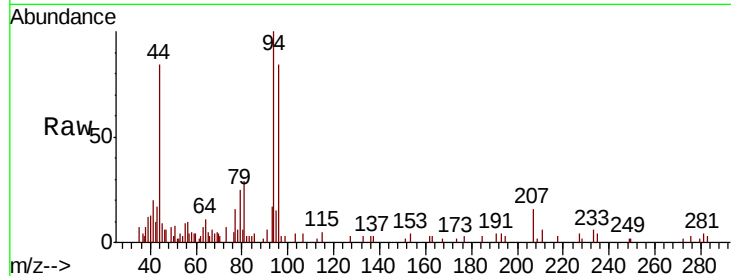
P026-SS012-0002-01MS

Tot Ion: 94 Resp: 18339

Ion Ratio Lower Upper

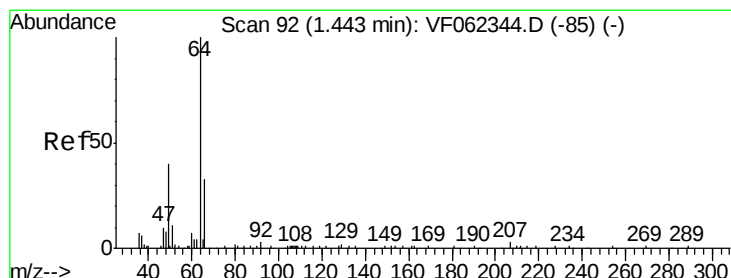
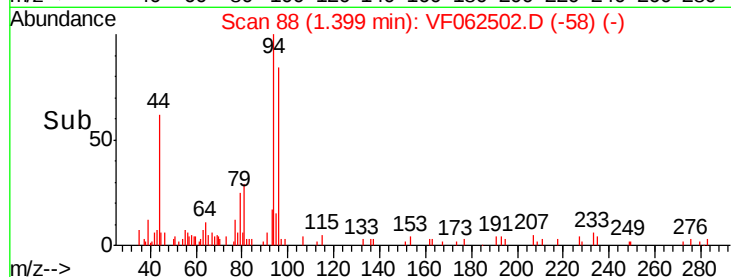
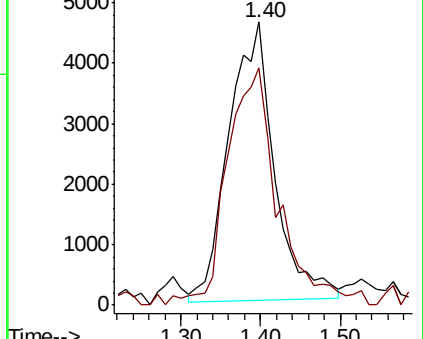
94 100

96 83.2 75.4 113.2



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



#6

Chloroethane

Concen: 241.433 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.00 min

Lab File: VF062502.D

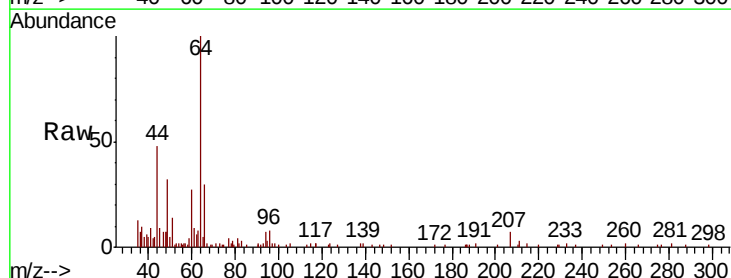
Acq: 12 May 2019 14:49

Tgt Ion: 64 Resp: 25620

Ion Ratio Lower Upper

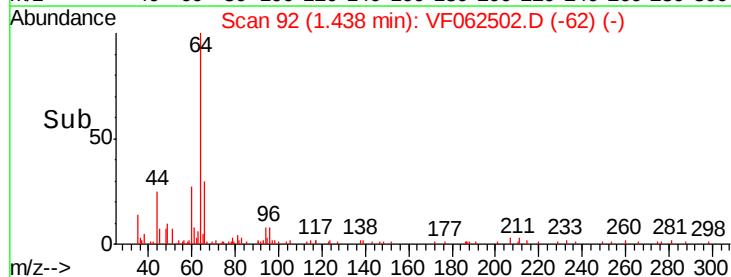
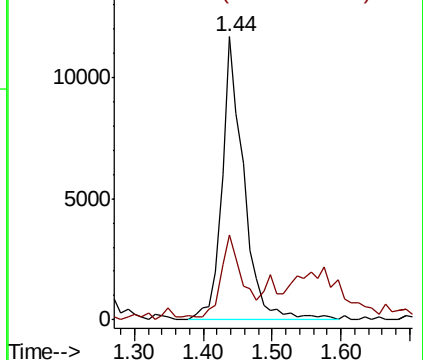
64 100

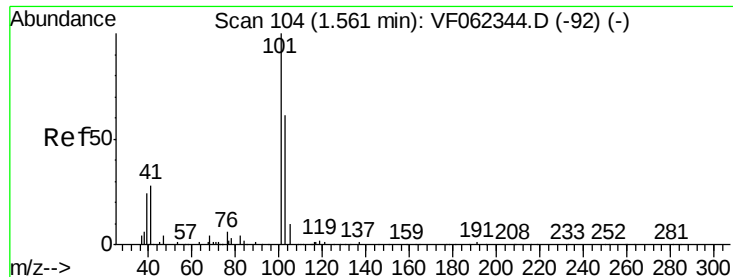
66 28.3 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0



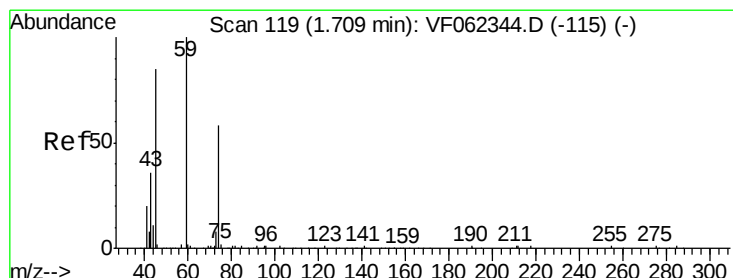
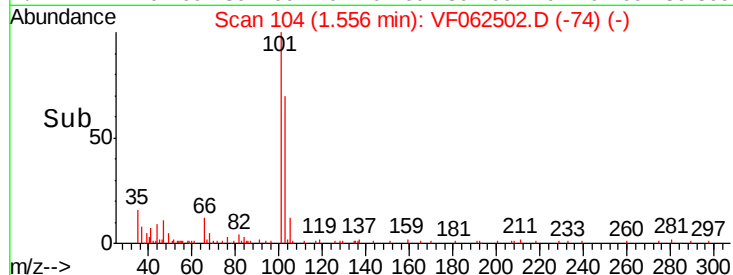
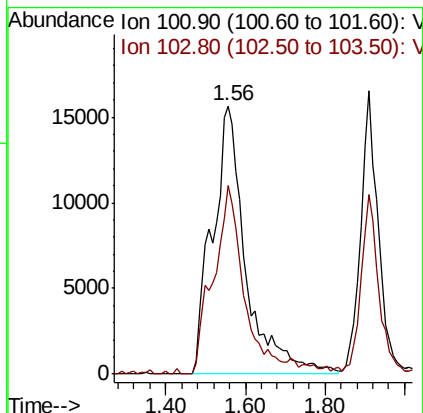
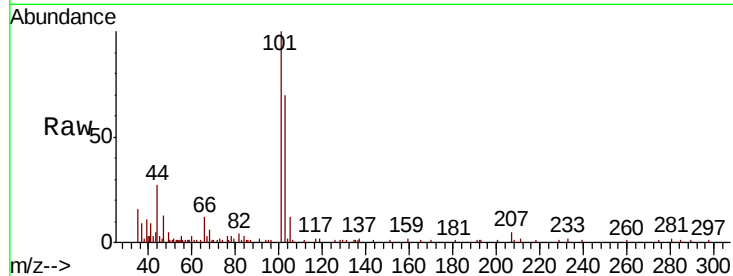


#7

Trichlorofluoromethane
Concen: 209.794 ug/l
RT: 1.56 min Scan# 104
Delta R.T. -0.00 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Instrument :
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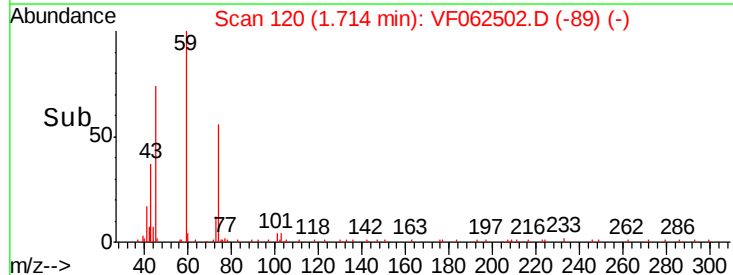
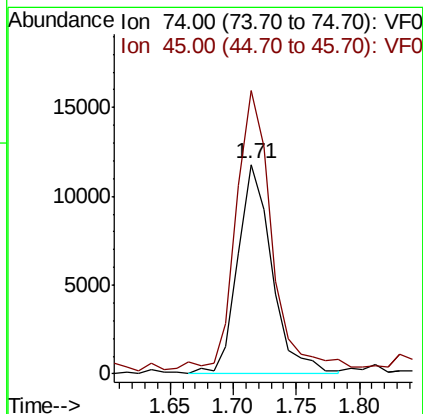
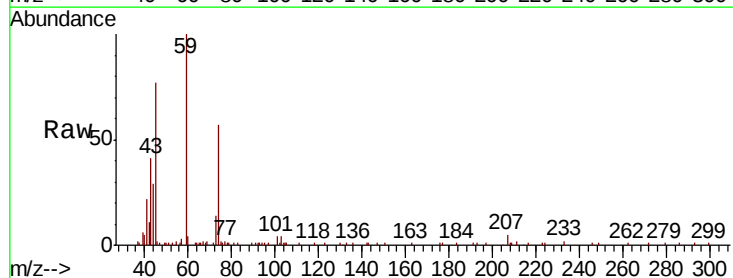
Tot Ion:101 Resp: 91875
Ion Ratio Lower Upper
101 100
103 70.1 48.5 72.7

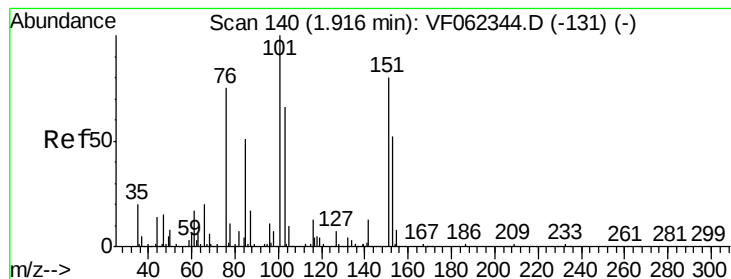


#8

Diethyl Ether
Concen: 336.883 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Tgt Ion: 74 Resp: 22323
Ion Ratio Lower Upper
74 100
45 136.5 73.9 221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 203.587 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

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ClientSampleId :

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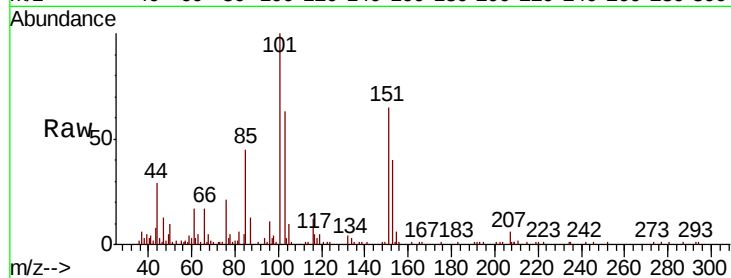
Tot Ion:101 Resp: 50901

Ion Ratio Lower Upper

101 100

85 47.3 39.5 59.3

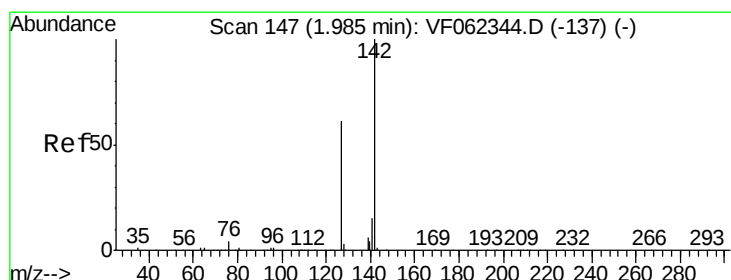
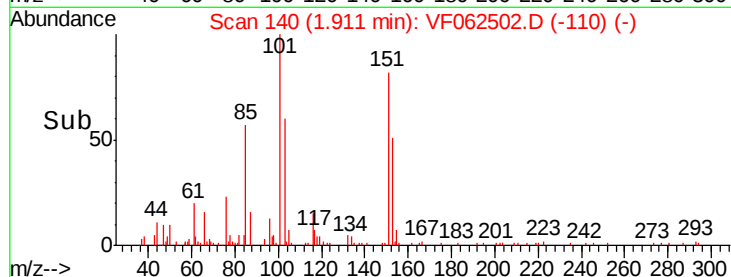
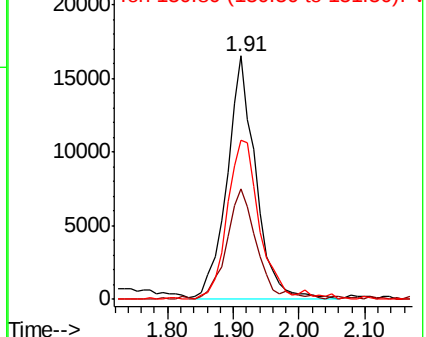
151 72.1 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 47.430 ug/l

RT: 1.98 min Scan# 147

Delta R.T. -0.00 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

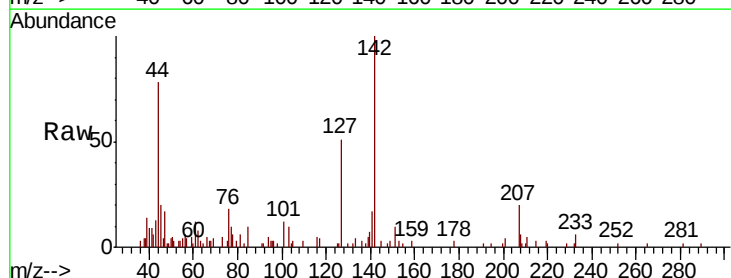
Tgt Ion:142 Resp: 19542

Ion Ratio Lower Upper

142 100

127 58.0 48.4 72.6

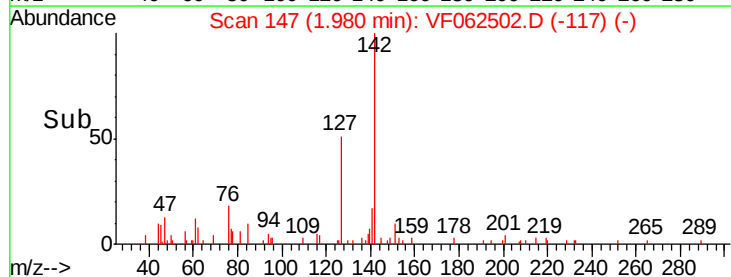
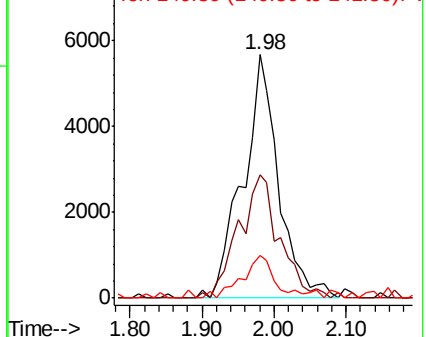
141 16.4 12.2 18.4

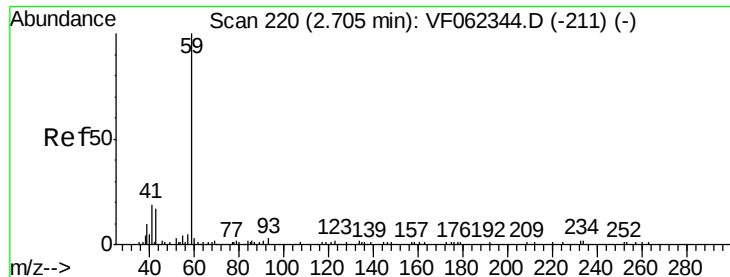


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



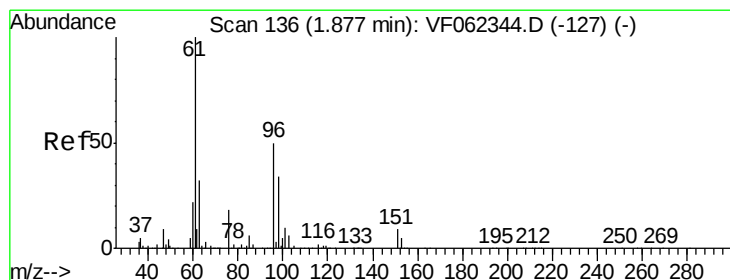
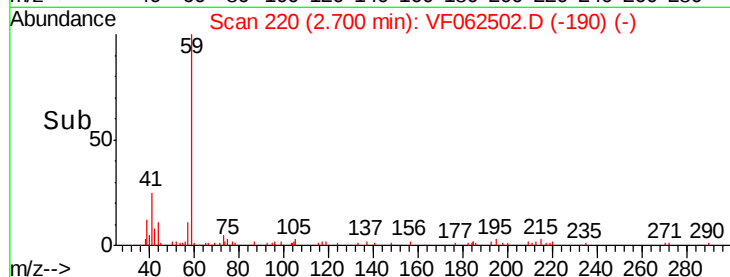
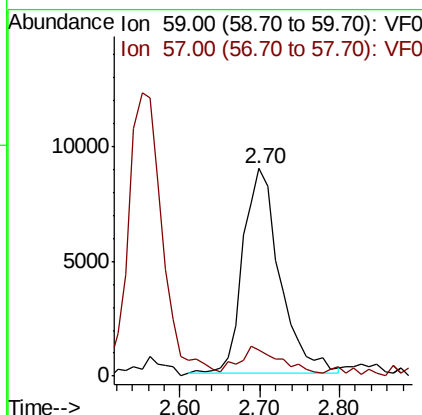
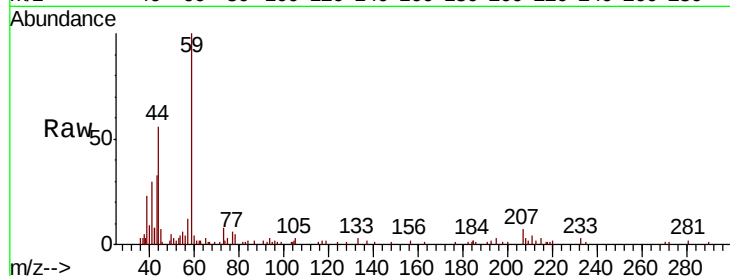


#11

Tert butyl alcohol
 Concen: 1918.262 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.00 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-0002-01MS

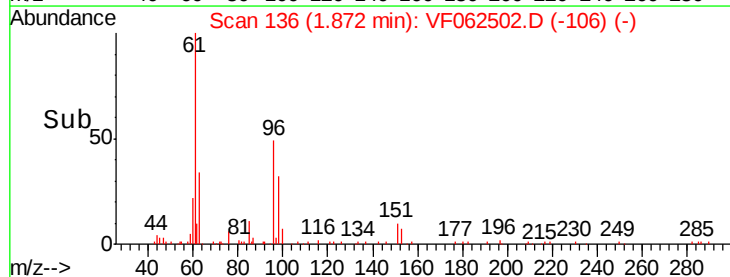
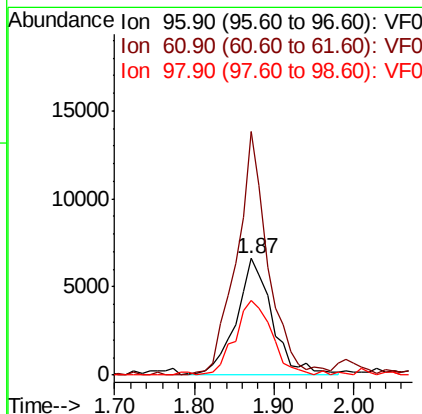
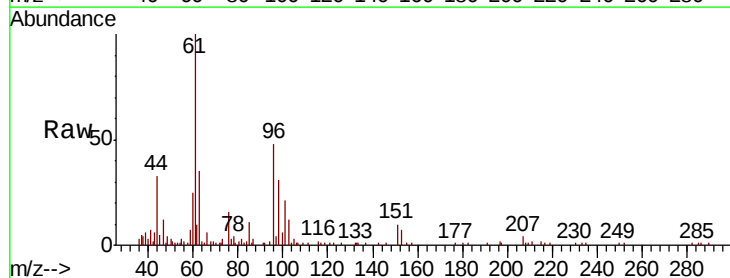
Tot Ion: 59 Resp: 28404
 Ion Ratio Lower Upper
 59 100
 57 14.4 9.3 13.9#

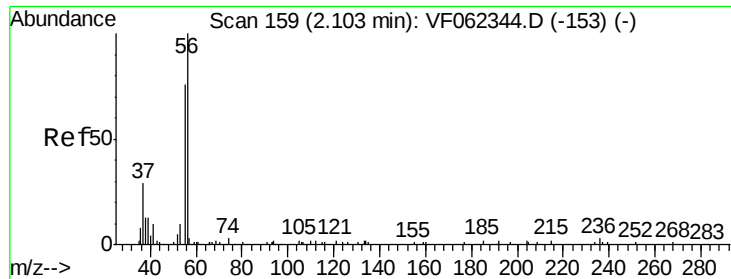


#12

1,1-Dichloroethene
 Concen: 97.925 ug/l
 RT: 1.87 min Scan# 136
 Delta R.T. -0.00 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Tgt Ion: 96 Resp: 20814
 Ion Ratio Lower Upper
 96 100
 61 212.0 163.2 244.8
 98 63.1 55.2 82.8





#13

Acrolein

Concen: 69.425 ug/l

RT: 2.13 min Scan# 162

Delta R.T. 0.03 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

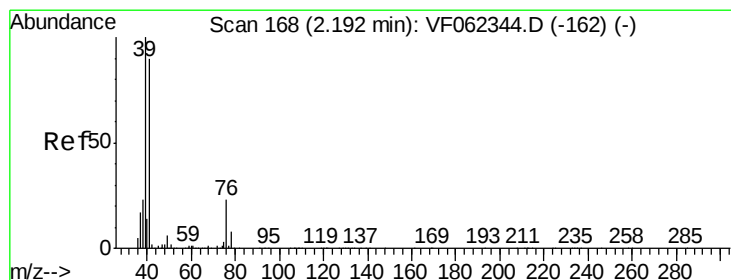
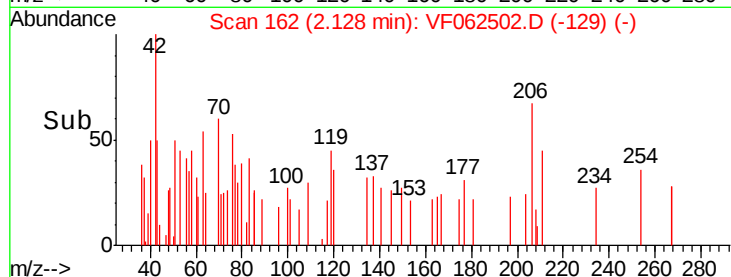
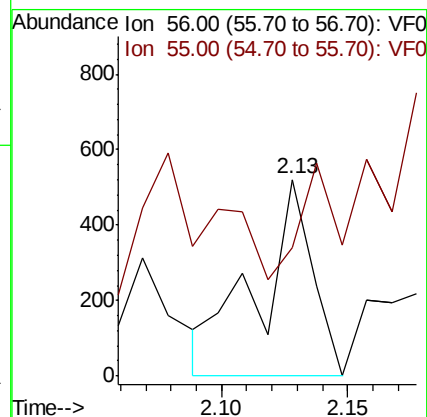
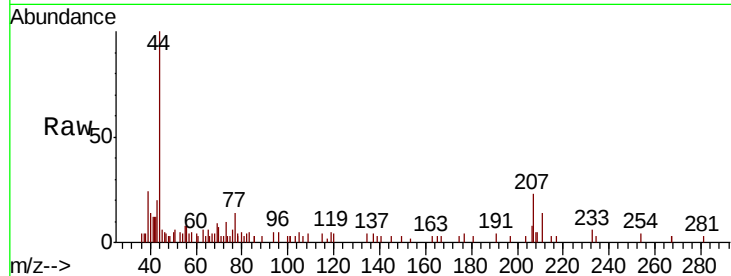
P026-SS012-0002-01MS

Tot Ion: 56 Resp: 775

Ion Ratio Lower Upper

56 100

55 36.9 58.4 87.6#



#14

Allyl chloride

Concen: 143.462 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

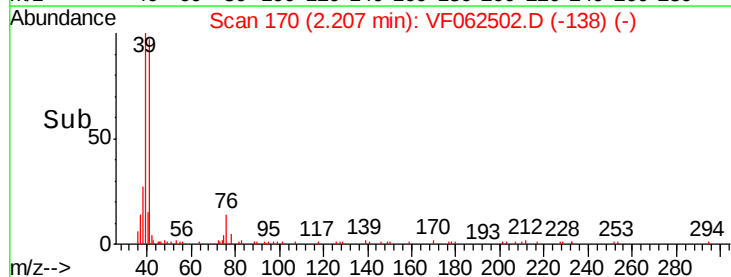
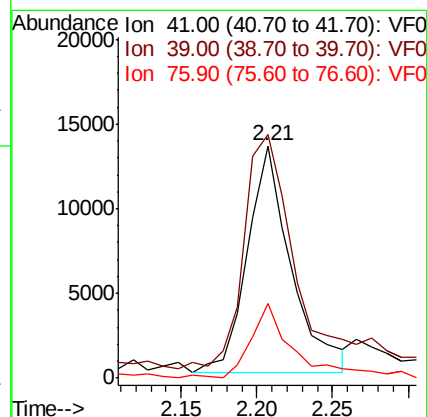
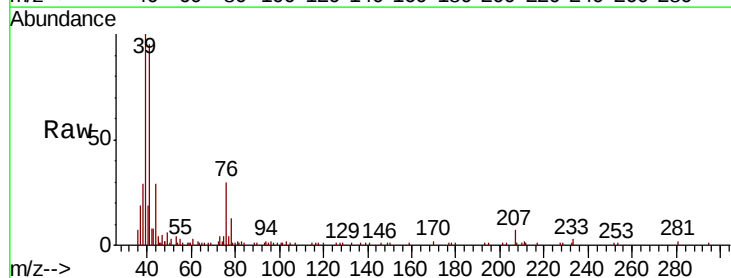
Tgt Ion: 41 Resp: 26936

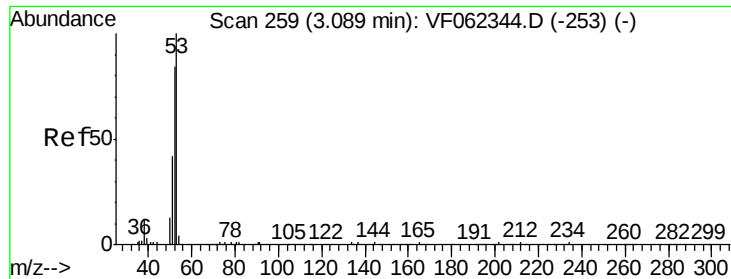
Ion Ratio Lower Upper

41 100

39 127.7 90.8 136.2

76 33.8 22.2 33.4#





#15

Acrylonitrile

Concen: 534.073 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

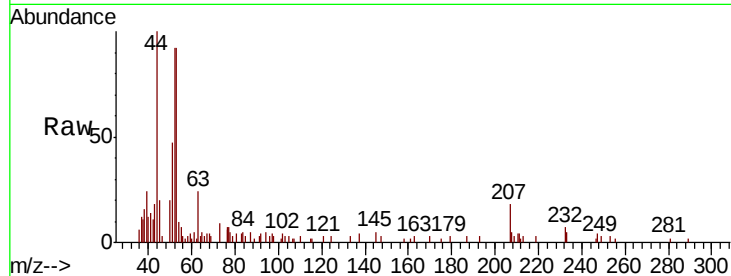
MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

Tot Ion: 53 Resp: 14980

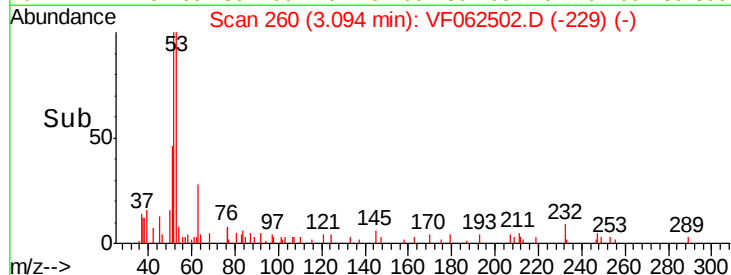
Ion	Ratio	Lower	Upper
53	100		
52	87.7	77.2	115.8
51	47.4	40.6	61.0



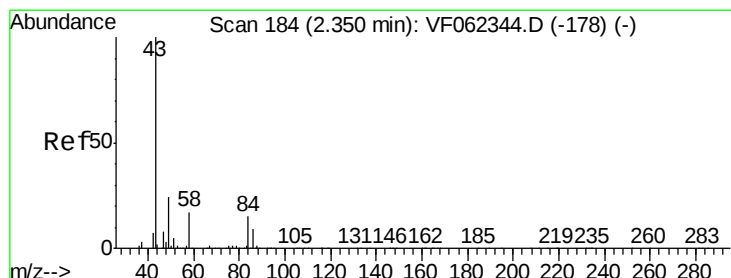
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 1071.785 ug/l

RT: 2.35 min Scan# 185

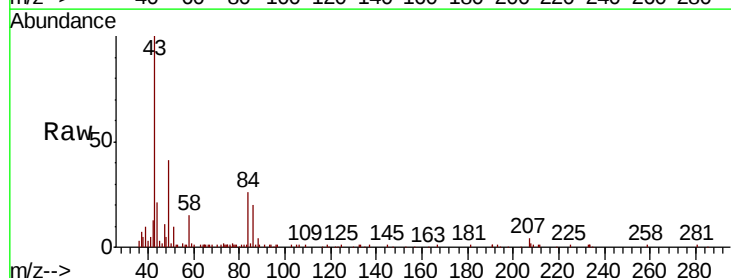
Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

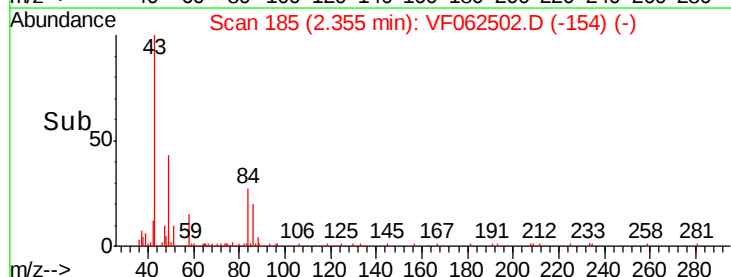
Tgt Ion: 43 Resp: 56804

Ion	Ratio	Lower	Upper
43	100		
58	16.0	13.1	19.7

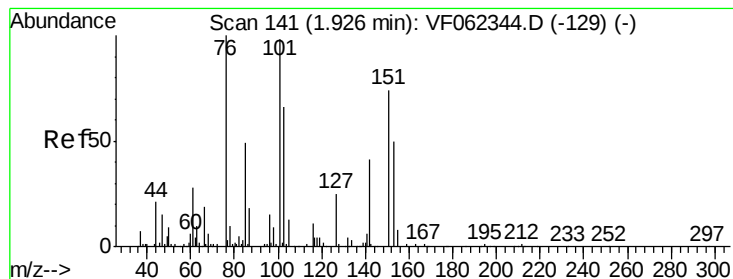


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#17

Carbon Disulfide

Concen: 46.445 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

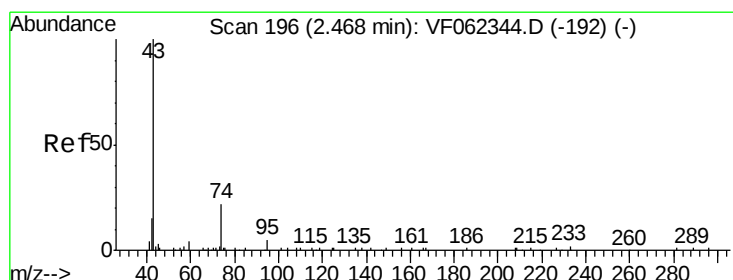
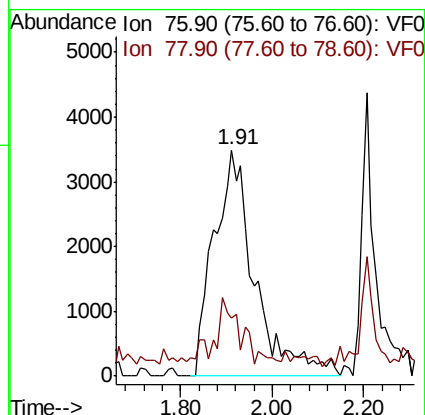
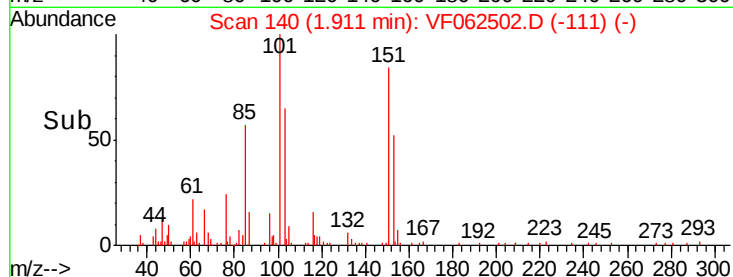
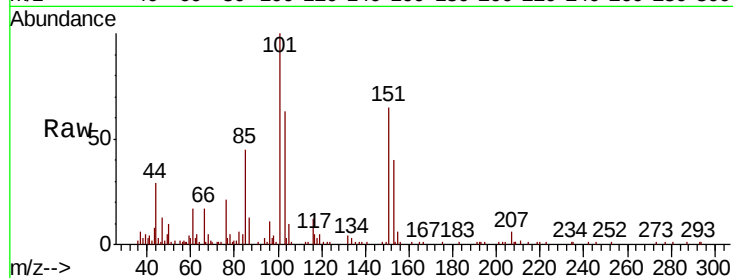
P026-SS012-0002-01MS

Tot Ion: 76 Resp: 21525

Ion Ratio Lower Upper

76 100

78 18.0 9.0 13.4#



#18

Methyl Acetate

Concen: 279.420 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF062502.D

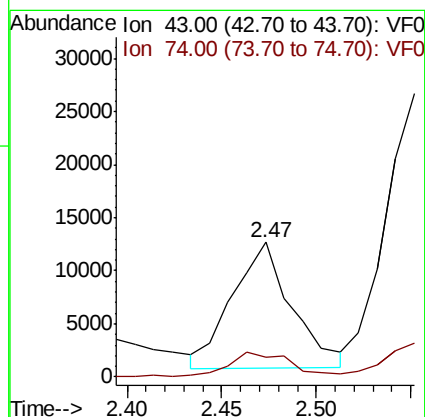
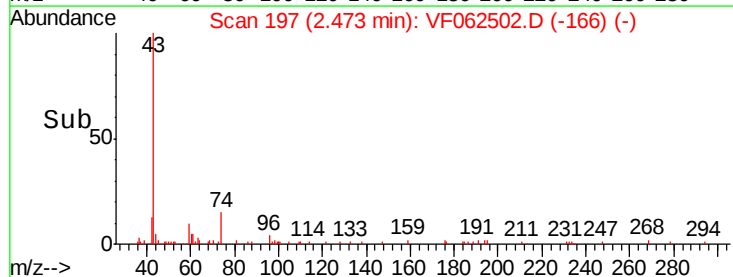
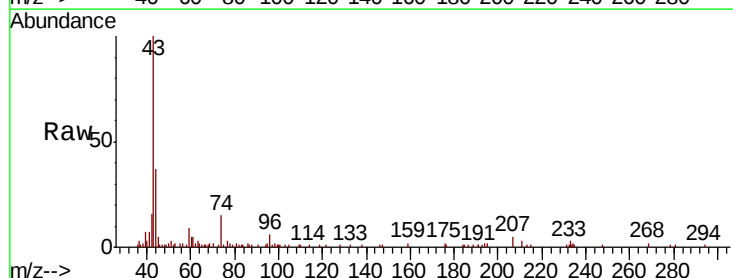
Acq: 12 May 2019 14:49

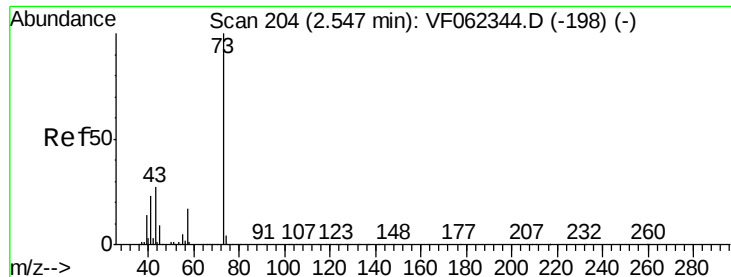
Tgt Ion: 43 Resp: 25618

Ion Ratio Lower Upper

43 100

74 21.5 15.0 22.4

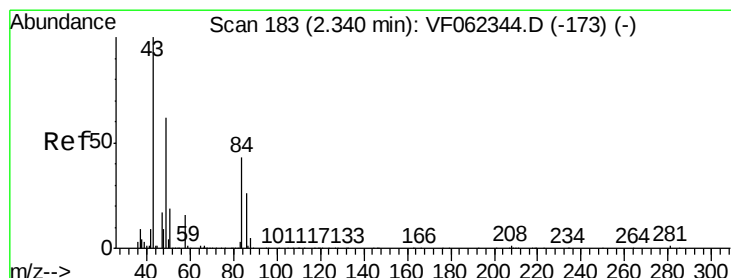
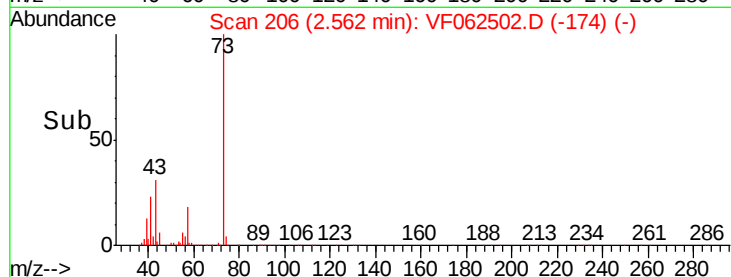
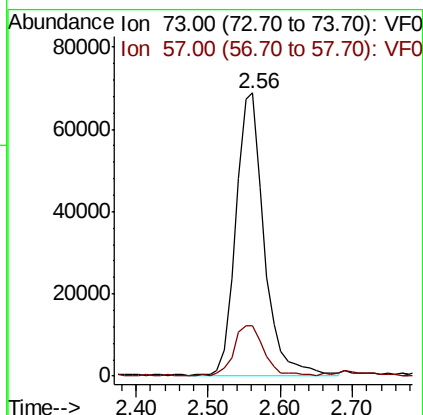
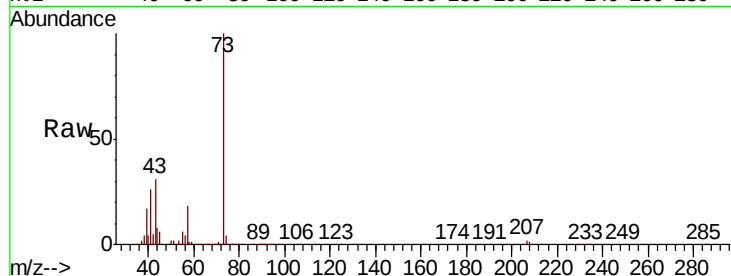




#19
Methyl tert-butyl Ether
Concen: 431.821 ug/l
RT: 2.56 min Scan# 206
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

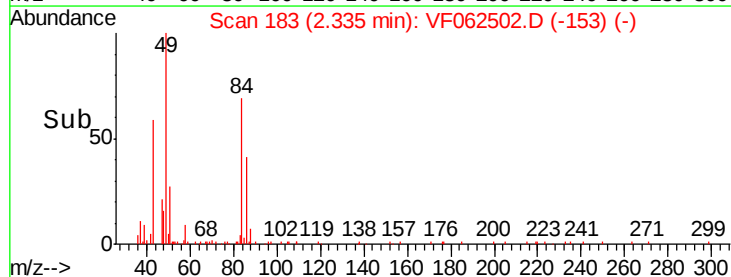
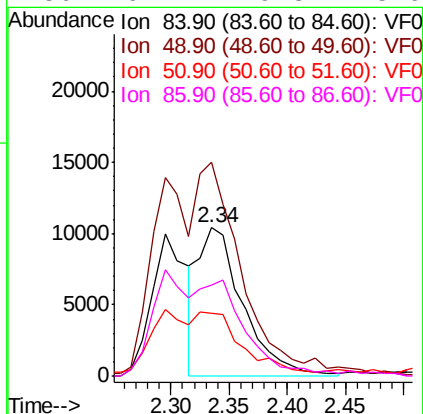
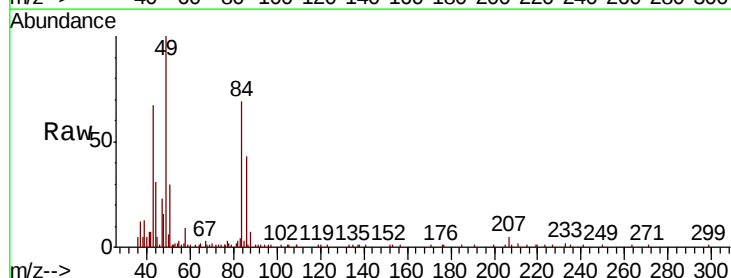
Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0002-01MS

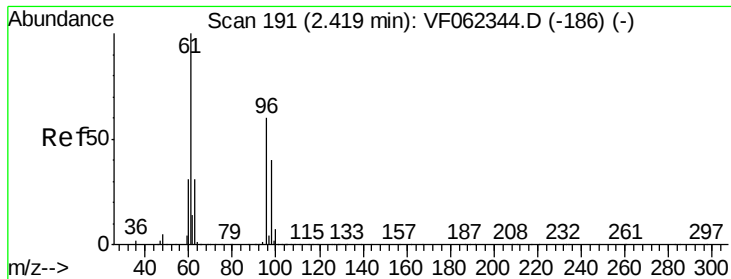
Tot Ion: 73 Resp: 189464
Ion Ratio Lower Upper
73 100
57 17.6 13.7 20.5



#20
Methylene Chloride
Concen: 143.409 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Tgt Ion: 84 Resp: 27499
Ion Ratio Lower Upper
84 100
49 140.0 117.5 176.3
51 39.1 37.0 55.4
86 61.1 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 56.437 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

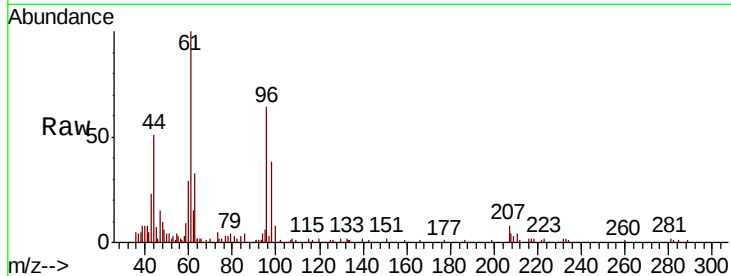
Tot Ion: 96 Resp: 11429

Ion Ratio Lower Upper

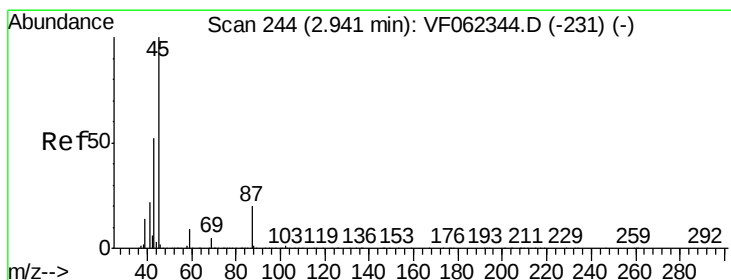
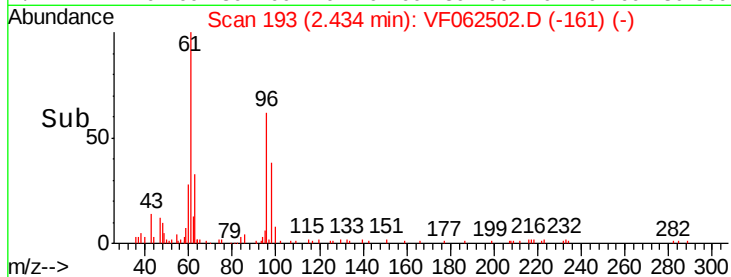
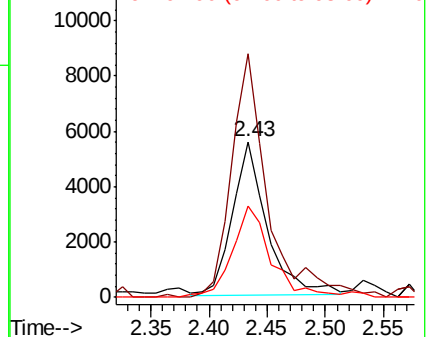
96 100

61 161.4 133.2 199.8

98 58.9 53.1 79.7



Abundance Ion 95.90 (95.60 to 96.60): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 97.90 (97.60 to 98.60): VF0



#22

Diisopropyl ether

Concen: 326.485 ug/l

RT: 2.95 min Scan# 245

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Tgt Ion: 45 Resp: 191587

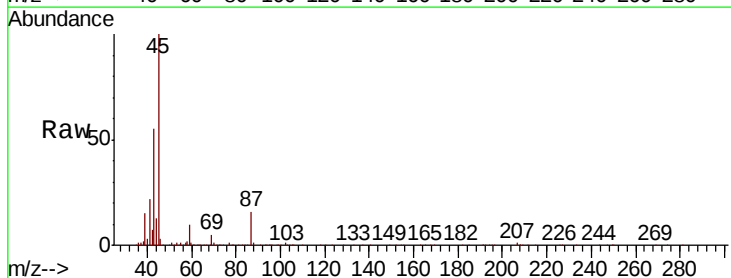
Ion Ratio Lower Upper

45 100

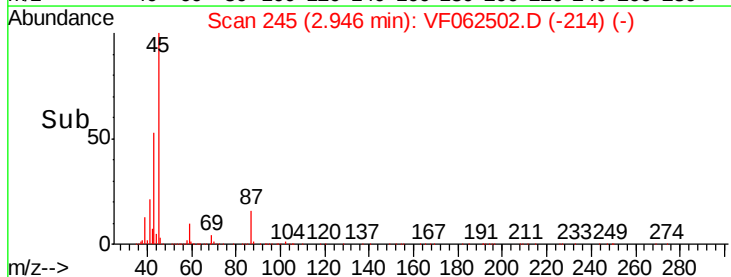
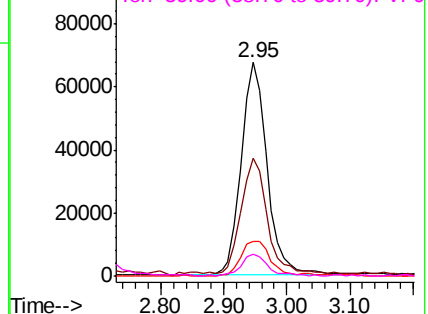
43 53.7 41.4 62.0

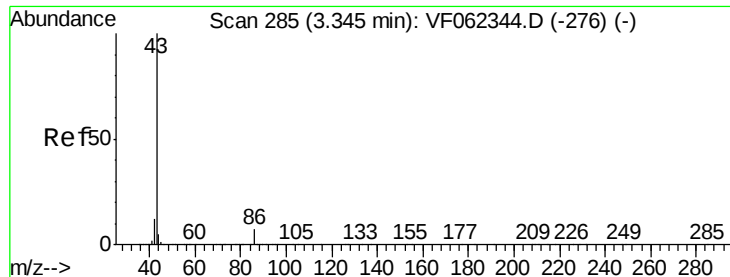
87 16.5 15.8 23.6

59 9.6 7.2 10.8



Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 5.697 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

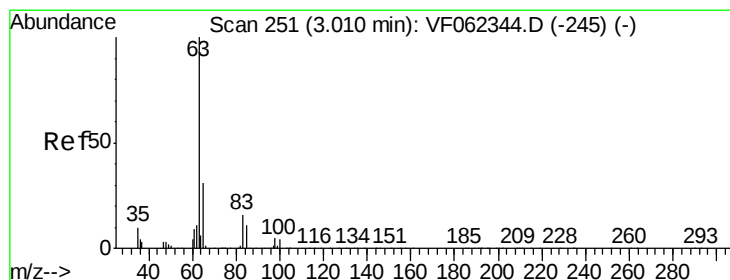
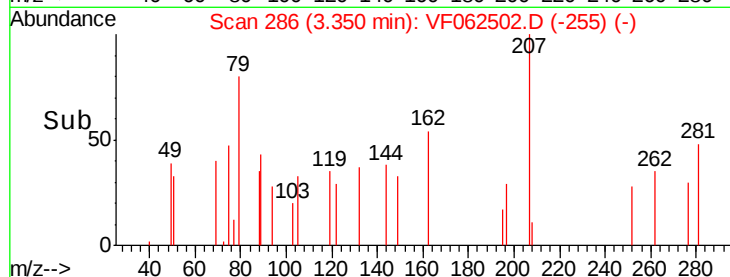
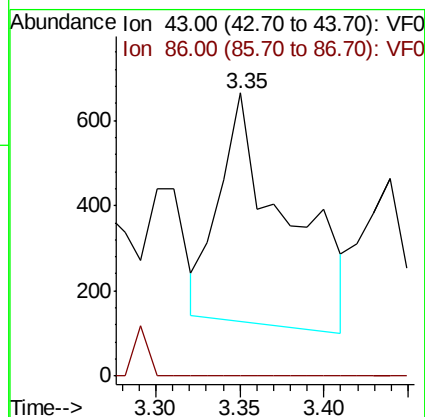
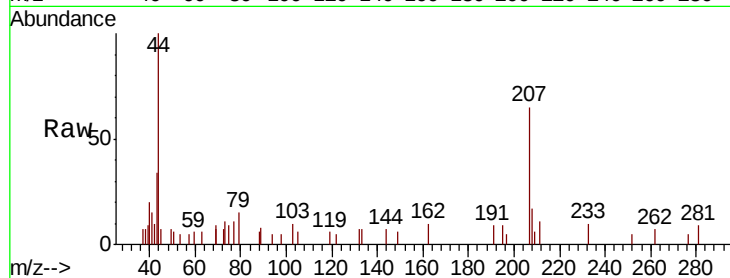
P026-SS012-0002-01MS

Tot Ion: 43 Resp: 1490

Ion Ratio Lower Upper

43 100

86 0.0 5.7 8.5#



#24

1,1-Dichloroethane

Concen: 201.663 ug/l

RT: 3.03 min Scan# 253

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

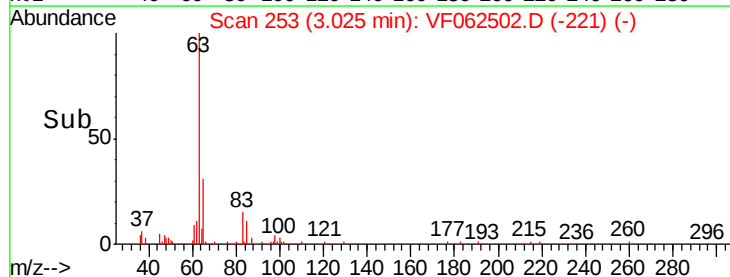
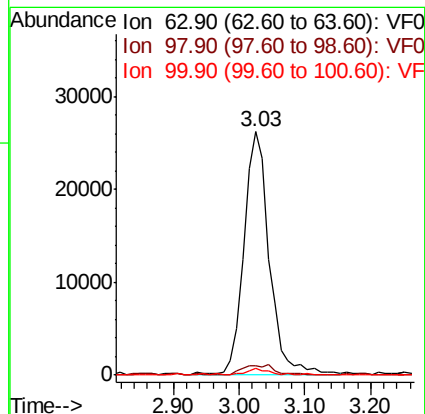
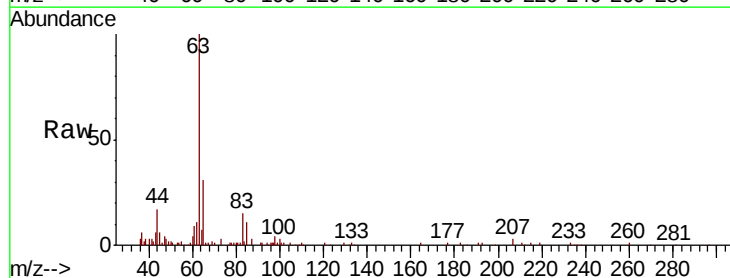
Tgt Ion: 63 Resp: 71522

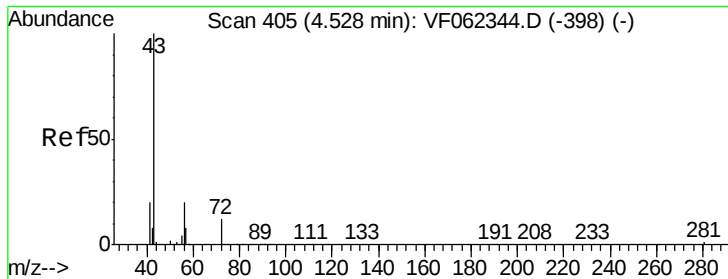
Ion Ratio Lower Upper

63 100

98 4.0 2.6 8.0

100 2.8 1.8 5.4





#25

2-Butanone

Concen: 188.512 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

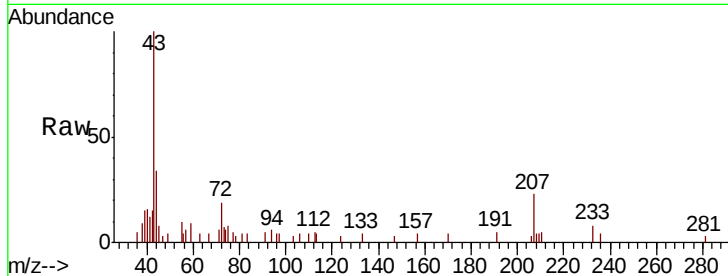
P026-SS012-0002-01MS

Tot Ion: 43 Resp: 12552

Ion Ratio Lower Upper

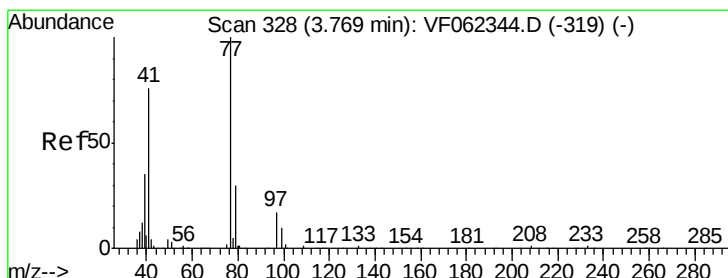
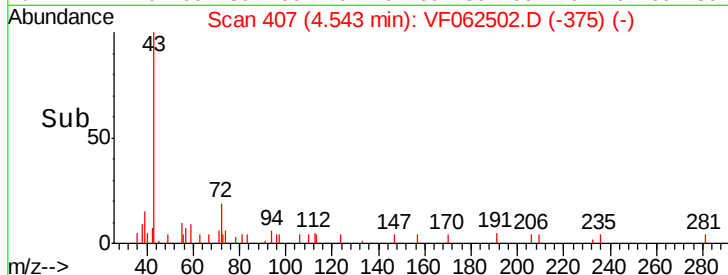
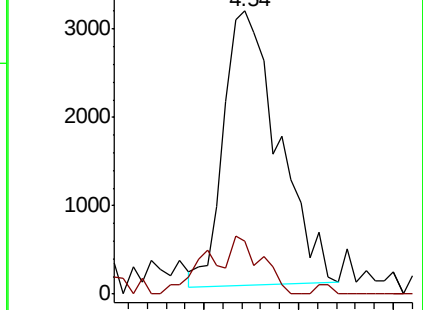
43 100

72 19.5 14.2 21.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 100.955 ug/l

RT: 3.78 min Scan# 330

Delta R.T. 0.01 min

Lab File: VF062502.D

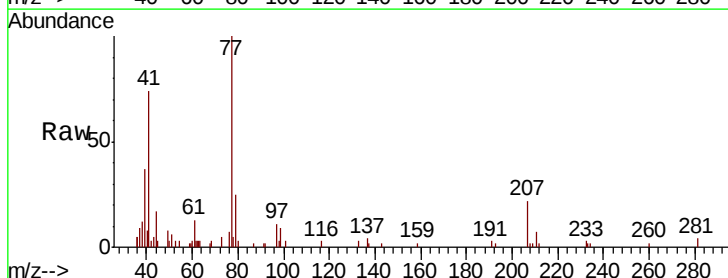
Acq: 12 May 2019 14:49

Tgt Ion: 77 Resp: 19995

Ion Ratio Lower Upper

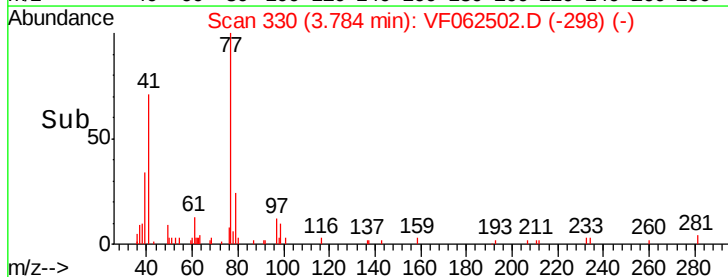
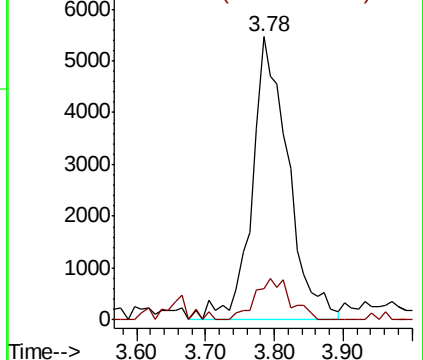
77 100

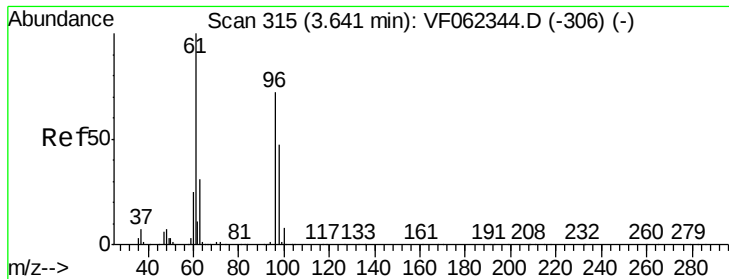
97 14.2 9.5 28.5



Abundance Ion 76.90 (76.60 to 77.60): VF0

Ion 96.90 (96.60 to 97.60): VF0



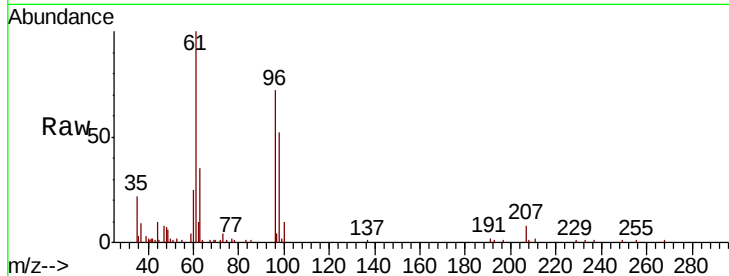


#27

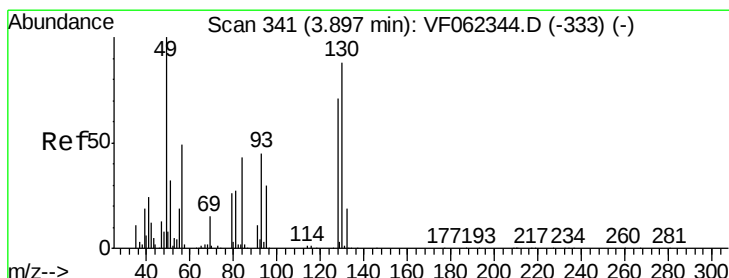
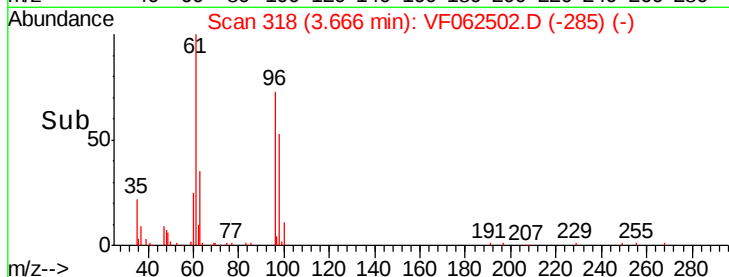
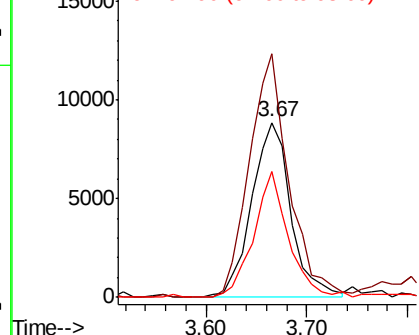
cis-1,2-Dichloroethene
 Concen: 94.427 ug/l
 RT: 3.67 min Scan# 318
 Delta R.T. 0.02 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-0002-01MS

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.8	0.0	263.0
98	64.1	0.0	130.8



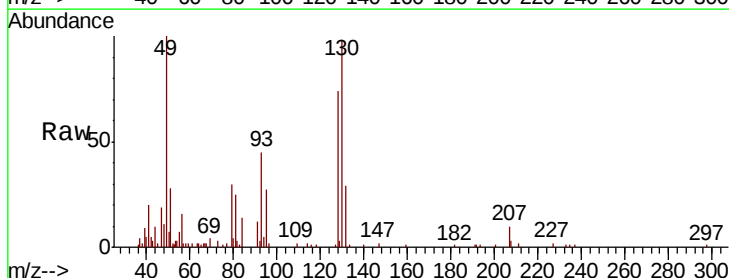
Abundance Ion 95.90 (95.60 to 96.60): VF0
 Ion 60.90 (60.60 to 61.60): VF0
 Ion 97.90 (97.60 to 98.60): VF0



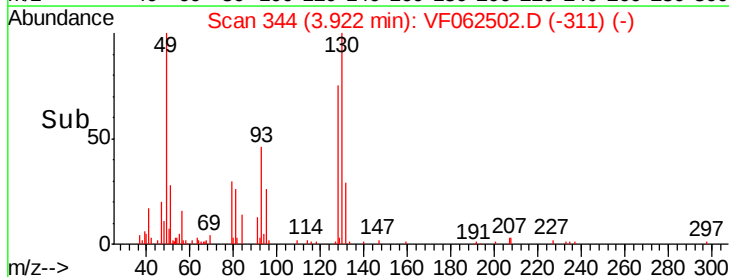
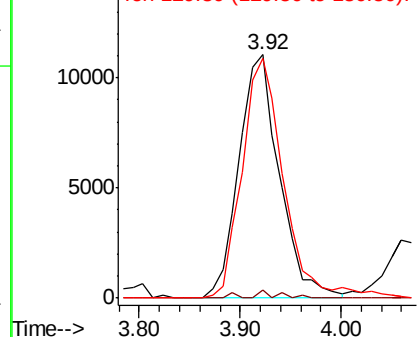
#28

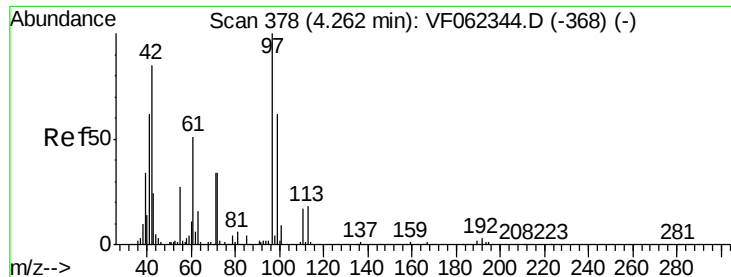
Bromochloromethane
 Concen: 192.320 ug/l
 RT: 3.92 min Scan# 344
 Delta R.T. 0.02 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	2.2
130	101.5	79.4	119.0



Abundance Ion 48.90 (48.60 to 49.60): VF0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 1746.846 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

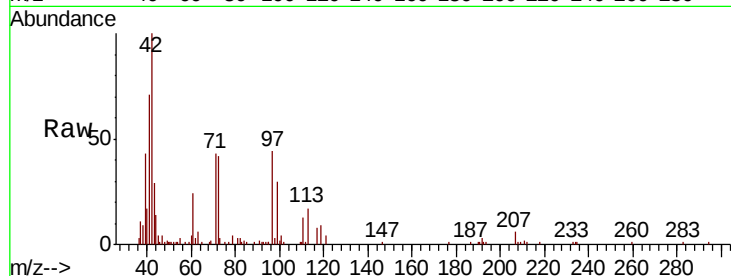
Tot Ion: 42 Resp: 53457

Ion Ratio Lower Upper

42 100

72 39.8 31.4 47.0

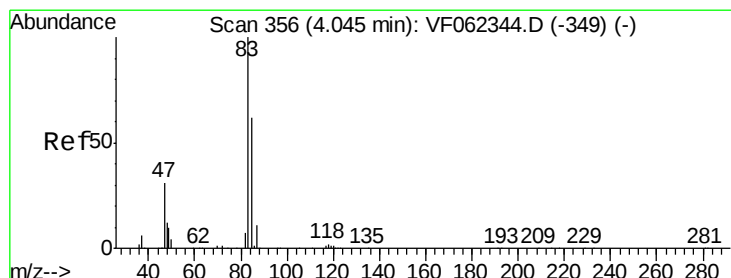
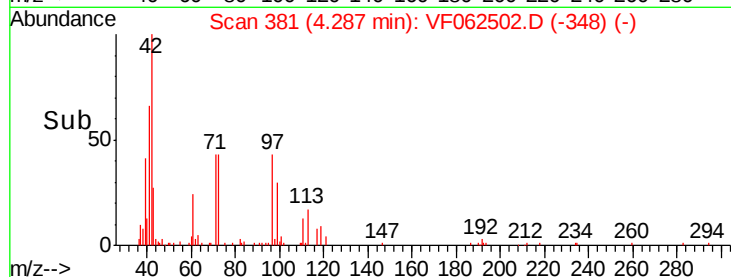
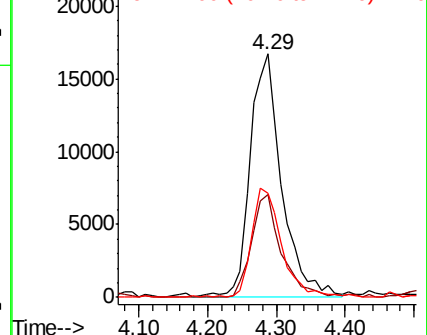
71 42.8 31.7 47.5



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 153.867 ug/l

RT: 4.06 min Scan# 358

Delta R.T. 0.01 min

Lab File: VF062502.D

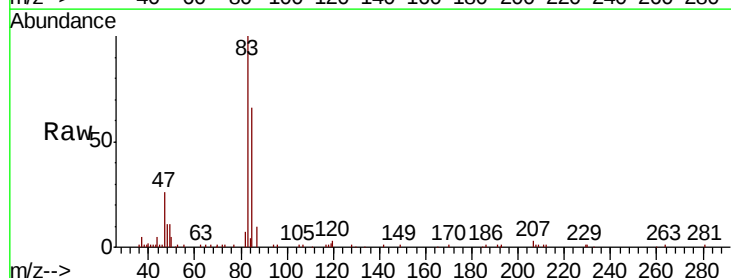
Acq: 12 May 2019 14:49

Tgt Ion: 83 Resp: 73725

Ion Ratio Lower Upper

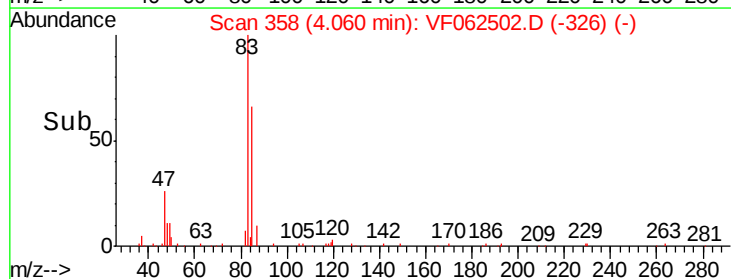
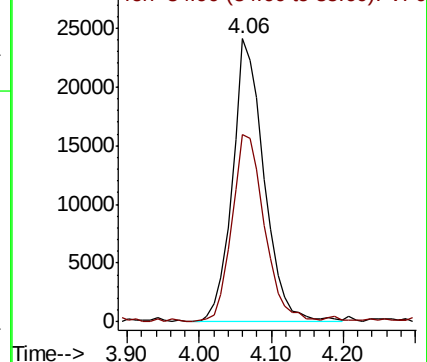
83 100

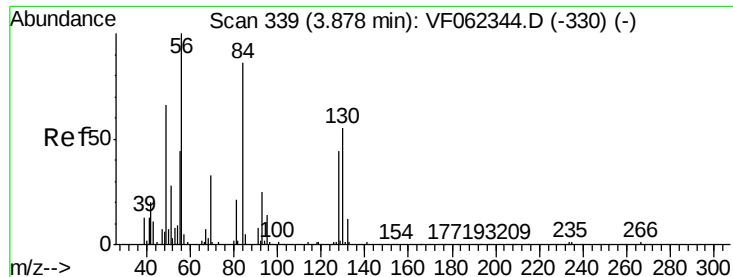
85 66.2 49.6 74.4



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

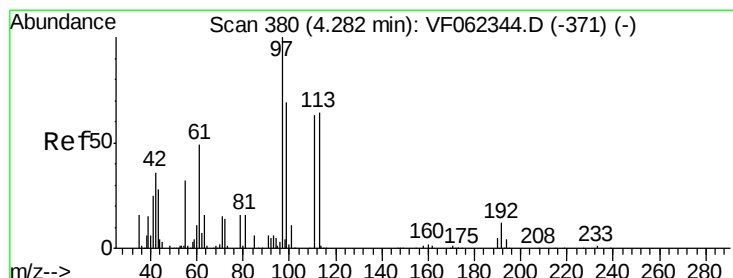
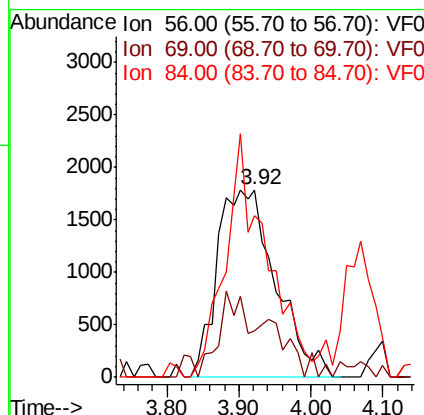
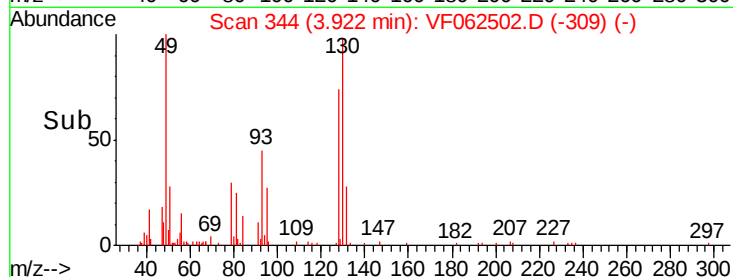
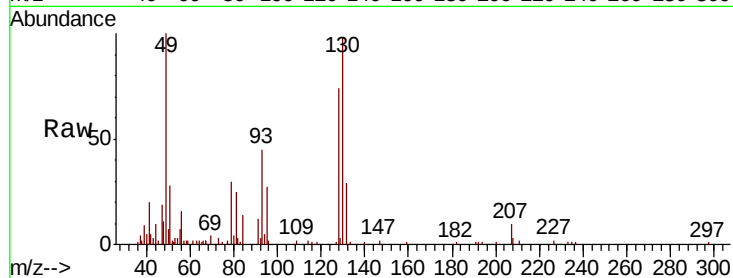




#31
Cvclohexane
Concen: 35.484 ug/l
RT: 3.92 min Scan# 344
Delta R.T. 0.04 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

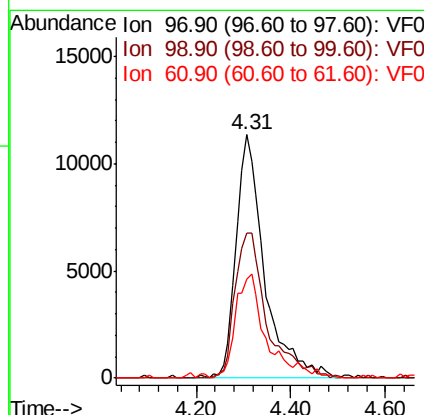
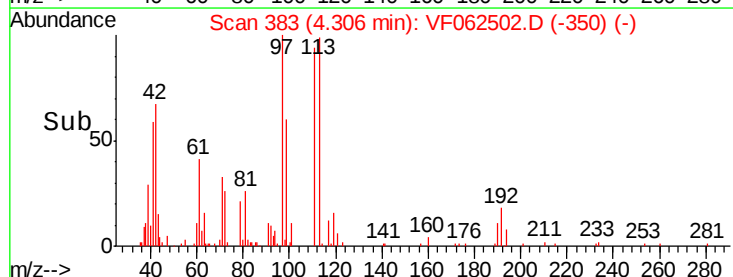
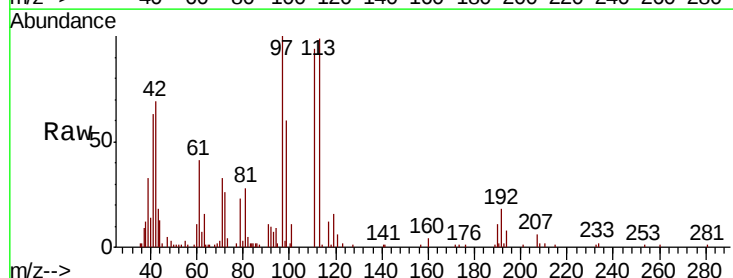
Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0002-01MS

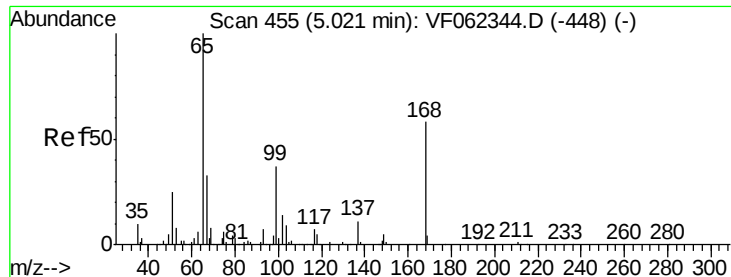
Tot Ion: 56 Resp: 10045
Ion Ratio Lower Upper
56 100
69 16.3 26.4 39.6#
84 86.2 69.0 103.6



#32
1,1,1-Trichloroethane
Concen: 115.242 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.02 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Tgt Ion: 97 Resp: 47325
Ion Ratio Lower Upper
97 100
99 66.5 52.6 78.8
61 42.6 39.4 59.0





#33

1,2-Dichloroethane-d4

Concen: 189.363 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

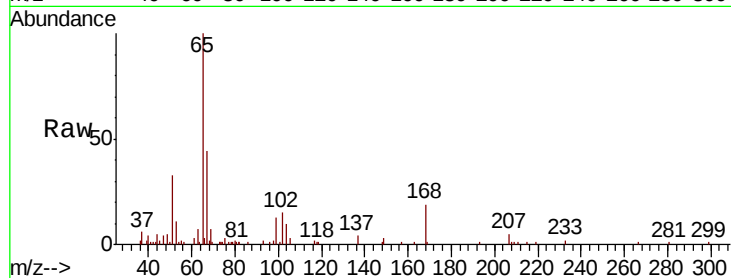
P026-SS012-0002-01MS

Tot Ion: 65 Resp: 49612

Ion Ratio Lower Upper

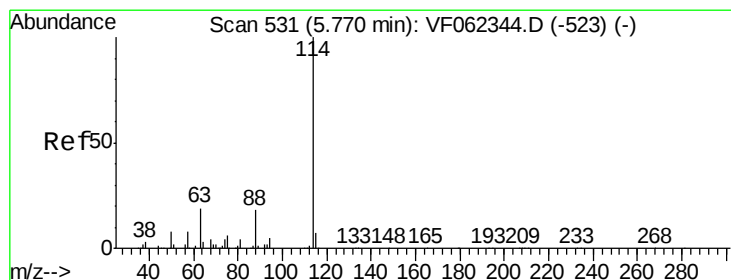
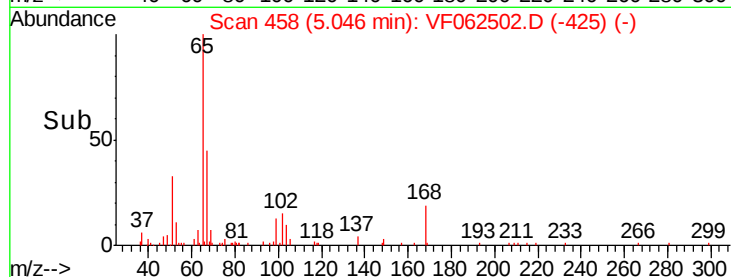
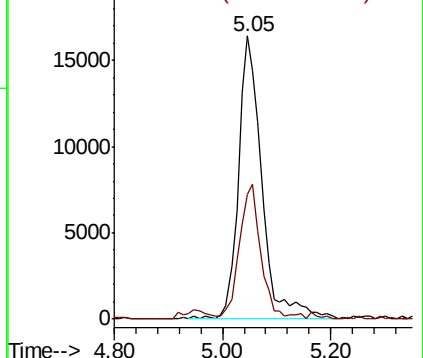
65 100

67 43.6 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

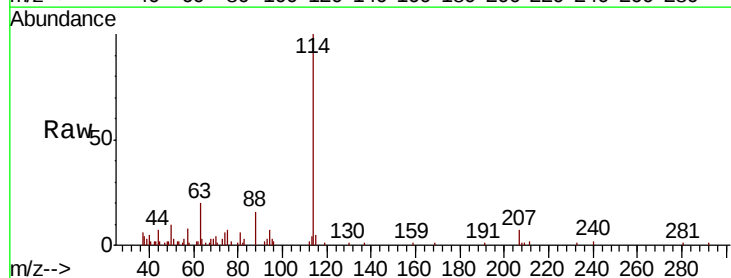
Tgt Ion: 114 Resp: 34133

Ion Ratio Lower Upper

114 100

63 20.1 0.0 37.4

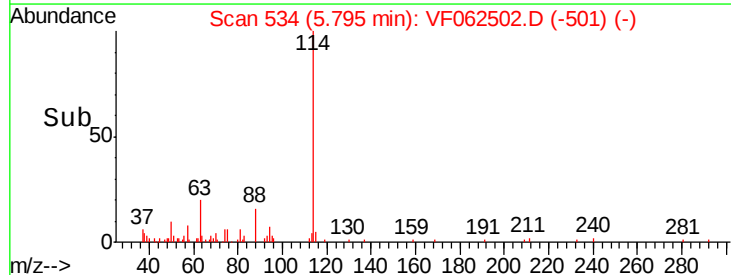
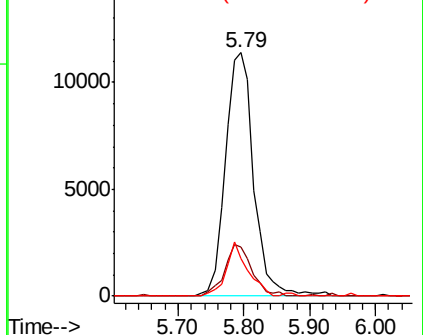
88 15.7 0.0 36.4

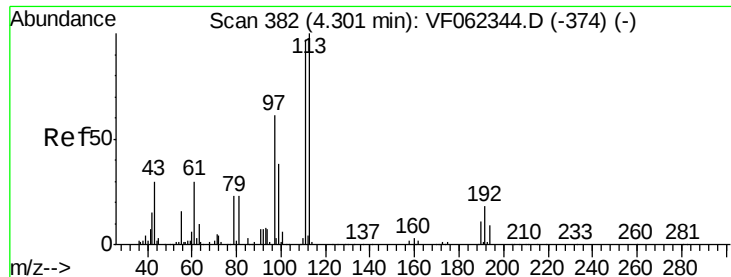


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

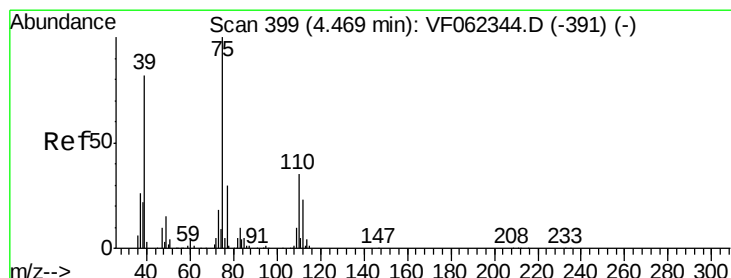
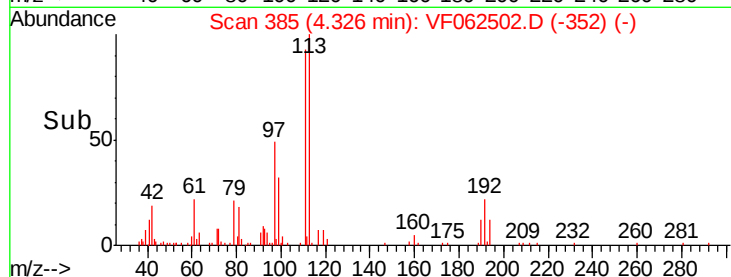
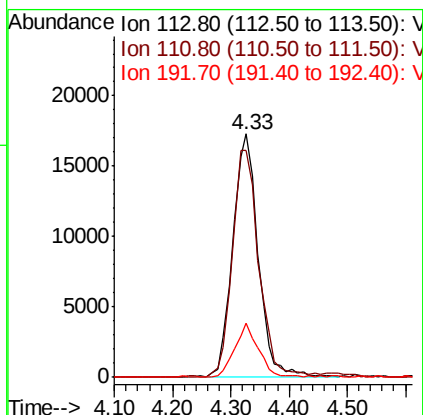
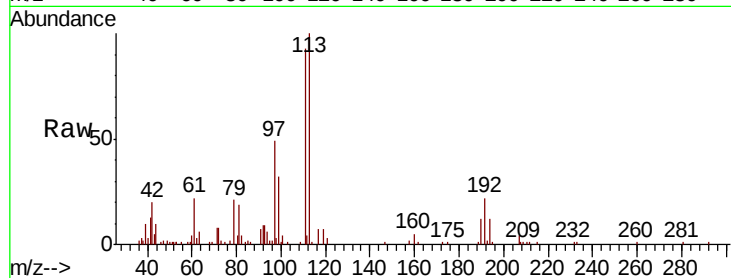




#35
 Dibromofluoromethane
 Concen: 193.780 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

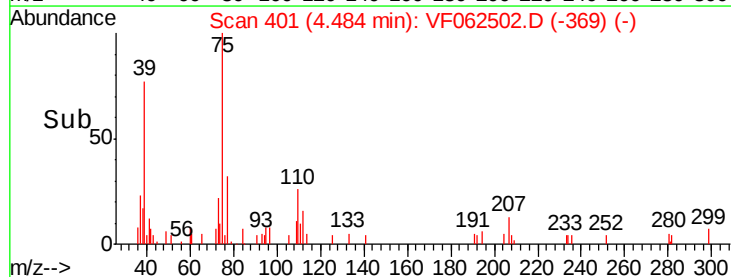
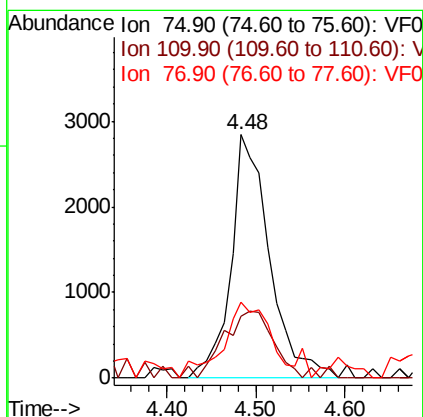
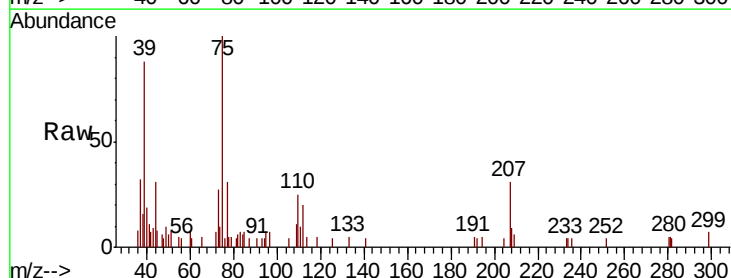
Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-0002-01MS

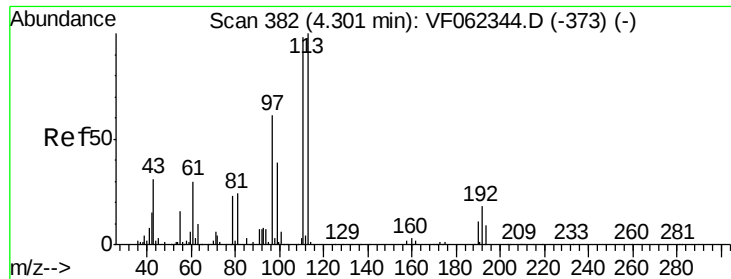
Tot Ion	Ratio	Lower	Upper
113	100		
111	96.9	79.4	119.0
192	20.6	16.0	24.0



#36
 1,1-Dichloropropene
 Concen: 29.293 ug/l
 RT: 4.48 min Scan# 401
 Delta R.T. 0.01 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.2	51.5
77	38.0	25.2	37.8#

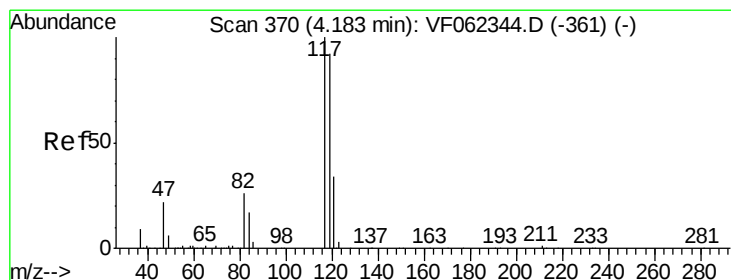
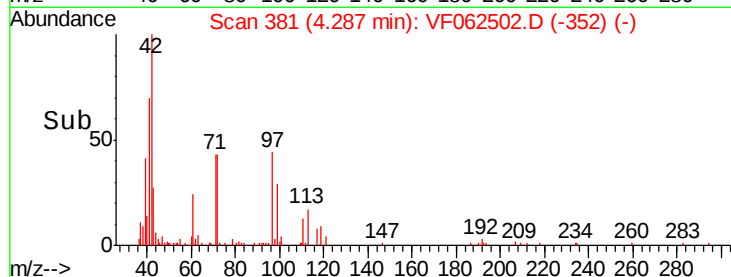
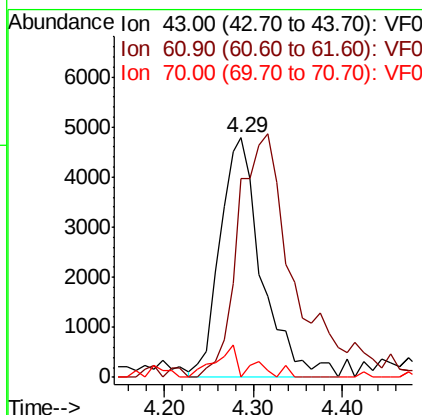
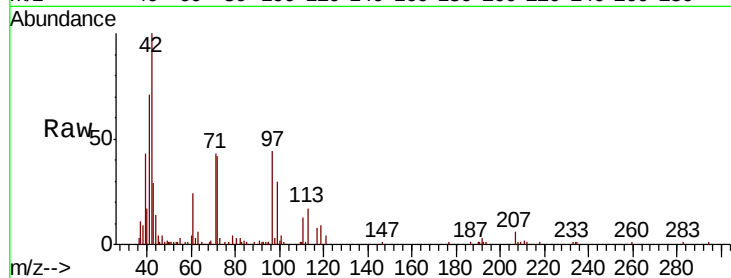




#37
Ethyl Acetate
Concen: 147.643 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

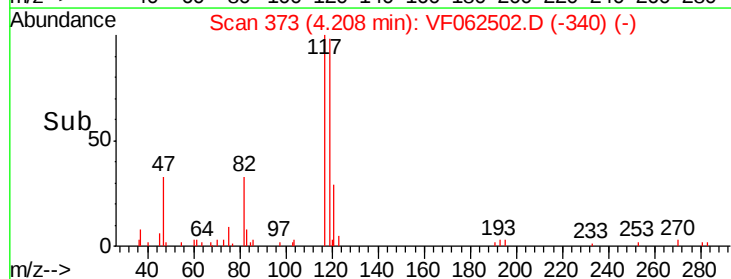
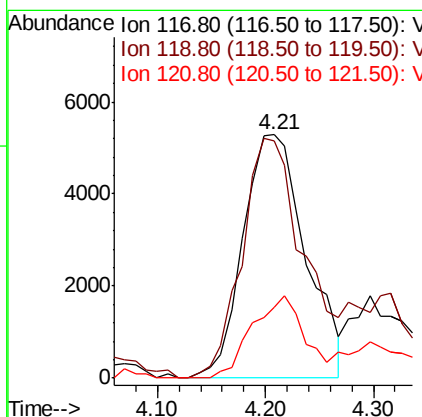
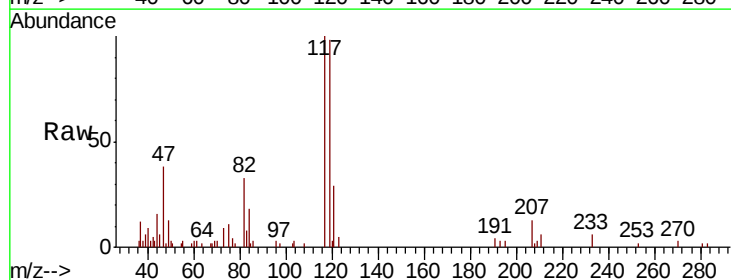
Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0002-01MS

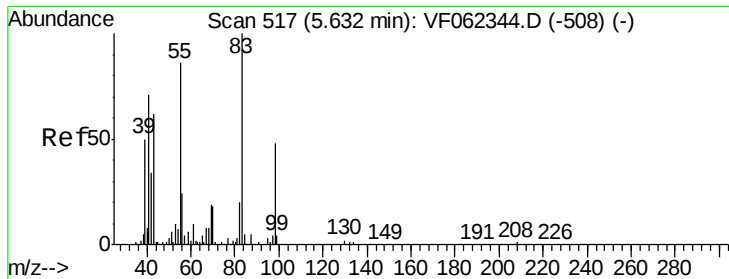
Tot Ion: 43 Resp: 15683
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 7.6 8.2 12.2#



#38
Carbon Tetrachloride
Concen: 71.103 ug/l
RT: 4.21 min Scan# 373
Delta R.T. 0.02 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Tgt Ion: 117 Resp: 21268
Ion Ratio Lower Upper
117 100
119 97.6 73.4 110.2
121 29.1 27.4 41.0

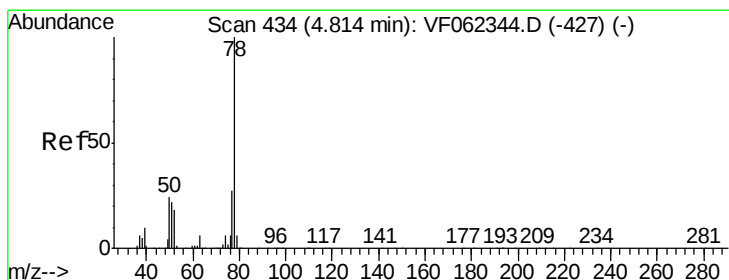
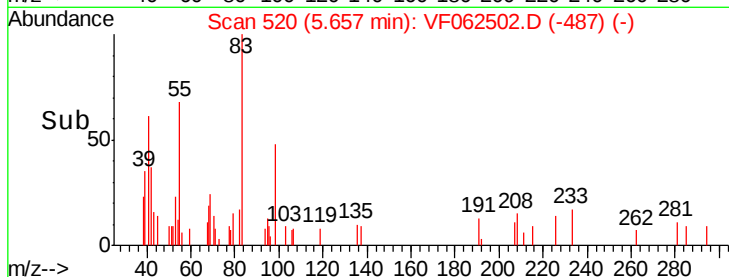
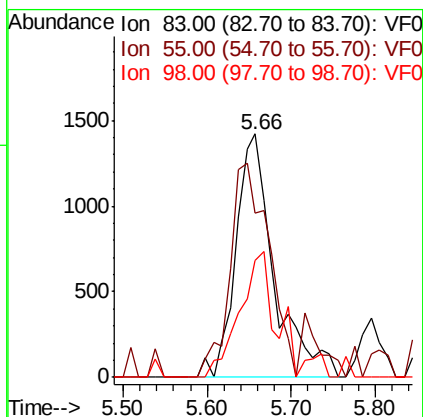
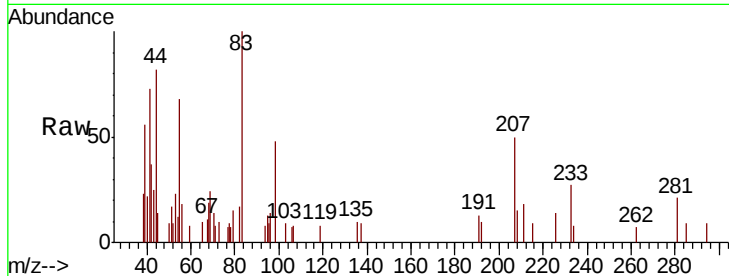




#39
Methvlcvclohexane
Concen: 15.357 ug/l
RT: 5.66 min Scan# 520
Delta R.T. 0.02 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

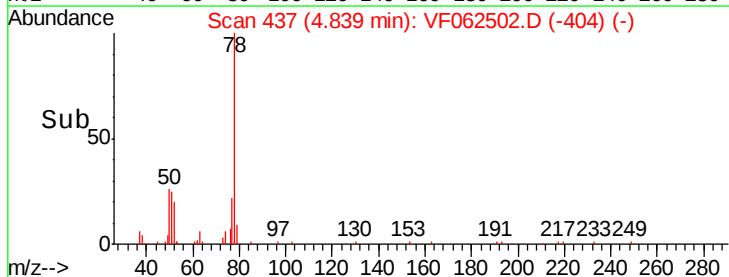
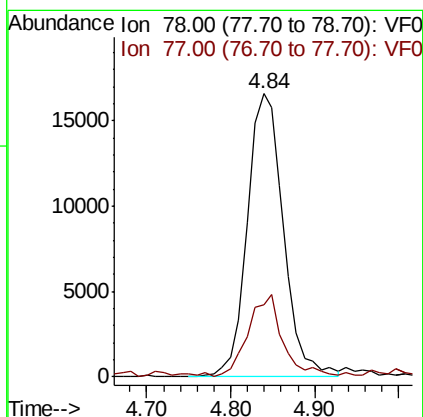
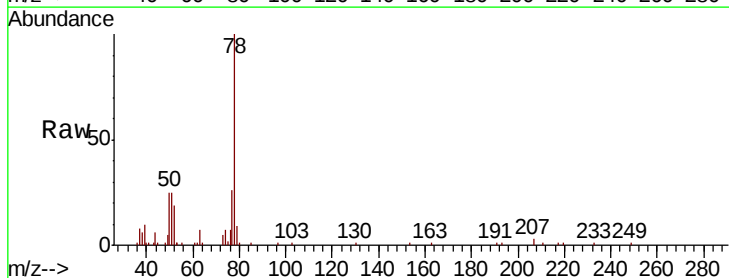
Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0002-01MS

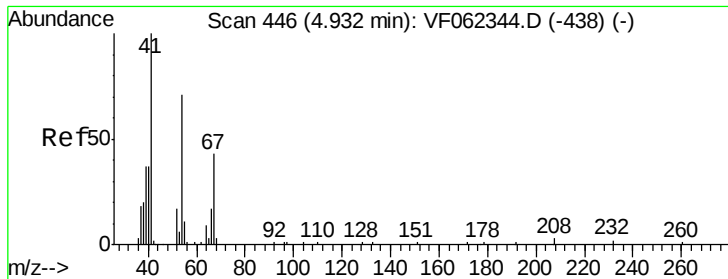
Tot Ion: 83 Resp: 4516
Ion Ratio Lower Upper
83 100
55 67.7 69.0 103.6#
98 48.0 38.6 58.0



#40
Benzene
Concen: 77.536 ug/l
RT: 4.84 min Scan# 437
Delta R.T. 0.02 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Tgt Ion: 78 Resp: 50063
Ion Ratio Lower Upper
78 100
77 24.7 21.6 32.4





#41

Methacrylonitrile

Concen: 56.765 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

Tot Ion: 41 Resp: 3991

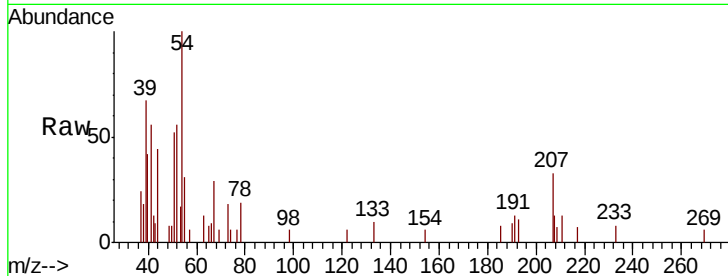
Ion Ratio Lower Upper

41 100

39 73.4 54.3 81.5

67 45.0 37.8 56.8

52 0.0 58.2 87.4#

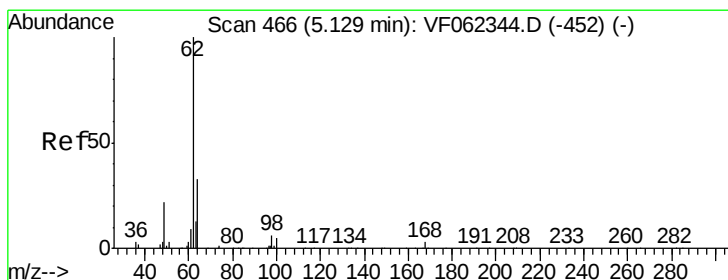
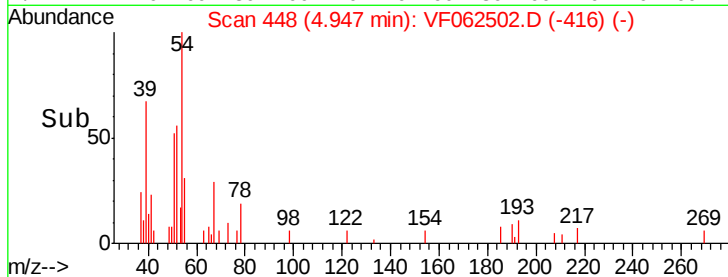
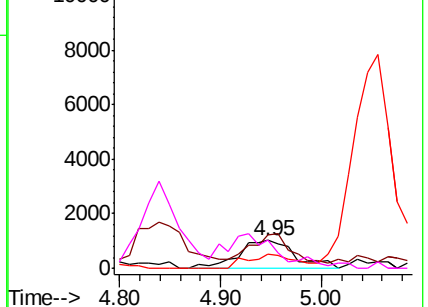


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 184.091 ug/l

RT: 5.14 min Scan# 468

Delta R.T. 0.01 min

Lab File: VF062502.D

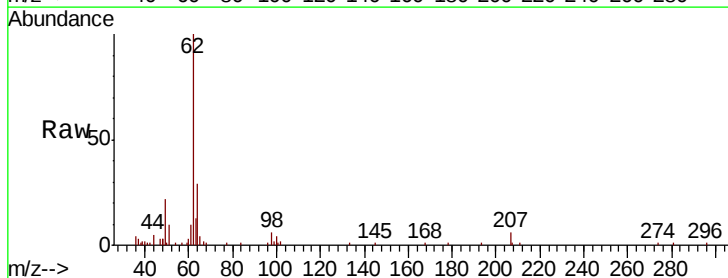
Acq: 12 May 2019 14:49

Tgt Ion: 62 Resp: 49713

Ion Ratio Lower Upper

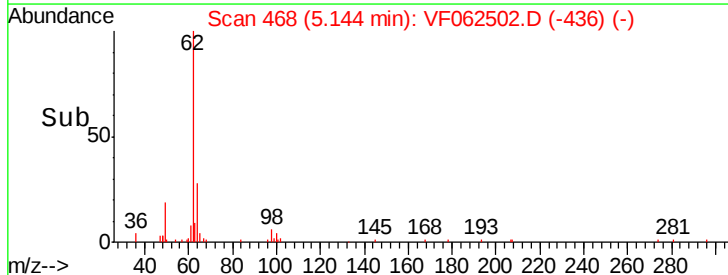
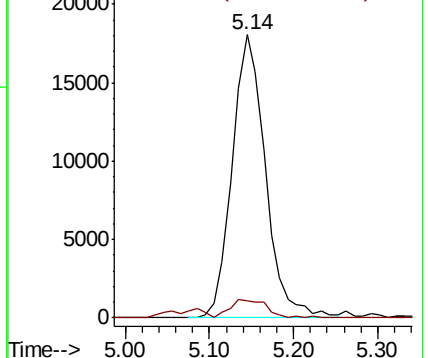
62 100

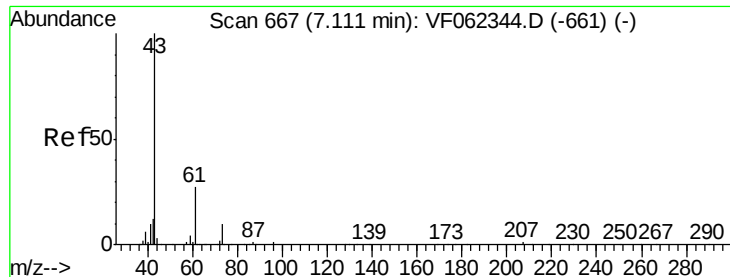
98 7.1 0.0 12.4



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0





#43

Isopropyl Acetate

Concen: 8.570 ug/l

RT: 7.15 min Scan# 671

Delta R.T. 0.03 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

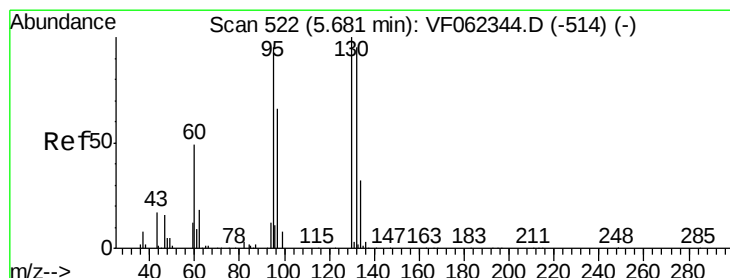
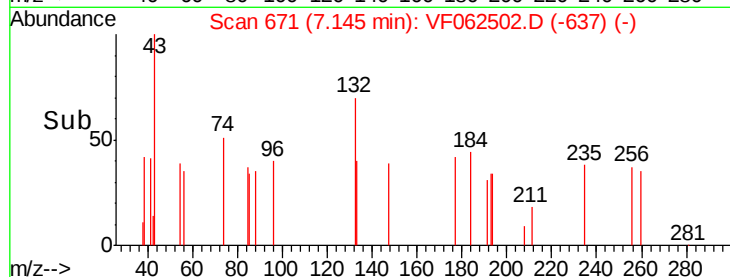
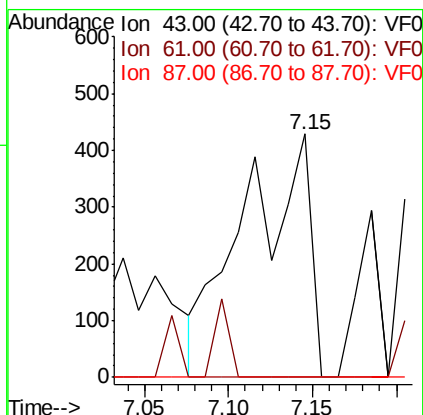
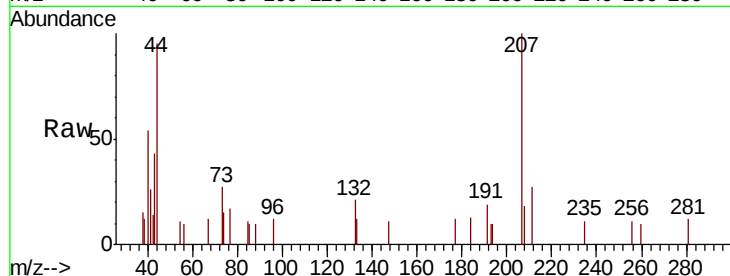
Tot Ion: 43 Resp: 1143

Ion Ratio Lower Upper

43 100

61 0.0 22.8 34.2#

87 0.0 0.6 1.0#



#44

Trichloroethene

Concen: 30.794 ug/l

RT: 5.71 min Scan# 525

Delta R.T. 0.02 min

Lab File: VF062502.D

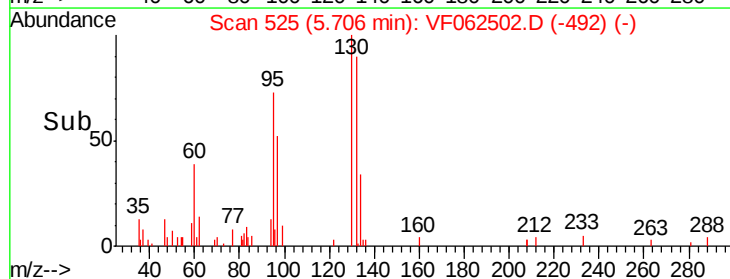
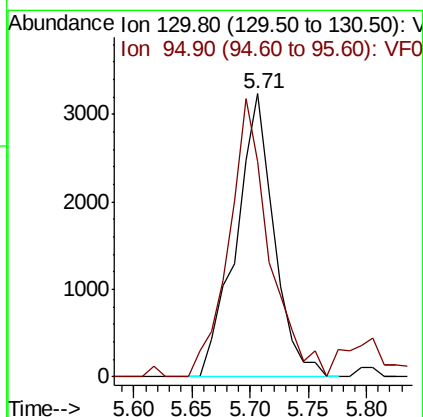
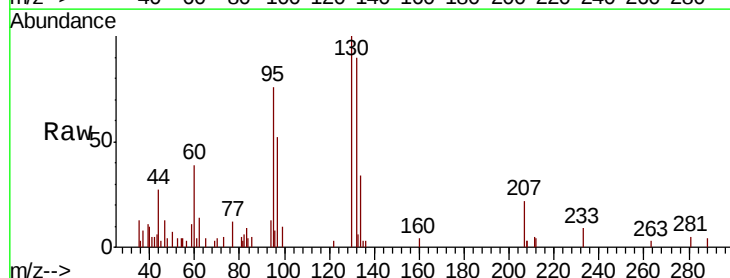
Acq: 12 May 2019 14:49

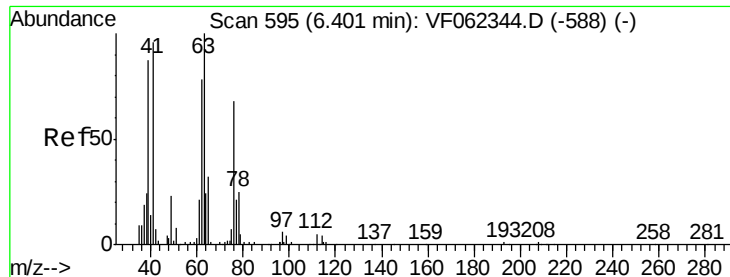
Tgt Ion: 130 Resp: 7304

Ion Ratio Lower Upper

130 100

95 76.3 0.0 189.0





#45

1,2-Dichloropropane

Concen: 173.049 ug/l

RT: 6.43 min Scan# 598

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

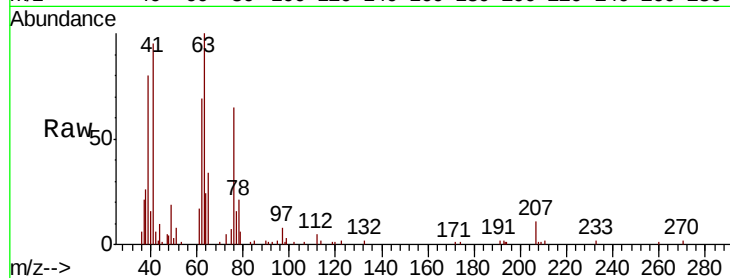
P026-SS012-0002-01MS

Tot Ion: 63 Resp: 25308

Ion Ratio Lower Upper

63 100

65 34.5 25.6 38.4



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 64.90 (64.60 to 65.60): VF0

6.43

10000

8000

6000

4000

2000

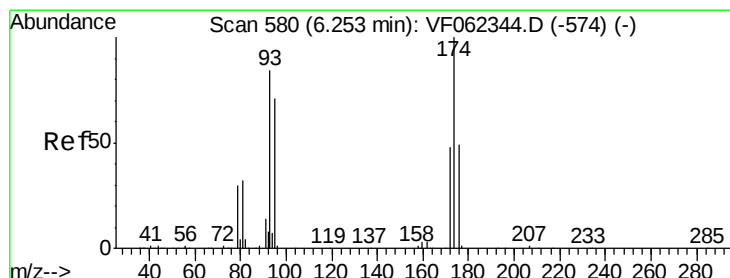
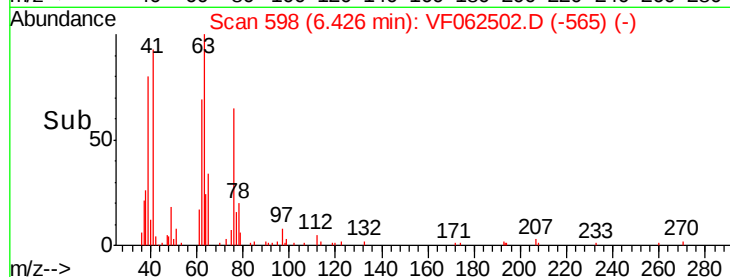
0

Time-->

6.30

6.40

6.50



#46

Dibromomethane

Concen: 153.813 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

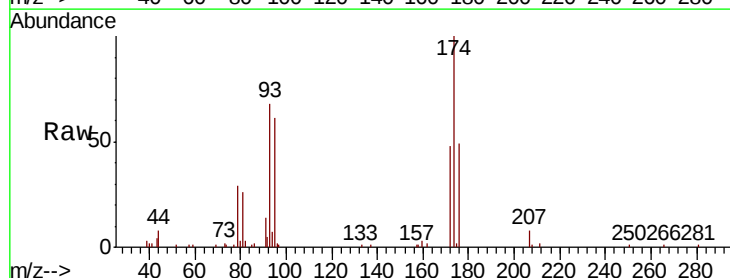
Tgt Ion: 93 Resp: 18651

Ion Ratio Lower Upper

93 100

95 82.6 68.4 102.6

174 124.4 99.6 149.4



Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V

12000

10000

8000

6000

4000

2000

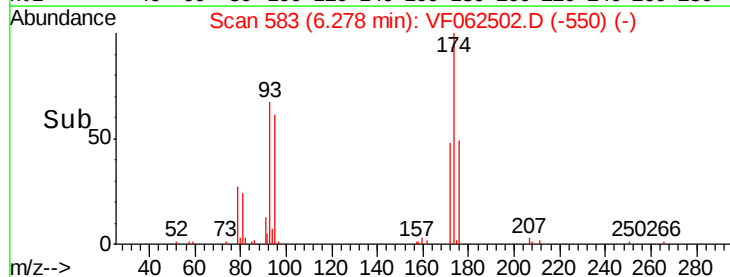
0

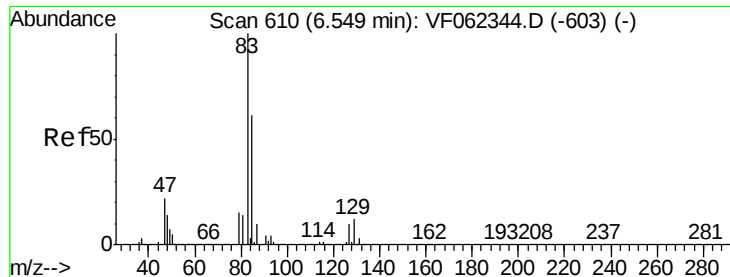
Time-->

6.20

6.30

6.40





#47

Bromodichloromethane

Concen: 146.301 ug/l

RT: 6.56 min Scan# 612

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

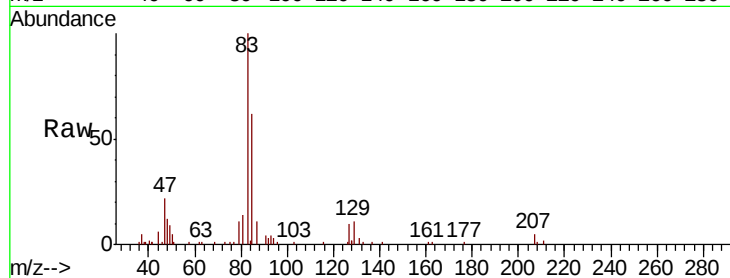
Tot Ion: 83 Resp: 44353

Ion Ratio Lower Upper

83 100

85 61.6 49.1 73.7

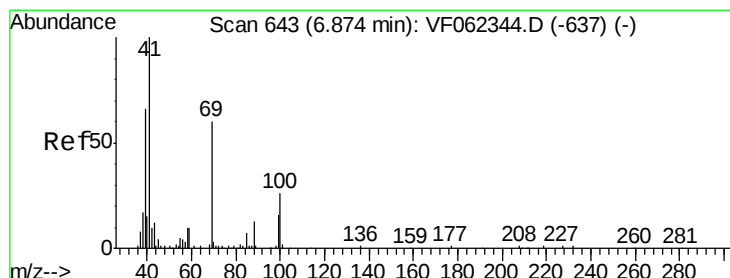
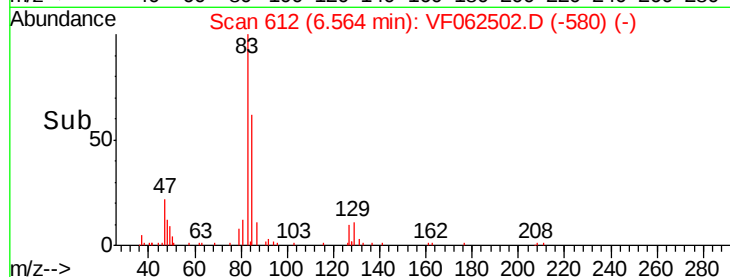
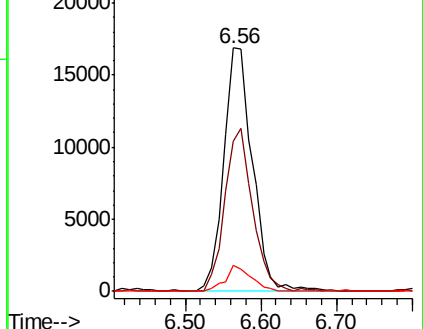
127 10.4 7.8 11.8



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 72.880 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

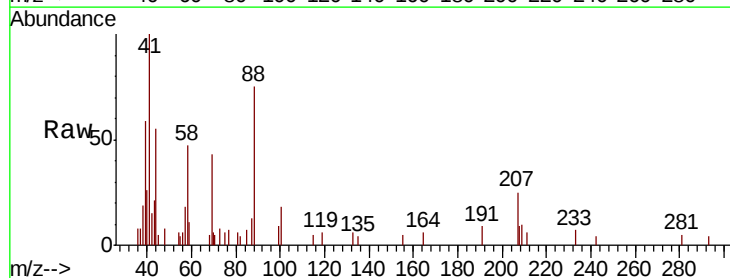
Tgt Ion: 41 Resp: 6869

Ion Ratio Lower Upper

41 100

69 45.2 48.6 72.8#

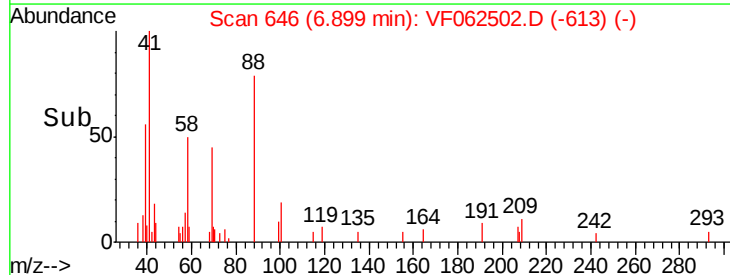
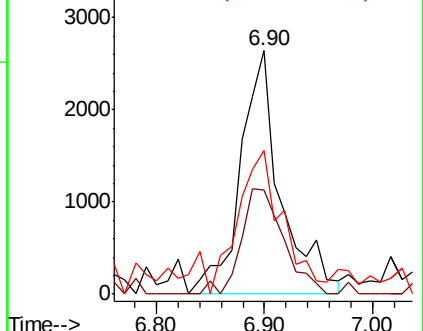
39 65.4 56.1 84.1

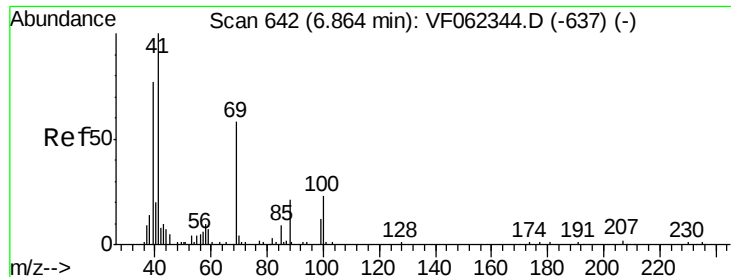


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 9373.410 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

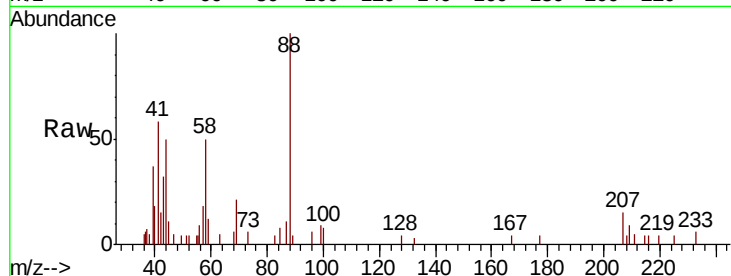
Tot Ion: 88 Resp: 8980

Ion Ratio Lower Upper

88 100

43 46.4 55.6 83.4#

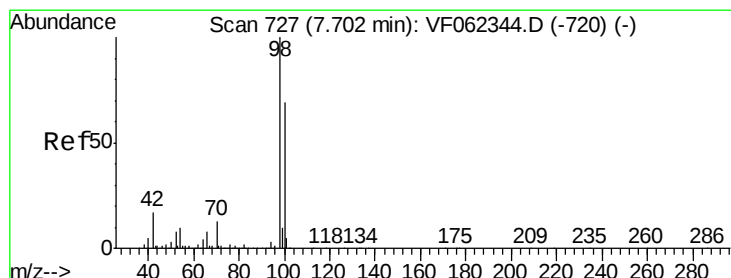
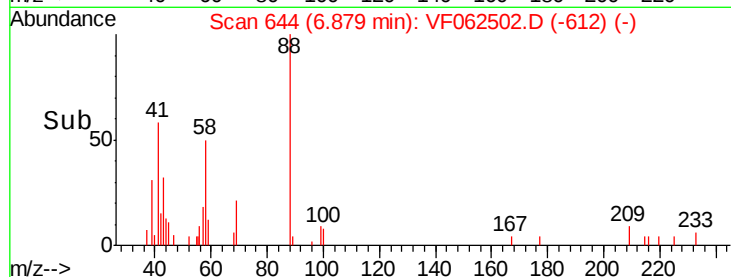
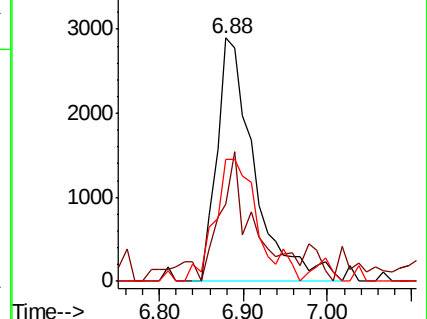
58 57.0 52.8 79.2



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: 32.147 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF062502.D

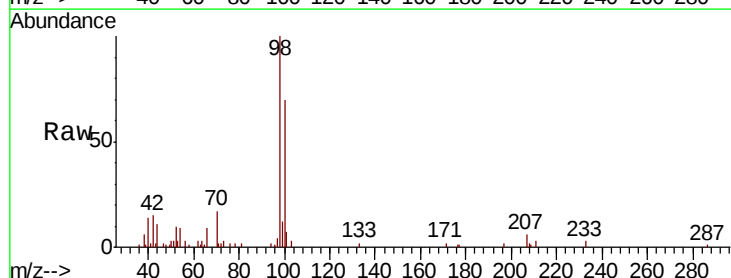
Acq: 12 May 2019 14:49

Tgt Ion: 98 Resp: 21161

Ion Ratio Lower Upper

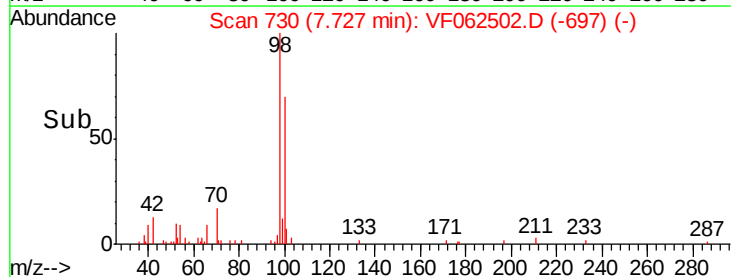
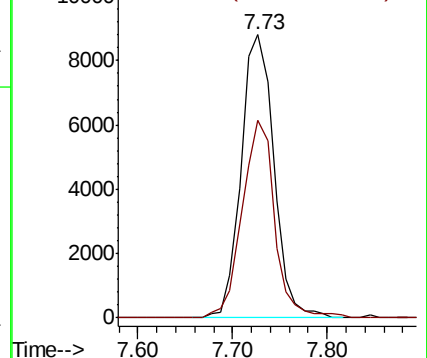
98 100

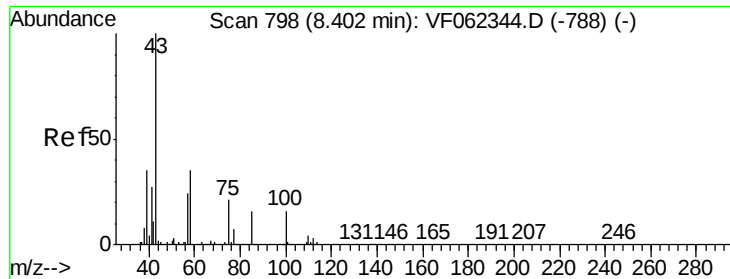
100 69.2 53.3 79.9



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: 220.138 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

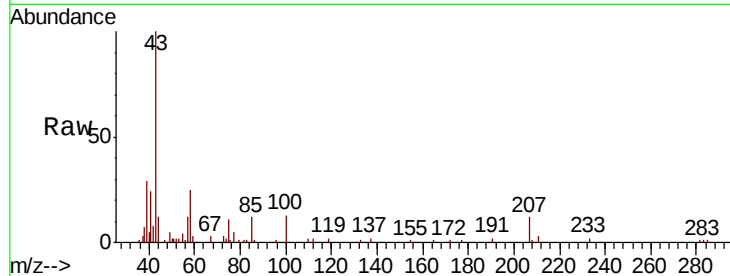
P026-SS012-0002-01MS

Tot Ion: 43 Resp: 22247

Ion Ratio Lower Upper

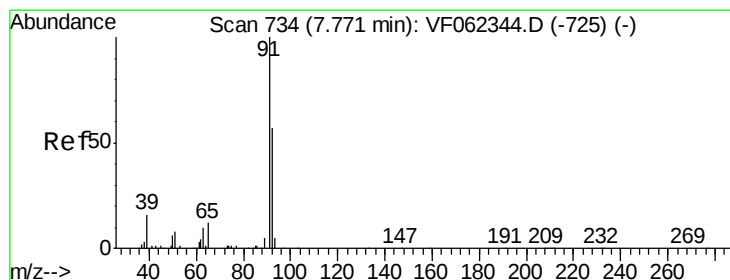
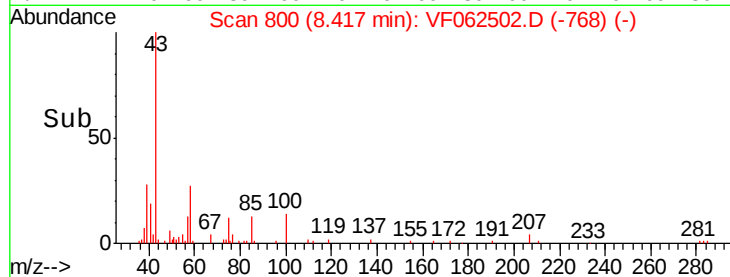
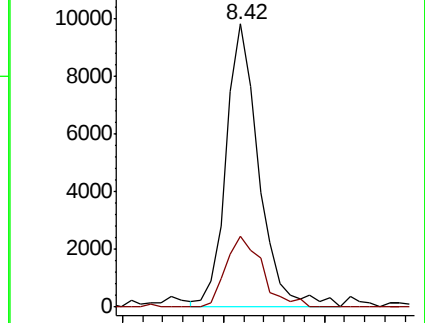
43 100

58 27.9 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 30.992 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.02 min

Lab File: VF062502.D

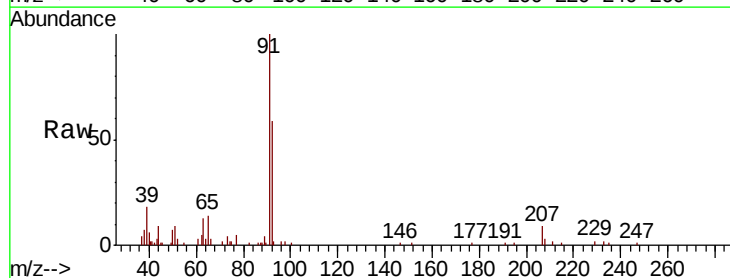
Acq: 12 May 2019 14:49

Tgt Ion: 92 Resp: 12345

Ion Ratio Lower Upper

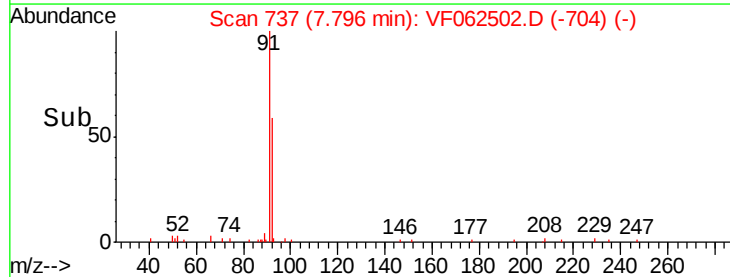
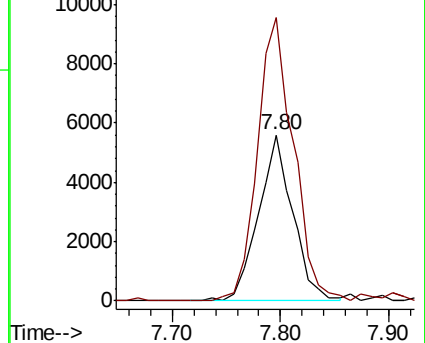
92 100

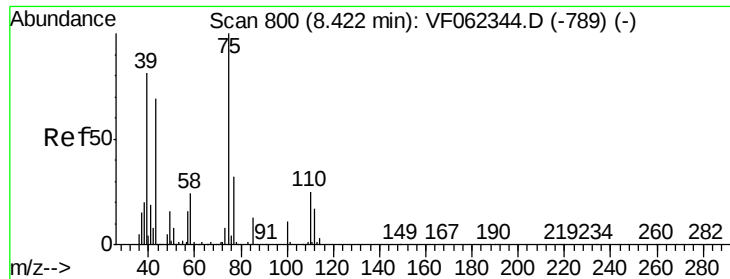
91 177.8 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 43.857 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

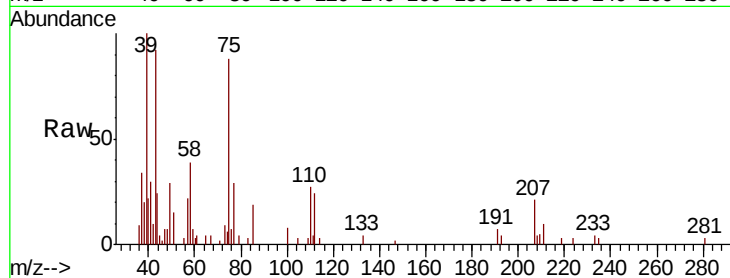
P026-SS012-0002-01MS

Tot Ion: 75 Resp: 10056

Ion Ratio Lower Upper

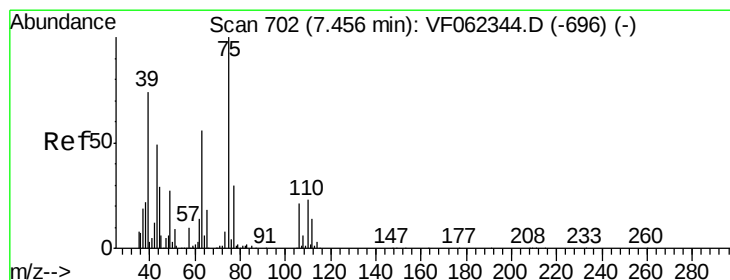
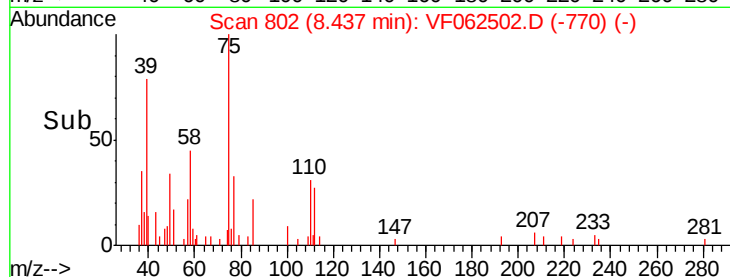
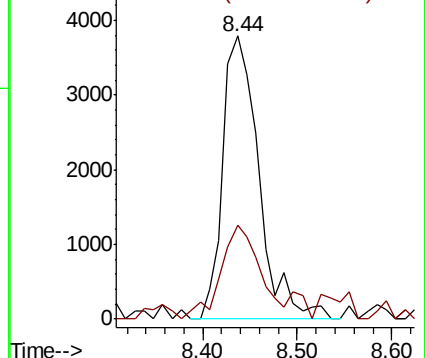
75 100

77 30.1 25.4 38.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0



#54

cis-1,3-Dichloropropene

Concen: 37.474 ug/l

RT: 7.48 min Scan# 705

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

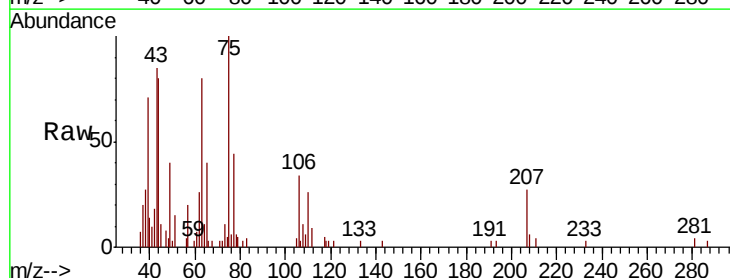
Tgt Ion: 75 Resp: 10000

Ion Ratio Lower Upper

75 100

77 41.5 24.0 36.0#

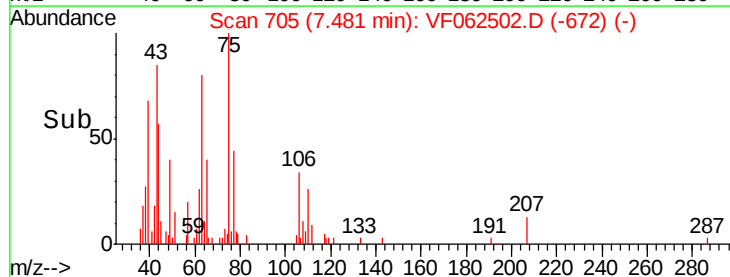
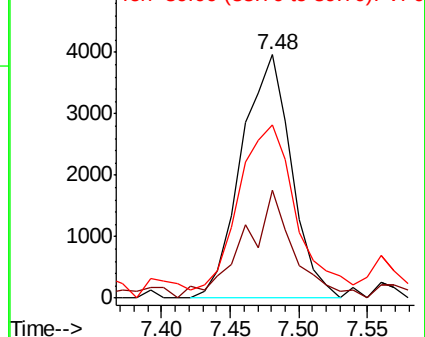
39 67.9 58.7 88.1

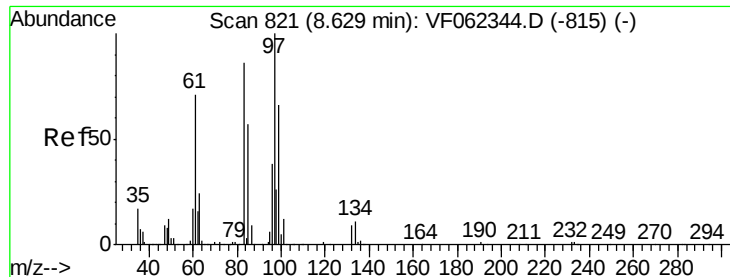


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 182.573 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

Tot Ion: 97 Resp: 23086

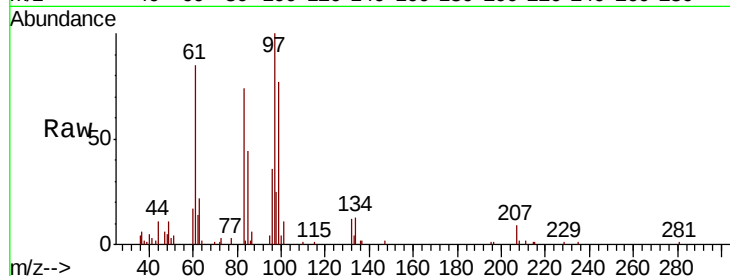
Ion Ratio Lower Upper

97 100

83 73.9 68.5 102.7

85 44.0 45.4 68.2#

99 76.9 52.7 79.1

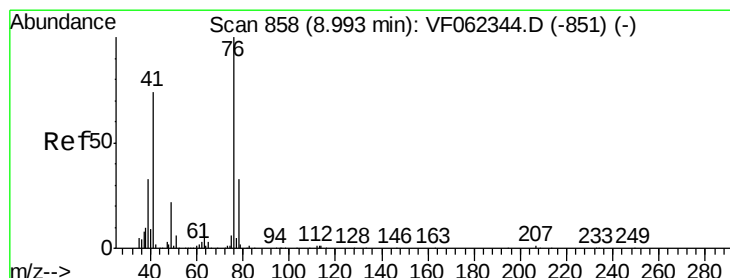
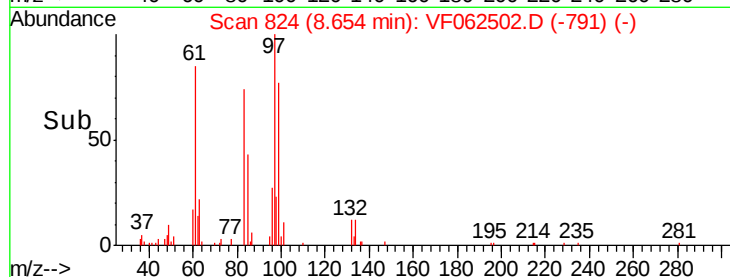
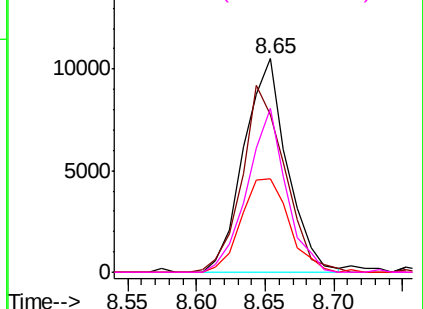


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#57

1,3-Dichloropropane

Concen: 147.104 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.01 min

Lab File: VF062502.D

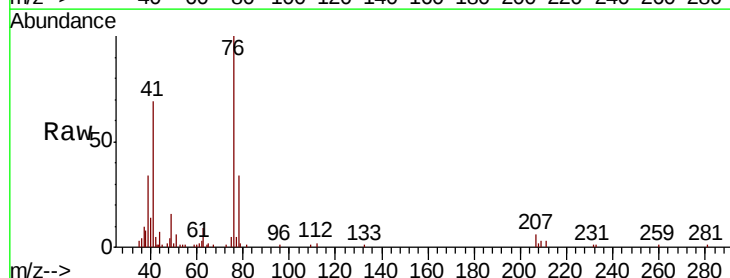
Acq: 12 May 2019 14:49

Tgt Ion: 76 Resp: 28097

Ion Ratio Lower Upper

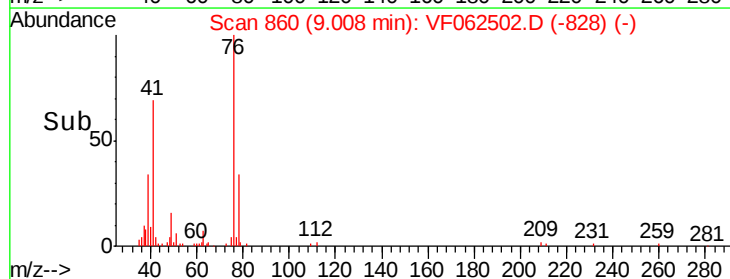
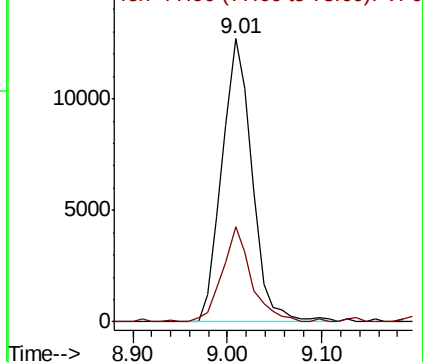
76 100

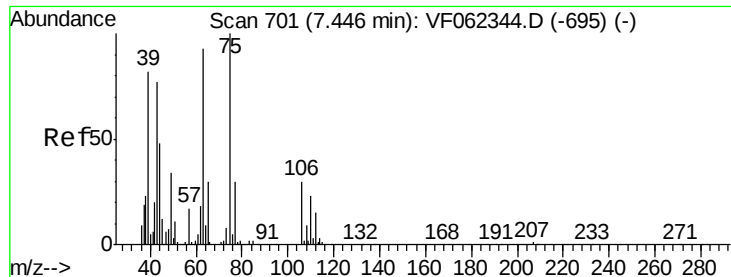
78 32.3 26.4 39.6



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 376.728 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

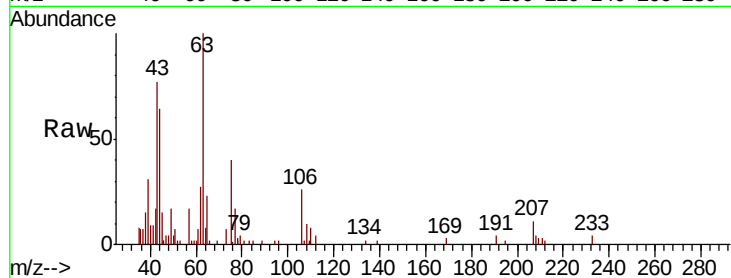
P026-SS012-0002-01MS

Tot Ion: 63 Resp: 15118

Ion Ratio Lower Upper

63 100

106 30.9 25.8 38.8



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

7.46

8000

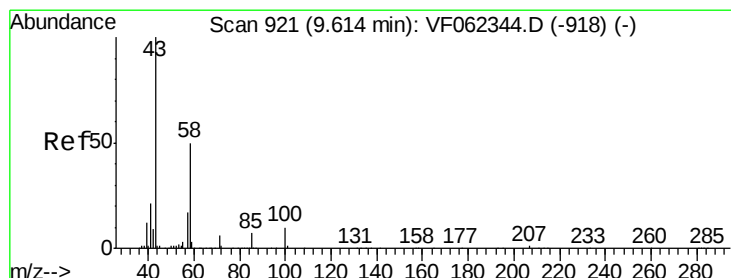
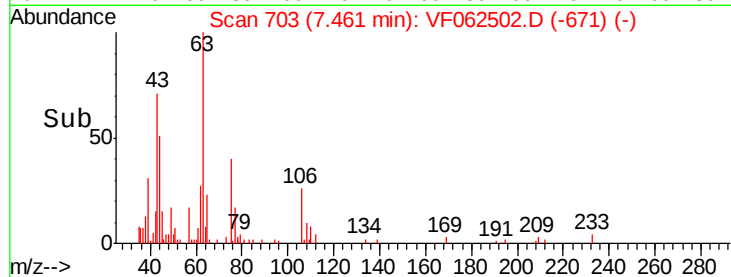
6000

4000

2000

0

Time-->



#59

2-Hexanone

Concen: 24.809 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.01 min

Lab File: VF062502.D

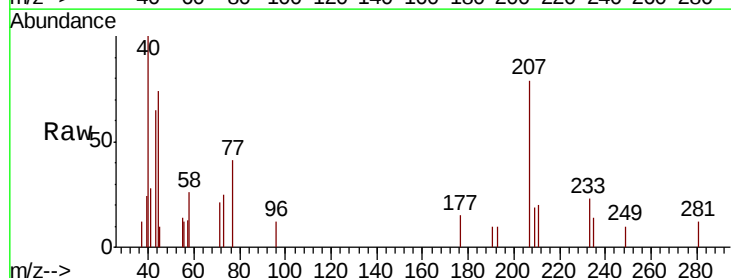
Acq: 12 May 2019 14:49

Tgt Ion: 43 Resp: 1734

Ion Ratio Lower Upper

43 100

58 36.4 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.63

800

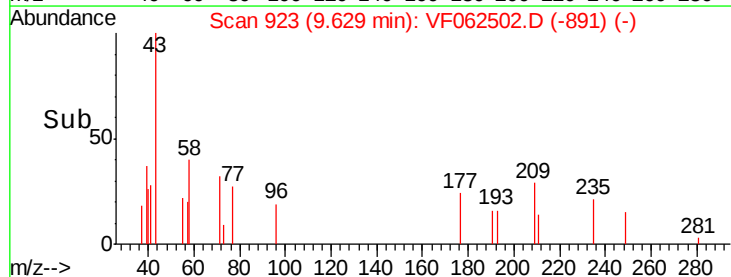
600

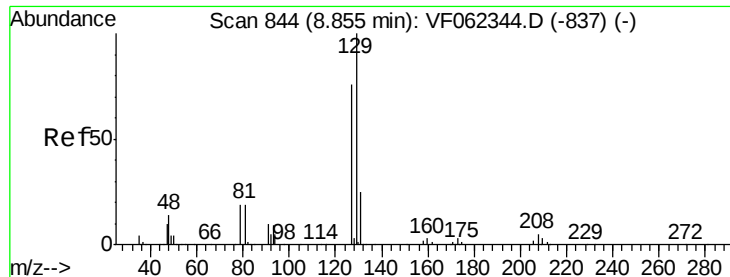
400

200

0

Time-->





#60

Dibromochloromethane

Concen: 126.460 ug/l

RT: 8.87 min Scan# 846

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

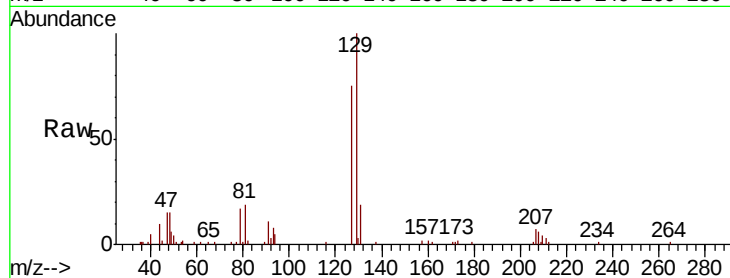
P026-SS012-0002-01MS

Tot Ion:129 Resp: 26153

Ion Ratio Lower Upper

129 100

127 77.5 38.5 115.3



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

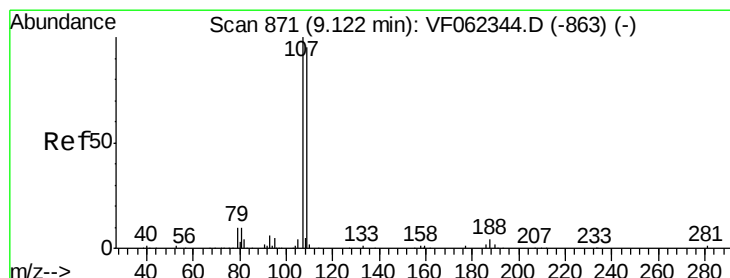
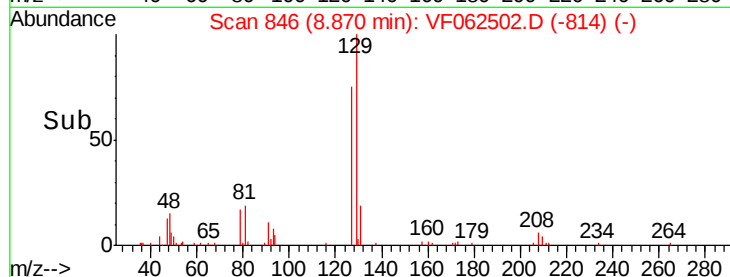
8.87

10000

5000

0

Time-->



#61

1,2-Dibromoethane

Concen: 103.104 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.02 min

Lab File: VF062502.D

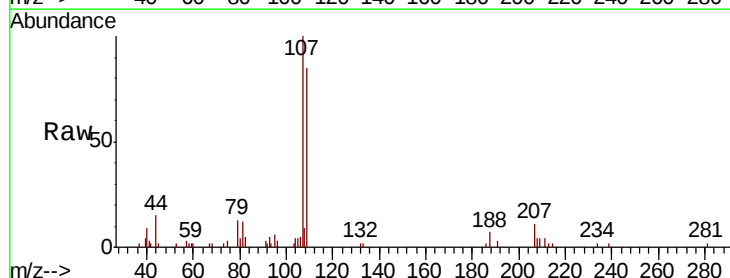
Acq: 12 May 2019 14:49

Tgt Ion:107 Resp: 15323

Ion Ratio Lower Upper

107 100

109 89.8 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.15

8000

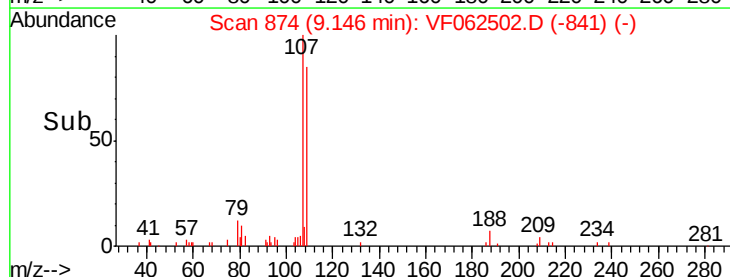
6000

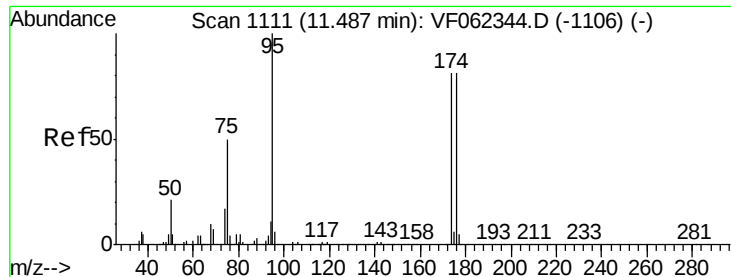
4000

2000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 22.045 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

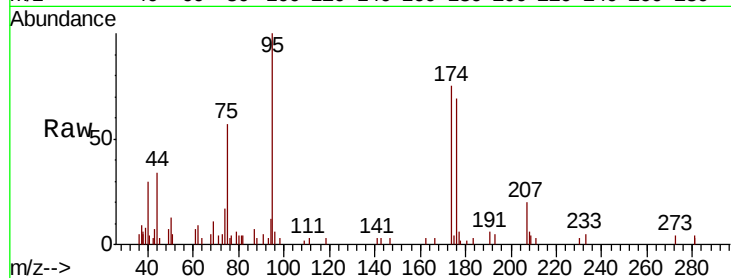
Tot Ion: 95 Resp: 6547

Ion Ratio Lower Upper

95 100

174 99.3 0.0 191.8

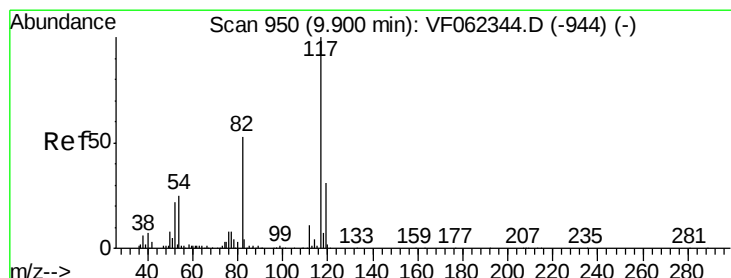
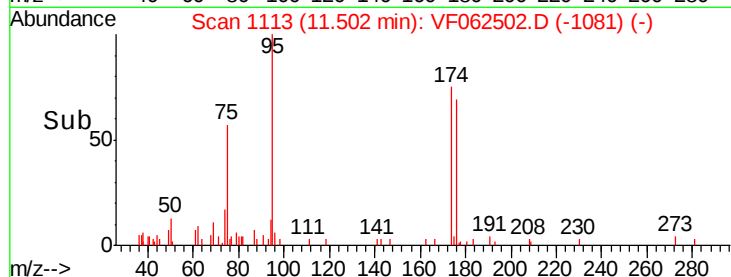
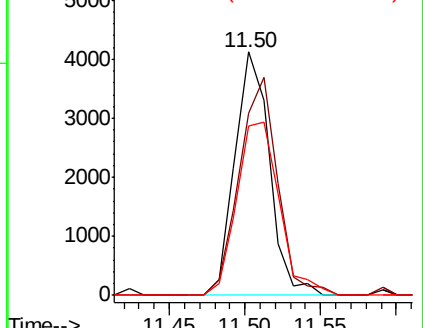
176 88.0 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.02 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

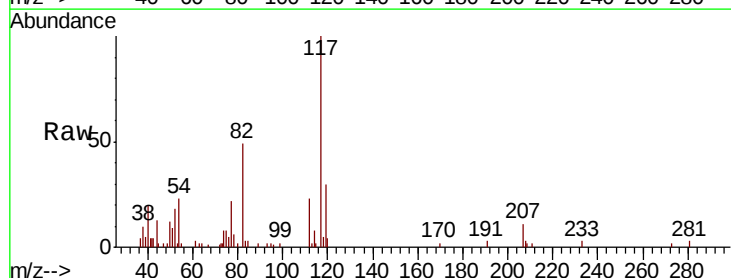
Tgt Ion: 117 Resp: 14717

Ion Ratio Lower Upper

117 100

82 48.7 42.2 63.2

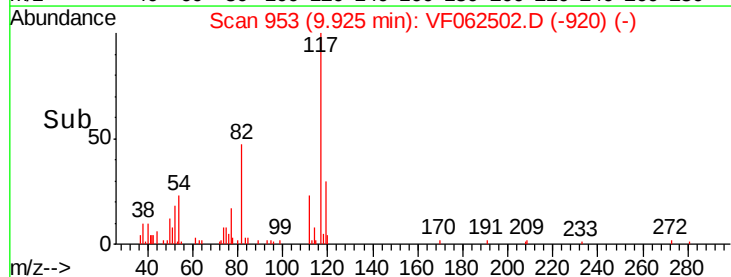
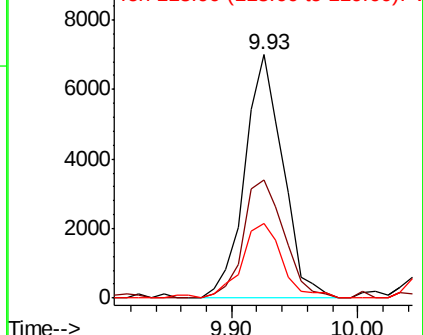
119 30.4 25.0 37.4

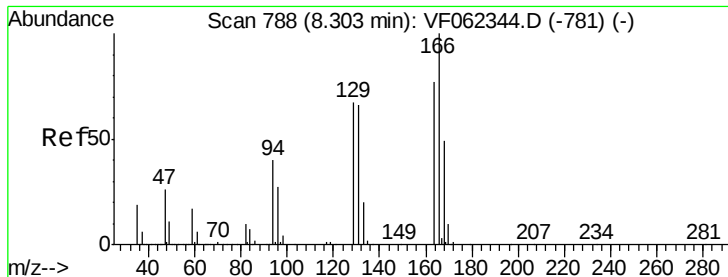


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 36.785 ug/l

RT: 8.32 min Scan# 790

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

Tot Ion:164 Resp: 4395

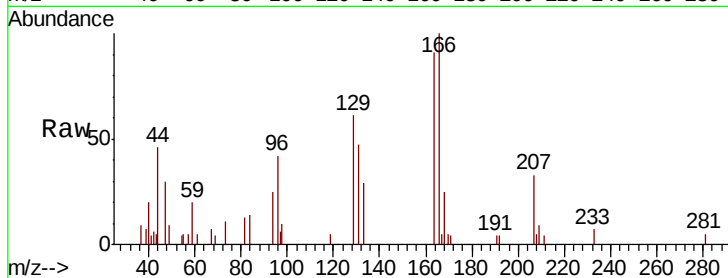
Ion Ratio Lower Upper

164 100

166 110.2 104.2 156.4

129 67.0 69.6 104.4#

131 51.3 68.8 103.2#



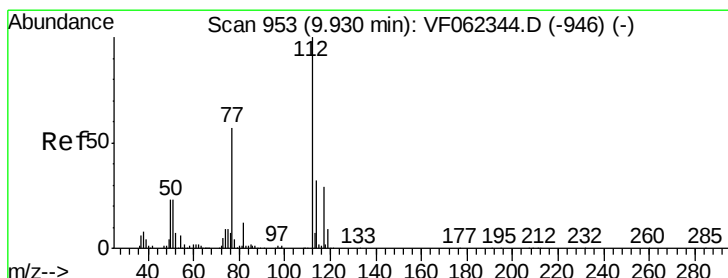
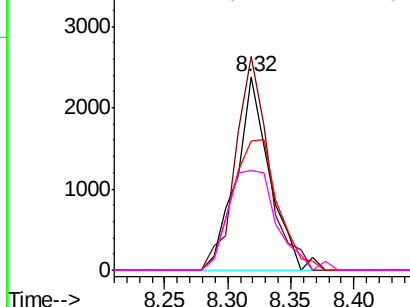
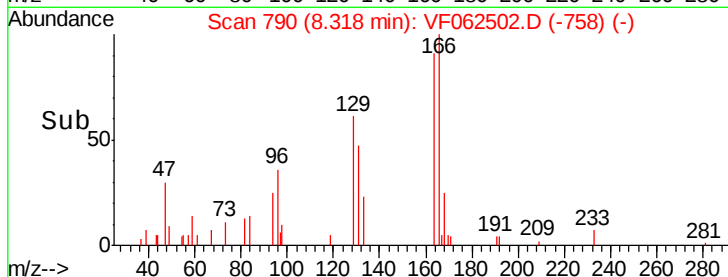
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 51.347 ug/l

RT: 9.94 min Scan# 955

Delta R.T. 0.01 min

Lab File: VF062502.D

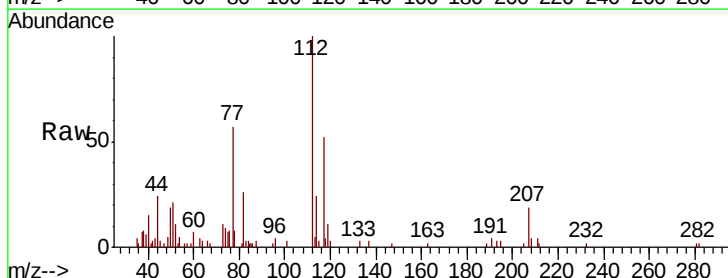
Acq: 12 May 2019 14:49

Tgt Ion:112 Resp: 12503

Ion Ratio Lower Upper

112 100

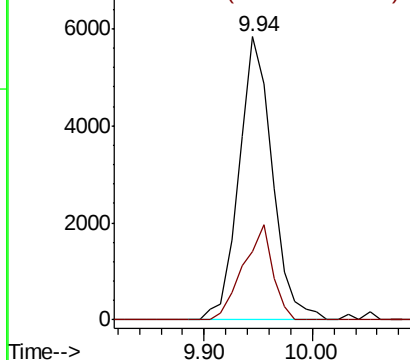
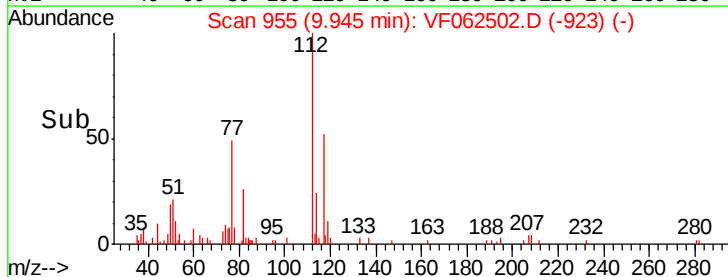
114 24.3 25.4 38.0#

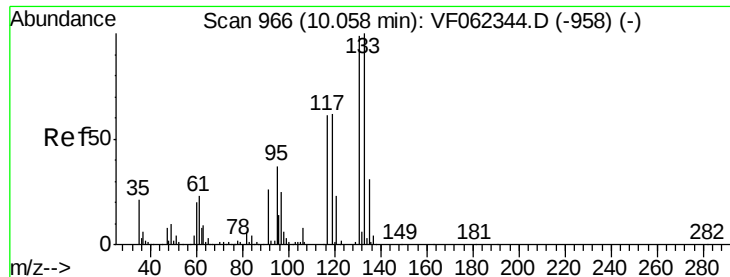


Abundance

Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 194.059 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

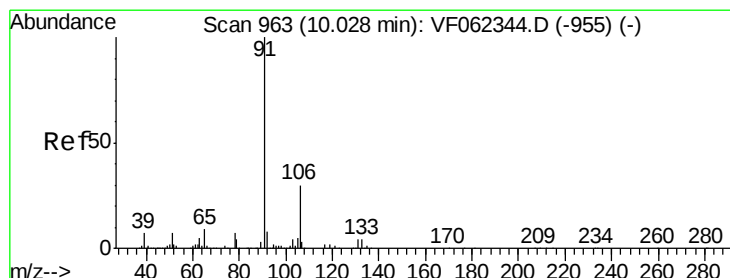
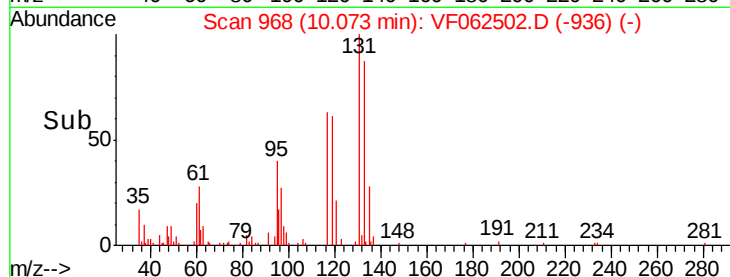
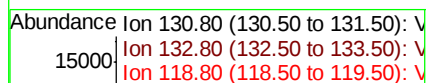
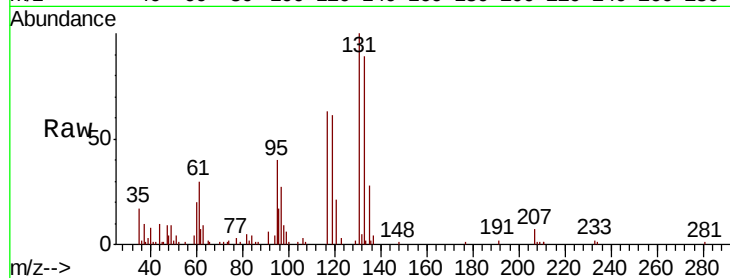
Tot Ion:131 Resp: 23838

Ion Ratio Lower Upper

131 100

133 106.6 50.2 150.7

119 64.5 31.6 95.0



#67

Ethyl Benzene

Concen: 37.881 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF062502.D

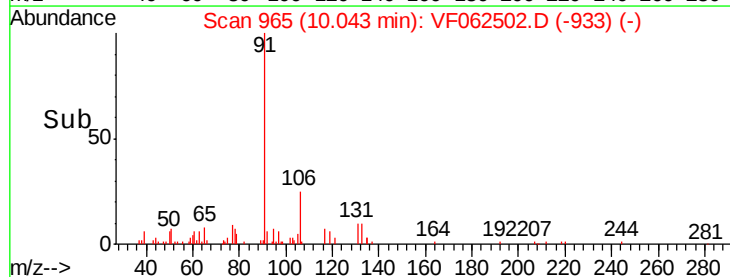
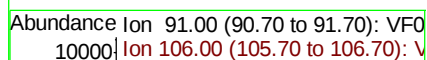
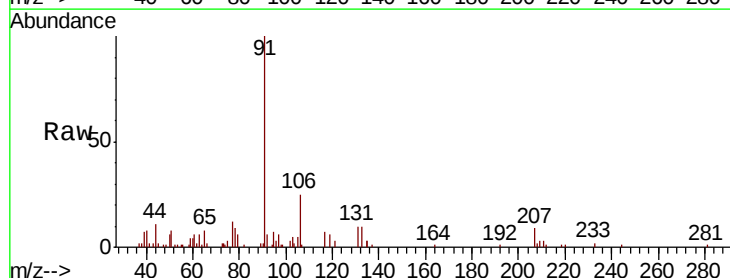
Acq: 12 May 2019 14:49

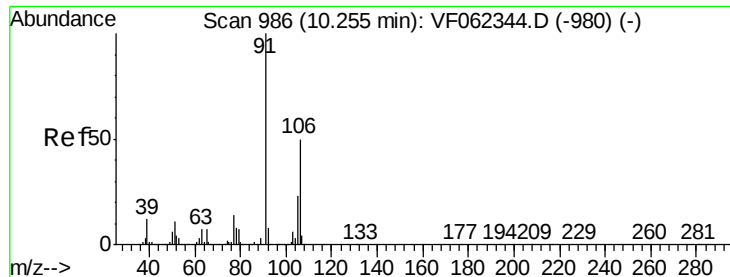
Tgt Ion: 91 Resp: 16152

Ion Ratio Lower Upper

91 100

106 24.5 24.1 36.1





#68

m/p-Xylenes

Concen: 60.296 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

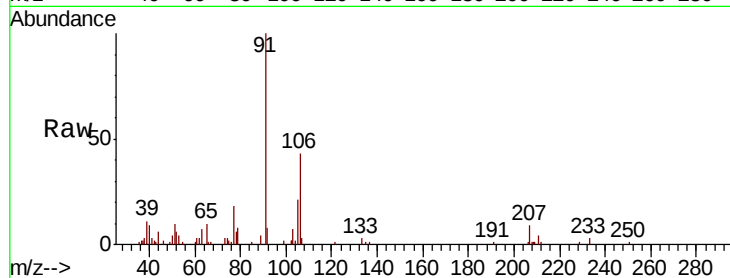
P026-SS012-0002-01MS

Tot Ion:106 Resp: 9486

Ion Ratio Lower Upper

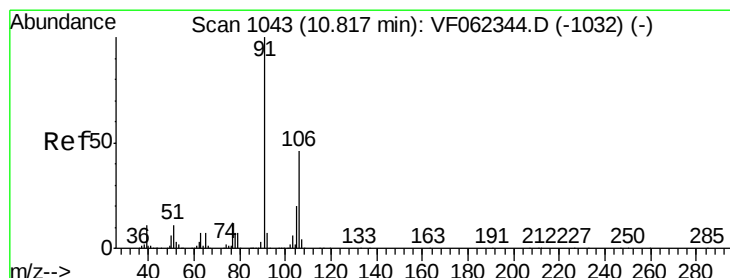
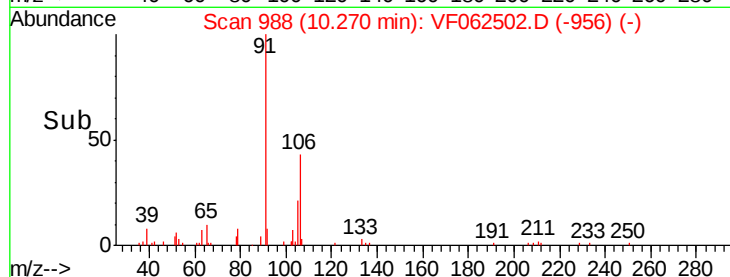
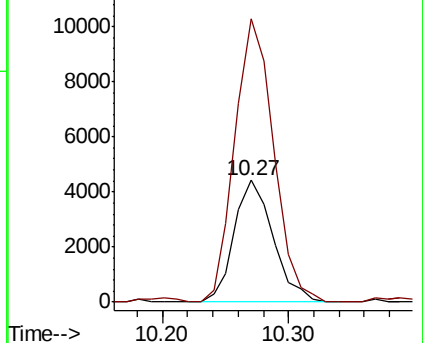
106 100

91 231.6 167.4 251.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 51.824 ug/l

RT: 10.82 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VF062502.D

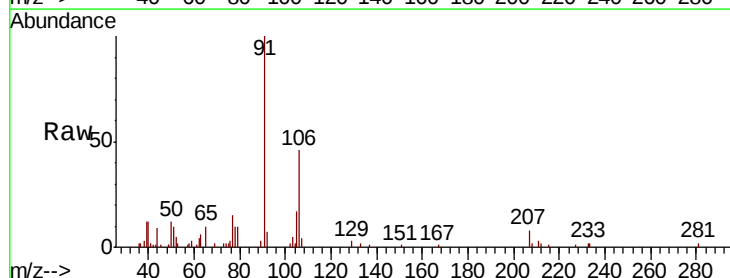
Acq: 12 May 2019 14:49

Tgt Ion:106 Resp: 8810

Ion Ratio Lower Upper

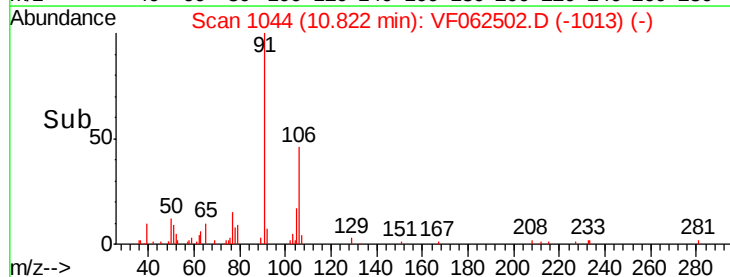
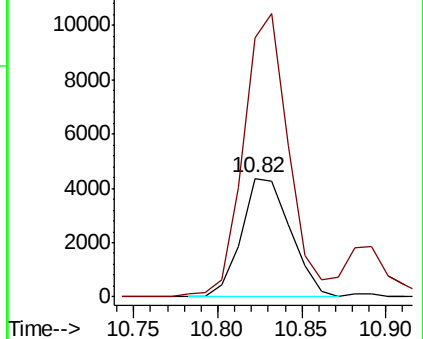
106 100

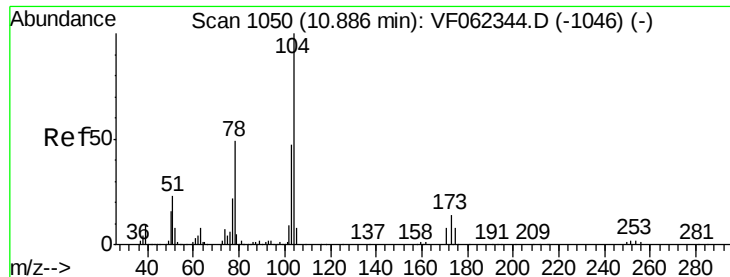
91 219.3 111.3 333.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

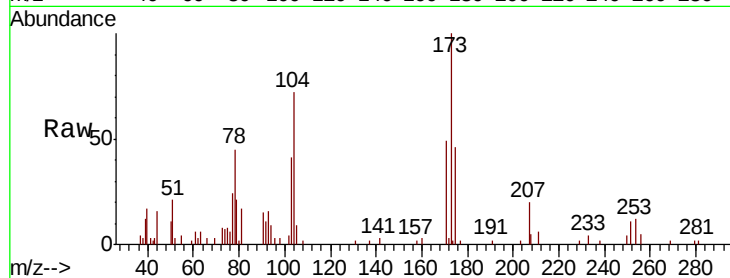




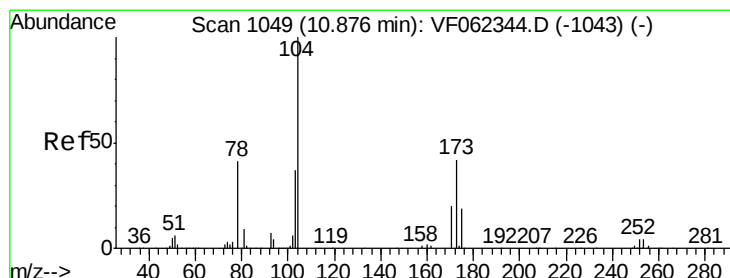
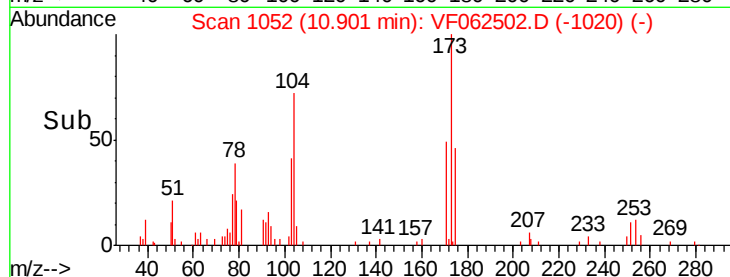
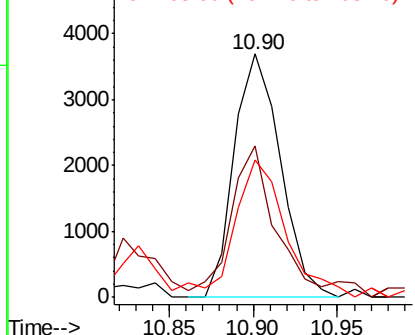
#70
Stvrene
Concen: 27.624 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0002-01MS

Tot Ion:104 Resp: 7038
Ion Ratio Lower Upper
104 100
78 63.7 39.5 59.3#
103 60.1 38.4 57.6#

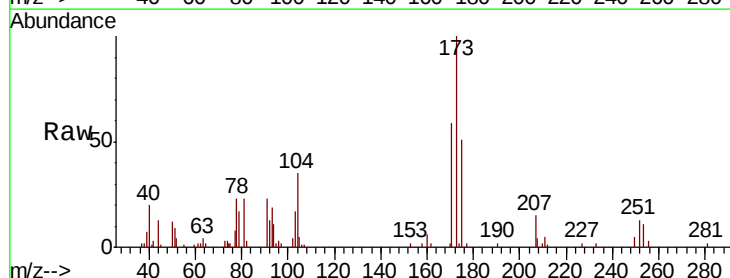


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V

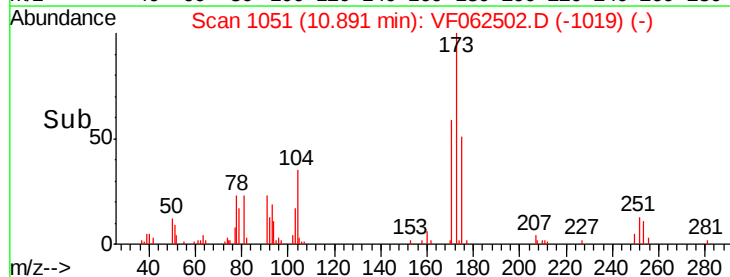
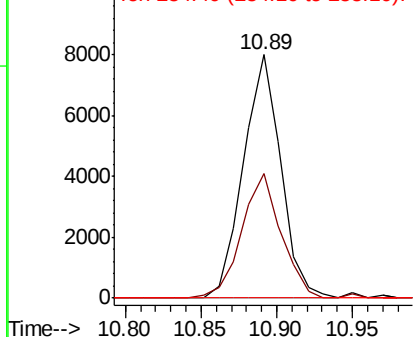


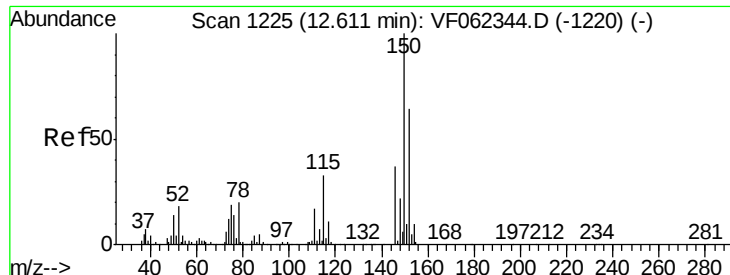
#71
Bromoform
Concen: 204.479 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Tgt Ion:173 Resp: 13761
Ion Ratio Lower Upper
173 100
175 53.8 23.8 71.2
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



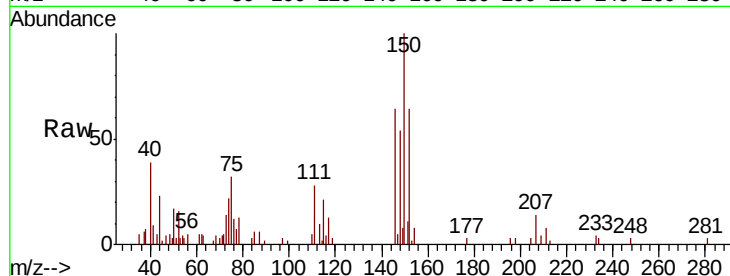


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0002-01MS

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.8	26.4	79.2
150	180.8	0.0	335.0

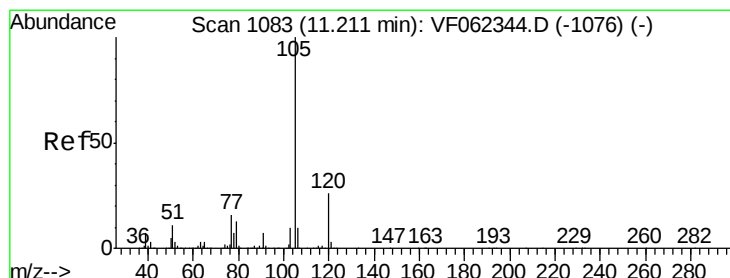
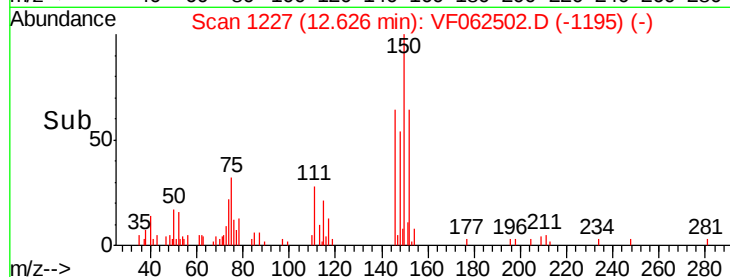
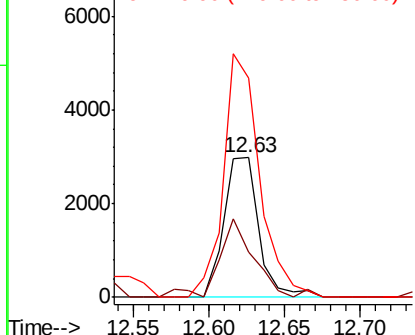


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

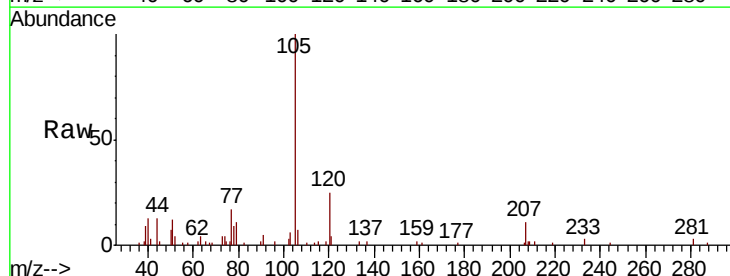
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene
Concen: 49.204 ug/l
RT: 11.23 min Scan# 1085
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

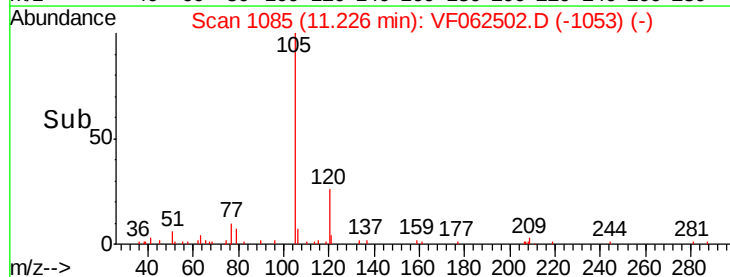
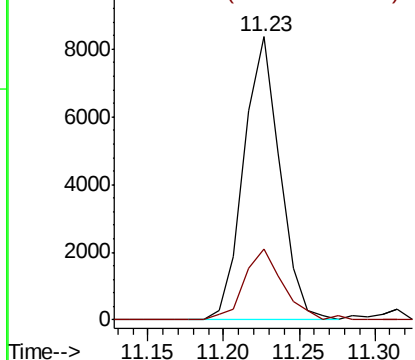
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.1	12.7	38.0

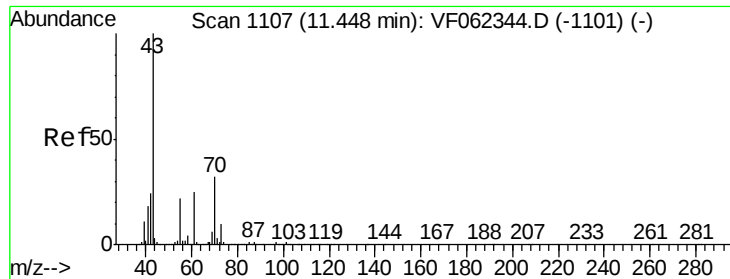


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 7.623 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

Tot Ion: 43 Resp: 463

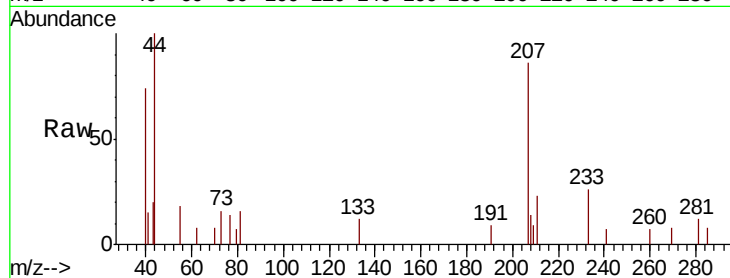
Ion Ratio Lower Upper

43 100

70 51.4 26.5 39.7#

55 0.0 17.8 26.6#

61 0.0 20.2 30.2#

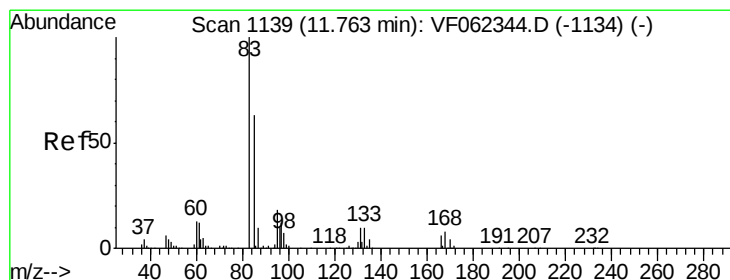
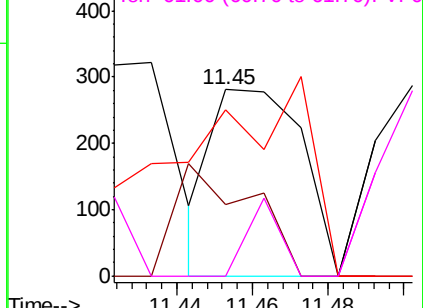
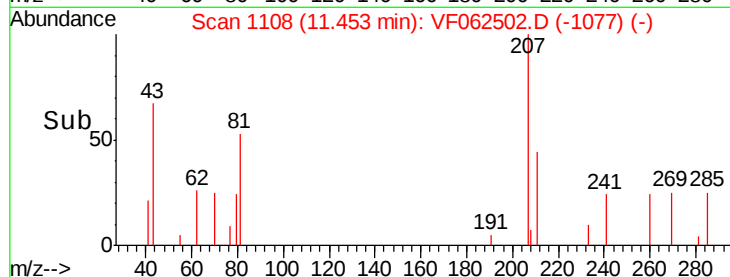


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 710.343 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

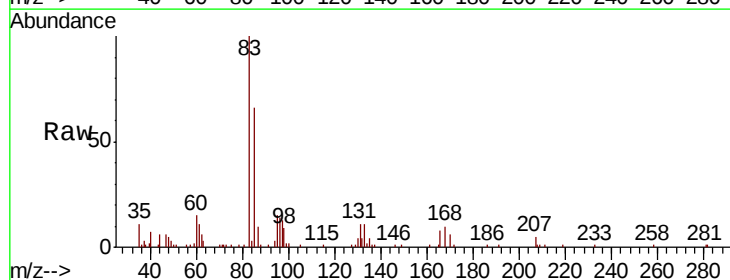
Tgt Ion: 83 Resp: 31465

Ion Ratio Lower Upper

83 100

131 11.5 5.8 17.4

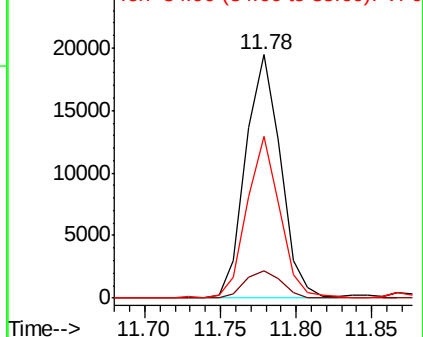
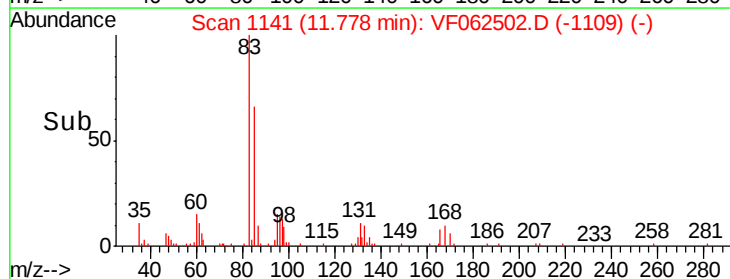
85 63.0 35.3 105.7

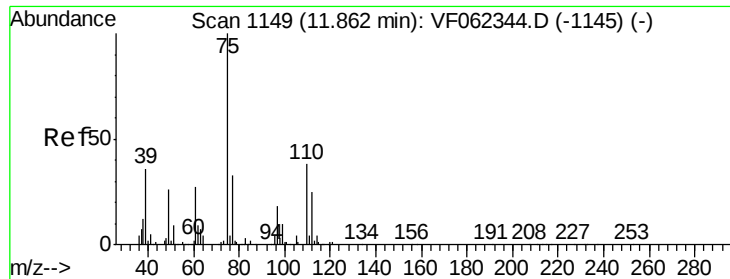


Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0

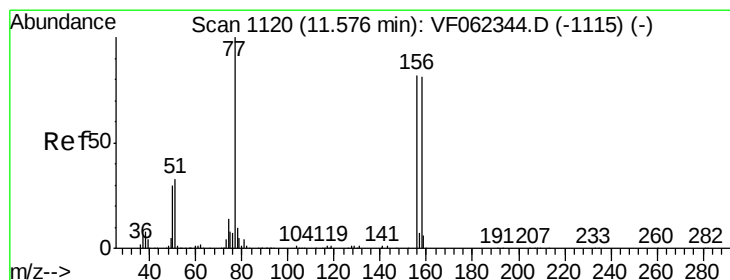
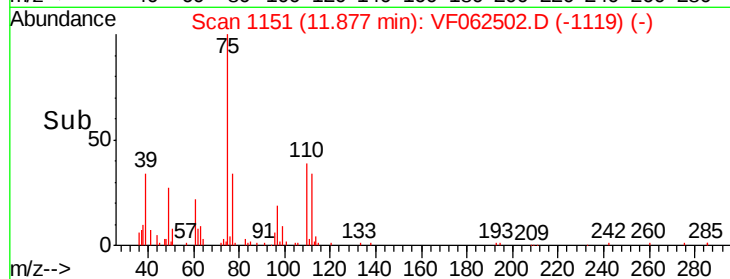
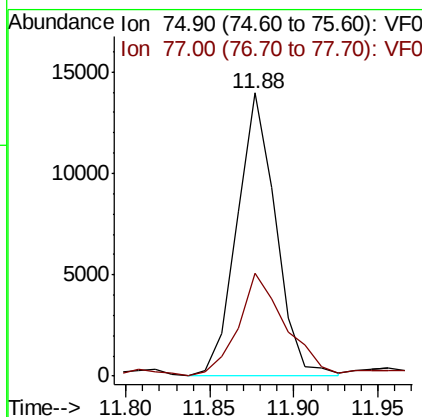
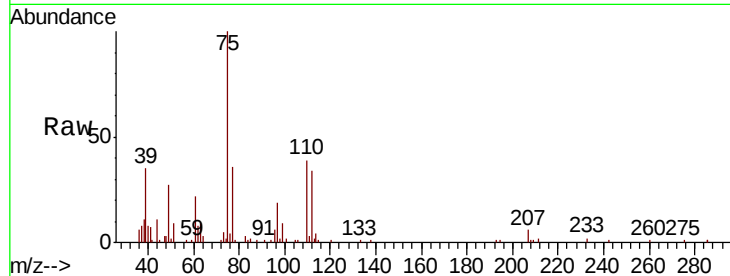




#76
 1,2,3-Trichloropropane
 Concen: 658.802 ug/l
 RT: 11.88 min Scan# 1151
 Delta R.T. 0.01 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

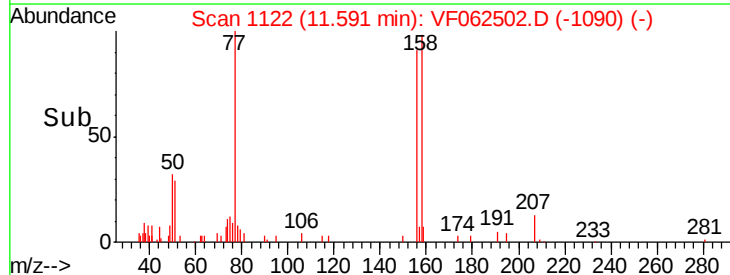
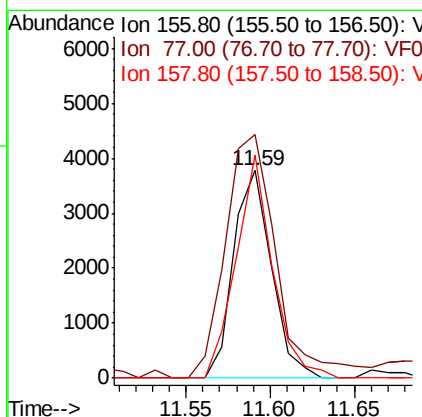
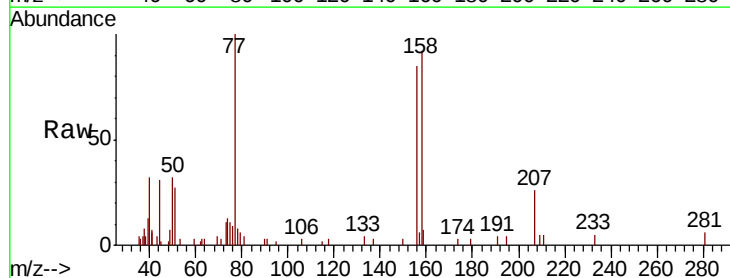
Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-0002-01MS

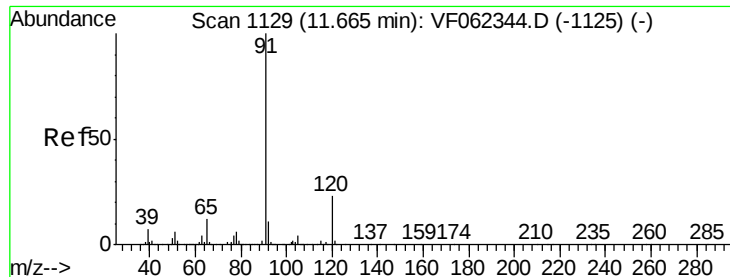
Tot Ion: 75 Resp: 22264
 Ion Ratio Lower Upper
 75 100
 77 46.0 0.0 0.0#



#77
 Bromobenzene
 Concen: 79.424 ug/l
 RT: 11.59 min Scan# 1122
 Delta R.T. 0.01 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Tgt Ion: 156 Resp: 5897
 Ion Ratio Lower Upper
 156 100
 77 159.1 64.8 194.3
 158 104.1 49.1 147.3





#78

n-propylbenzene

Concen: 32.245 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

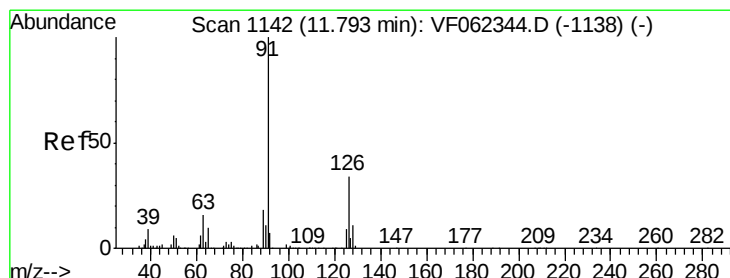
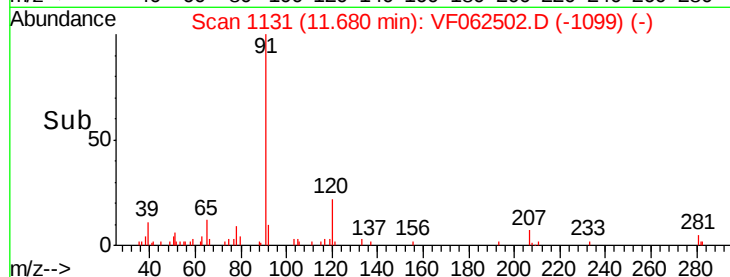
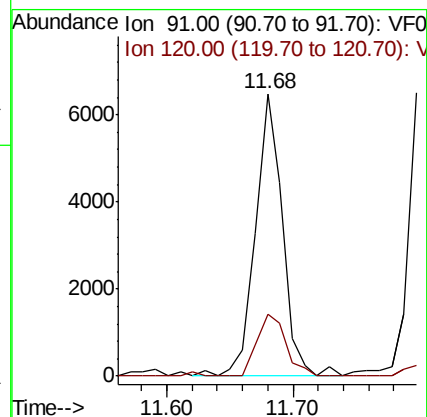
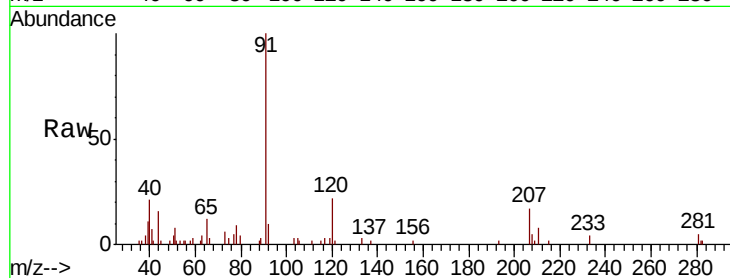
P026-SS012-0002-01MS

Tot Ion: 91 Resp: 9712

Ion Ratio Lower Upper

91 100

120 23.6 11.9 35.5



#79

2-Chlorotoluene

Concen: 62.284 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF062502.D

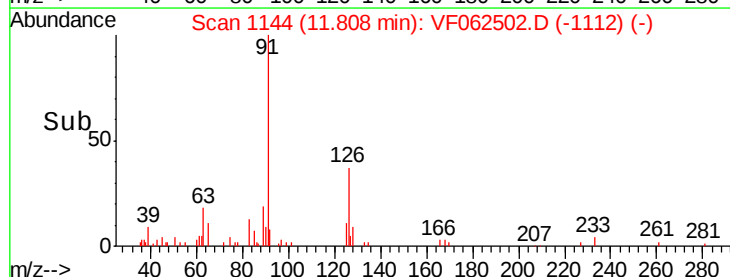
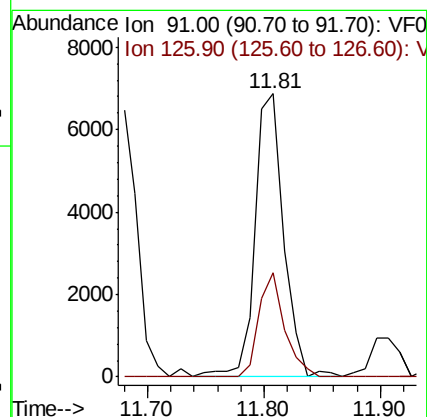
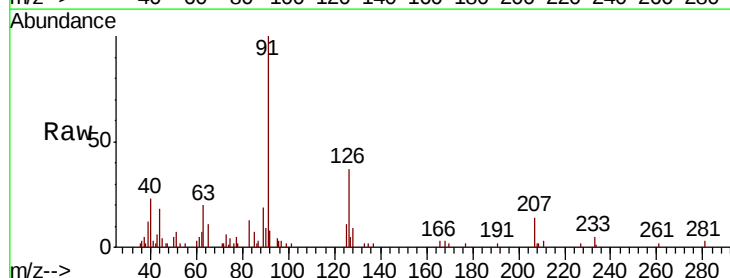
Acq: 12 May 2019 14:49

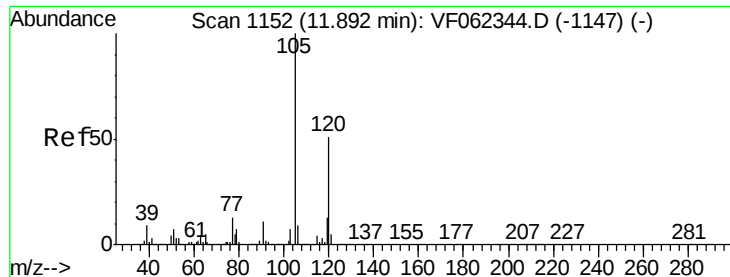
Tgt Ion: 91 Resp: 11665

Ion Ratio Lower Upper

91 100

126 32.9 17.8 53.4





#80

1,3,5-Trimethylbenzene

Concen: 53.214 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

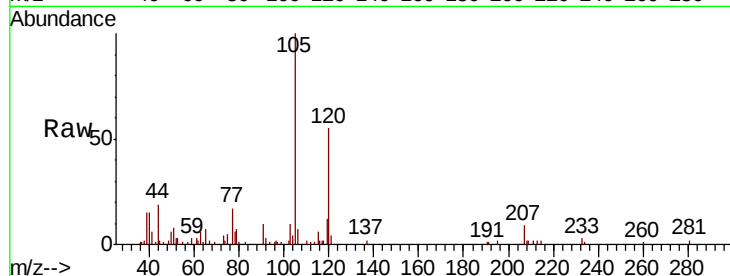
P026-SS012-0002-01MS

Tot Ion:105 Resp: 13195

Ion Ratio Lower Upper

105 100

120 50.5 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.91

10000

8000

6000

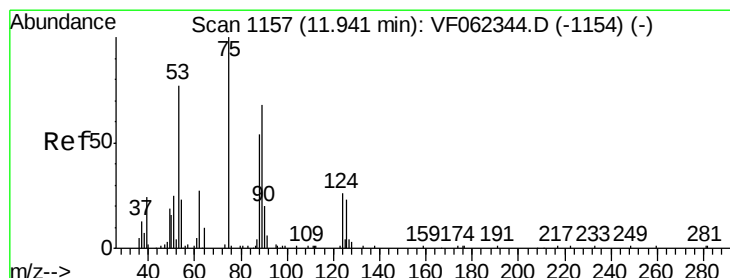
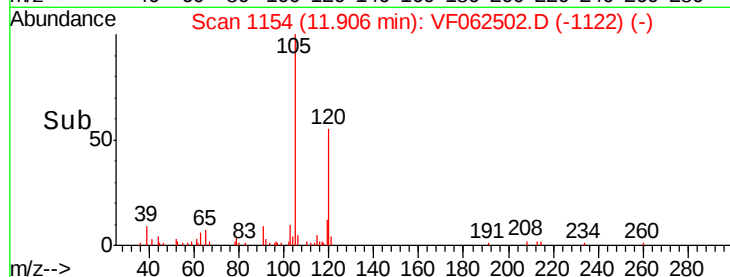
4000

2000

0

11.85 11.90 11.95

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 105.644 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.03 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

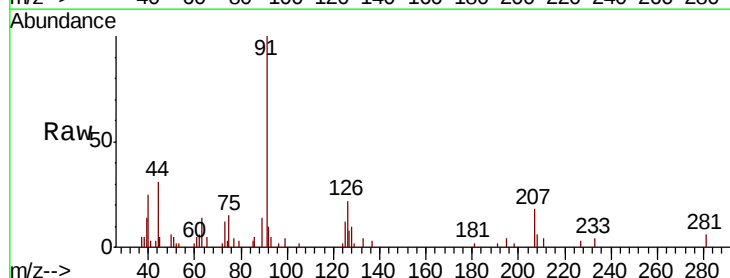
Tgt Ion: 75 Resp: 1342

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 118.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

12000

10000

8000

6000

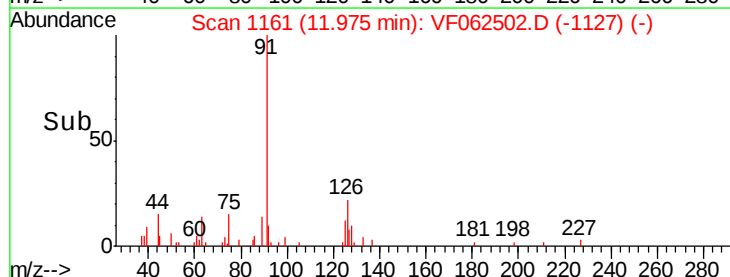
4000

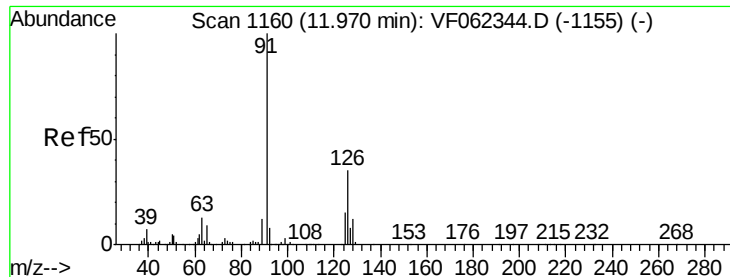
2000

0

11.90 11.95 12.00

Time-->

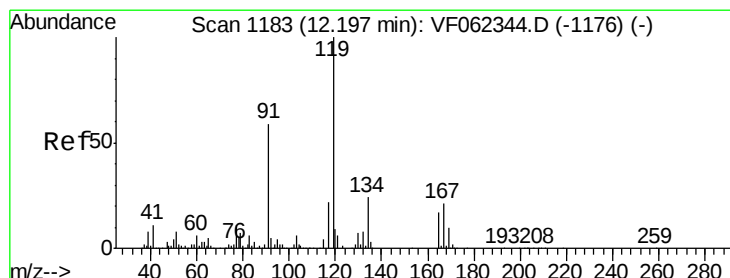
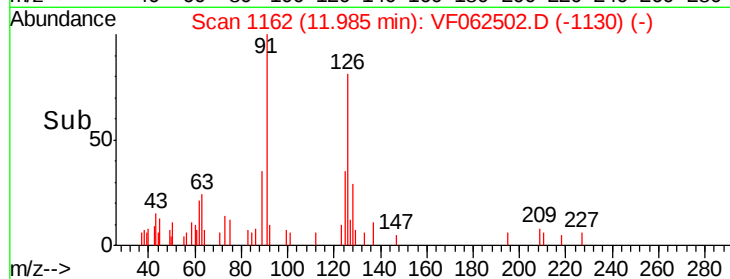
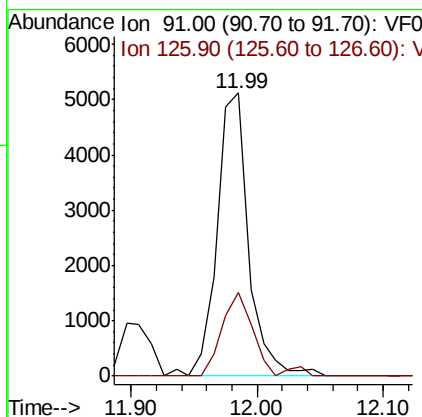
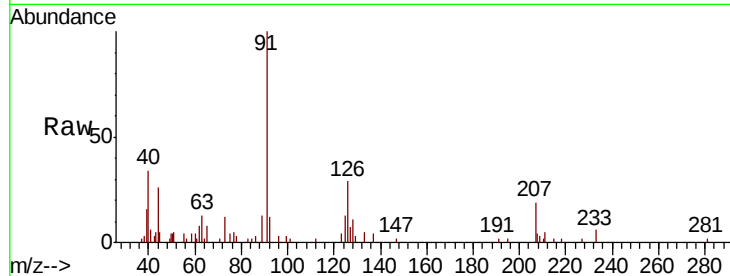




#82
 4-Chlorotoluene
 Concen: 47.843 ug/l
 RT: 11.99 min Scan# 1162
 Delta R.T. 0.01 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

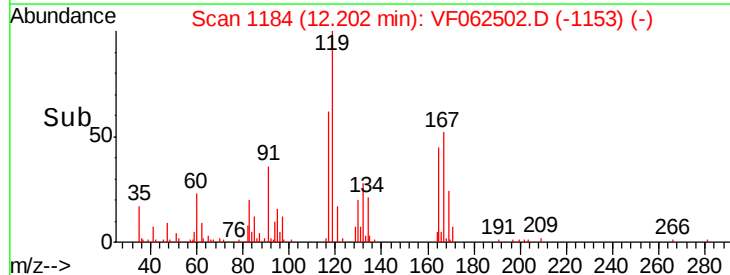
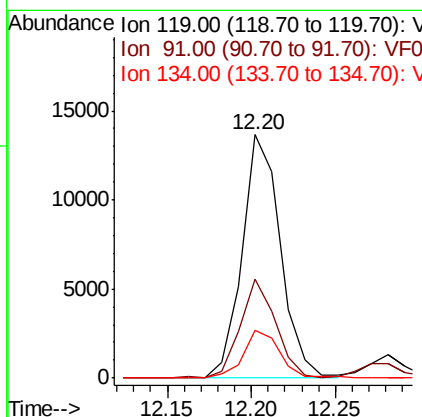
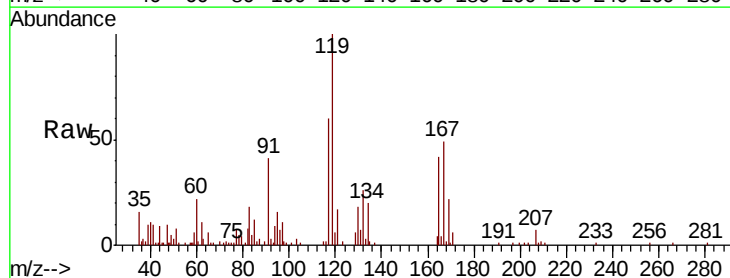
Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-0002-01MS

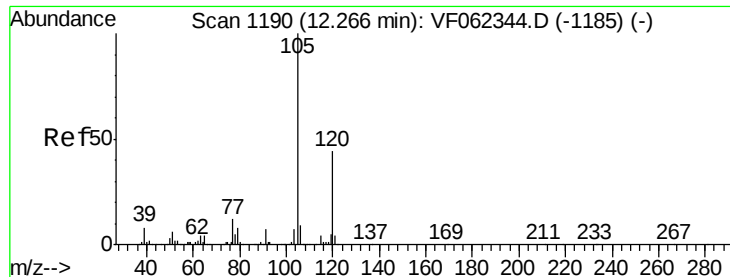
Tot Ion: 91 Resp: 8850
 Ion Ratio Lower Upper
 91 100
 126 30.0 17.7 53.1



#83
 tert-Butylbenzene
 Concen: 82.703 ug/l
 RT: 12.20 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Tgt Ion: 119 Resp: 21552
 Ion Ratio Lower Upper
 119 100
 91 37.9 30.4 91.3
 134 19.0 11.9 35.7

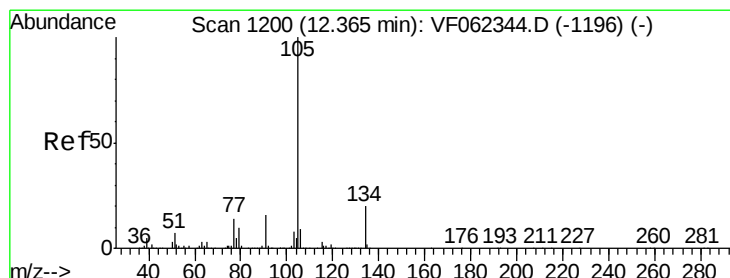
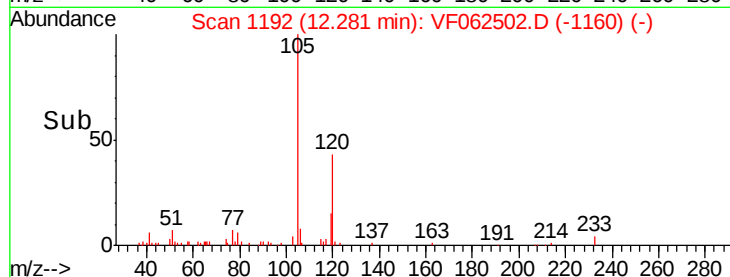
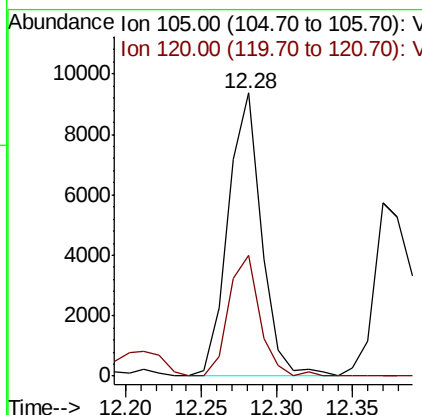
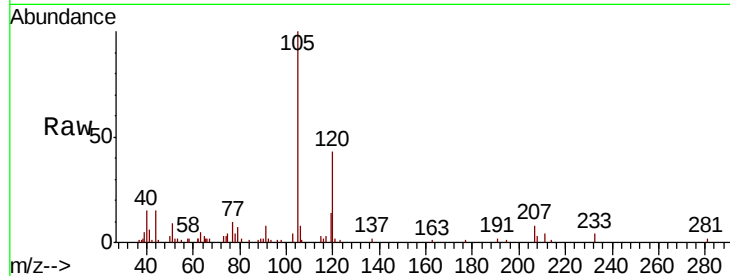




#84
1,2,4-Trimethylbenzene
Concen: 59.178 ug/l
RT: 12.28 min Scan# 1192
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

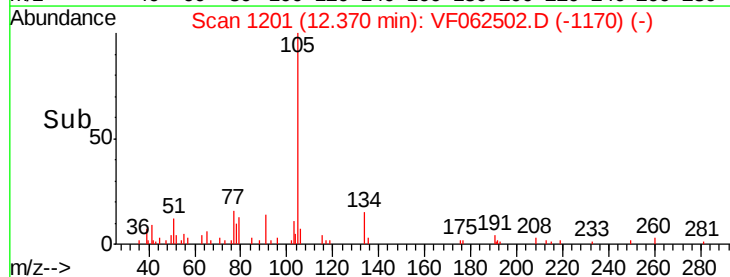
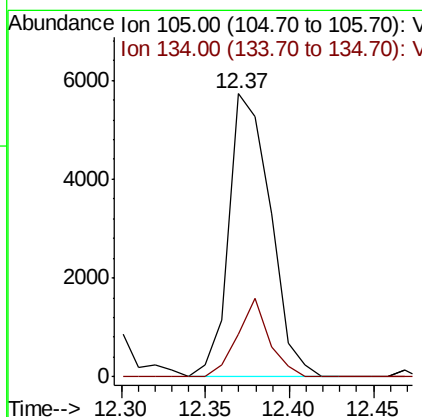
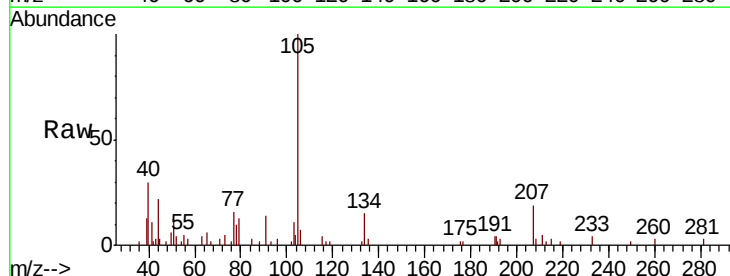
Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0002-01MS

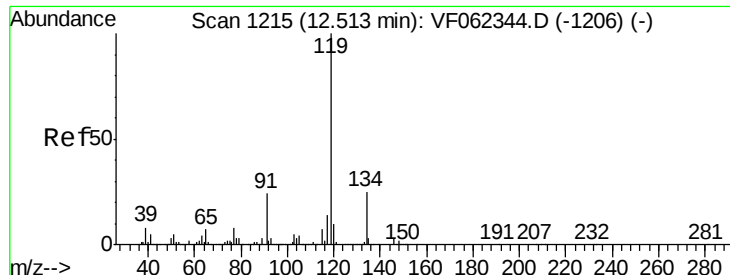
Tot Ion:105 Resp: 14360
Ion Ratio Lower Upper
105 100
120 39.9 22.6 67.7



#85
sec-Butylbenzene
Concen: 30.965 ug/l
RT: 12.37 min Scan# 1201
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Tgt Ion:105 Resp: 9822
Ion Ratio Lower Upper
105 100
134 21.2 9.8 29.5

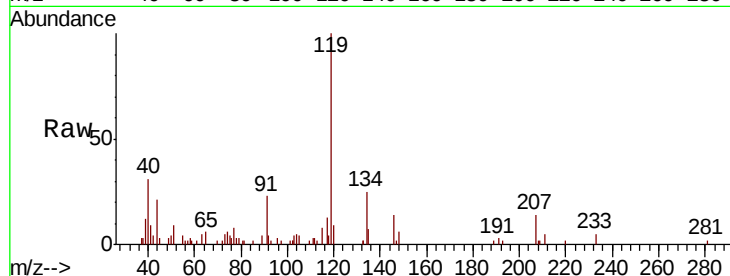




#86
 p-Isopropyltoluene
 Concen: 26.865 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. 0.01 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-0002-01MS

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.9	38.7
91	23.6	12.3	36.8

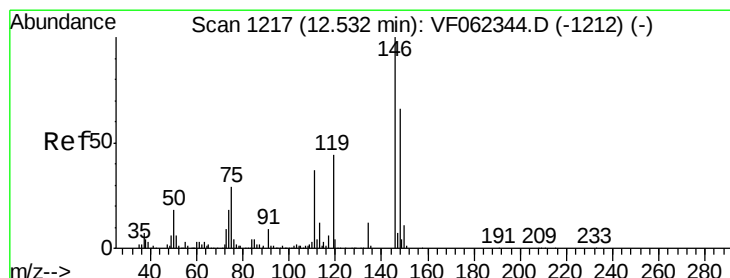
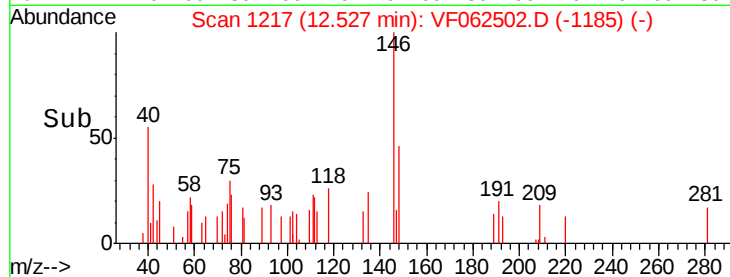
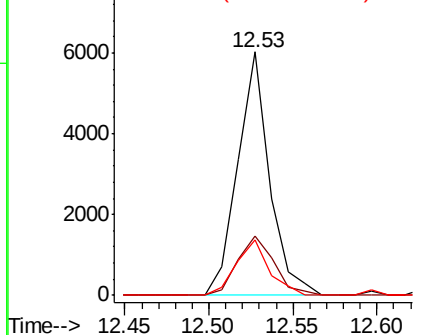


Abundance

Ion 119.00 (118.70 to 119.70): V

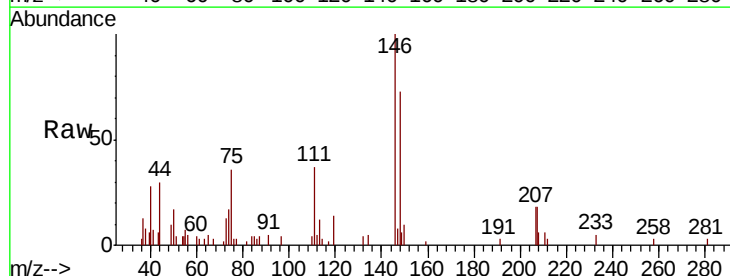
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#87
 1,3-Dichlorobenzene
 Concen: 49.144 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.8	18.3	54.8
148	70.6	32.3	96.9

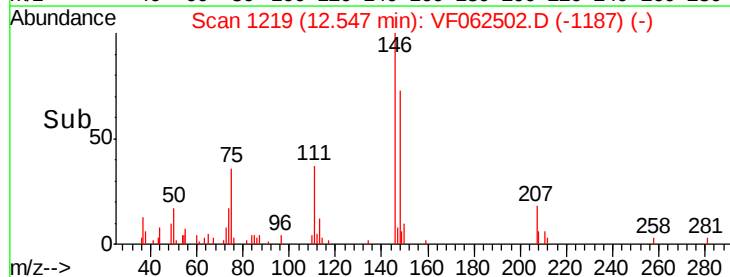
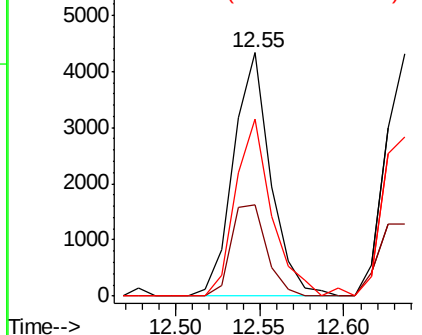


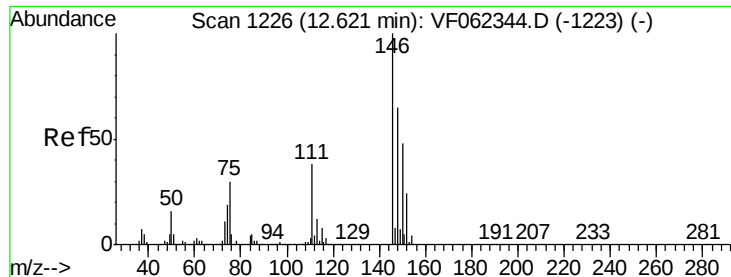
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

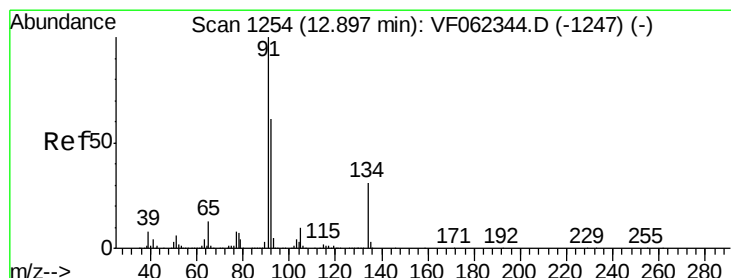
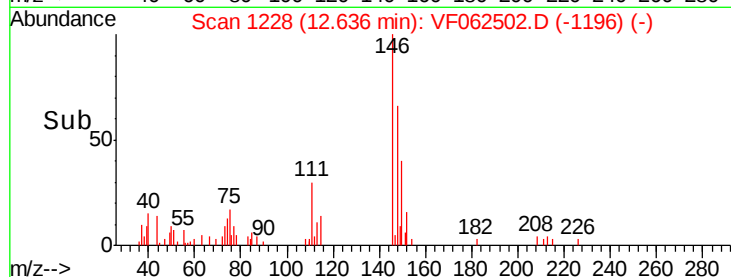
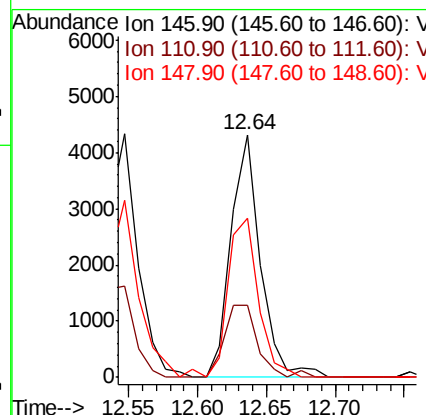
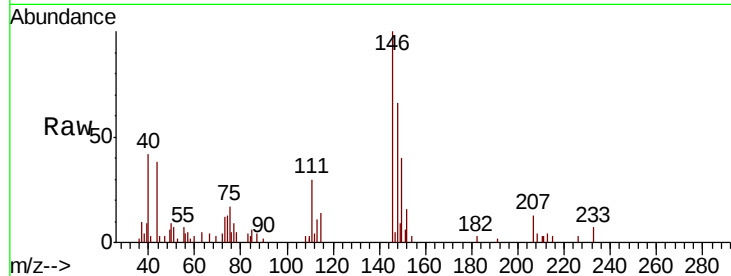




#88
1,4-Dichlorobenzene
Concen: 49.031 ug/l
RT: 12.64 min Scan# 1228
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

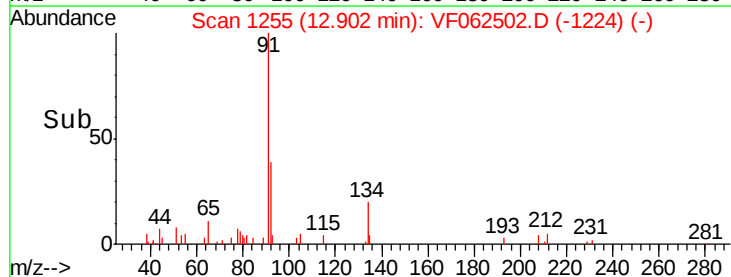
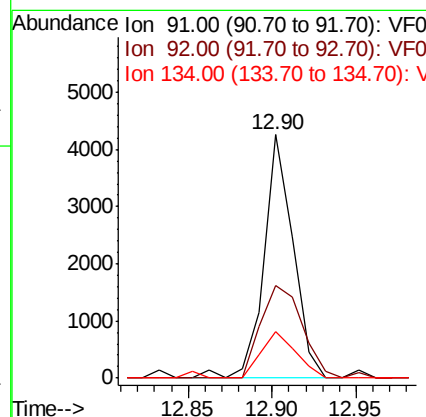
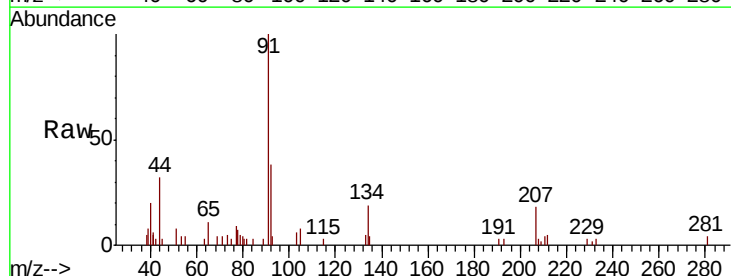
Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0002-01MS

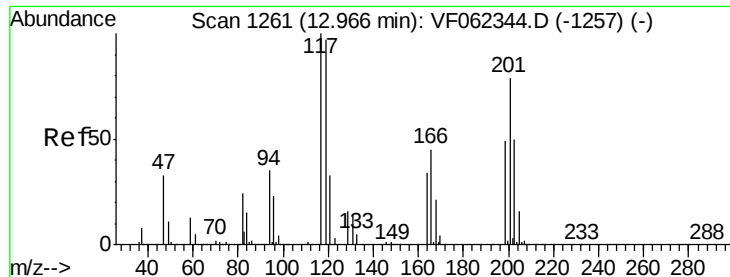
Tot Ion:146 Resp: 6417
Ion Ratio Lower Upper
146 100
111 34.1 18.8 56.3
148 66.8 32.2 96.6



#89
n-Butylbenzene
Concen: 19.516 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062502.D
Acq: 12 May 2019 14:49

Tgt Ion: 91 Resp: 5117
Ion Ratio Lower Upper
91 100
92 55.1 30.0 90.0
134 22.6 14.1 42.4





#90

Hexachloroethane

Concen: 38.433 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

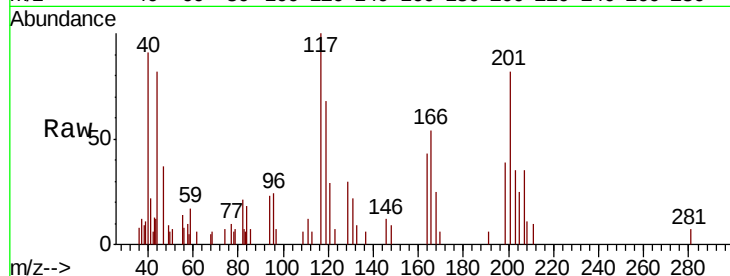
P026-SS012-0002-01MS

Tot Ion:117 Resp: 2828

Ion Ratio Lower Upper

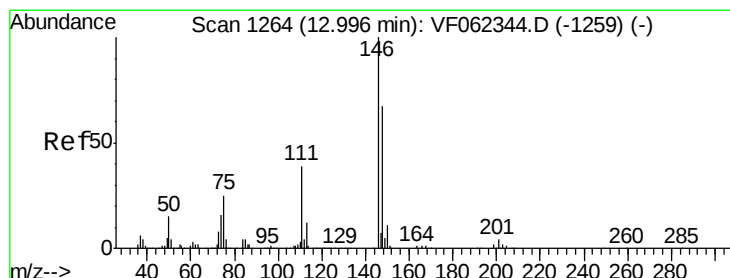
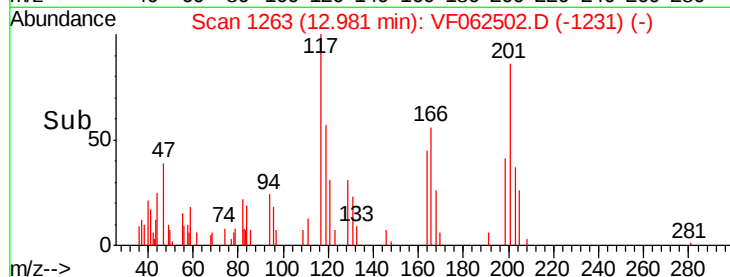
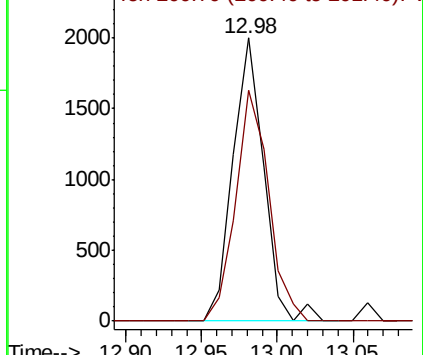
117 100

201 87.9 46.2 138.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 71.185 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

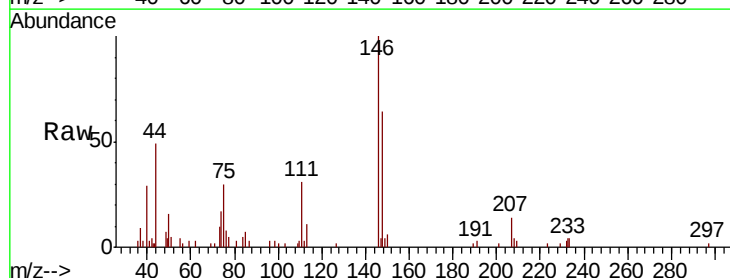
Tgt Ion:146 Resp: 9343

Ion Ratio Lower Upper

146 100

111 38.6 20.0 60.0

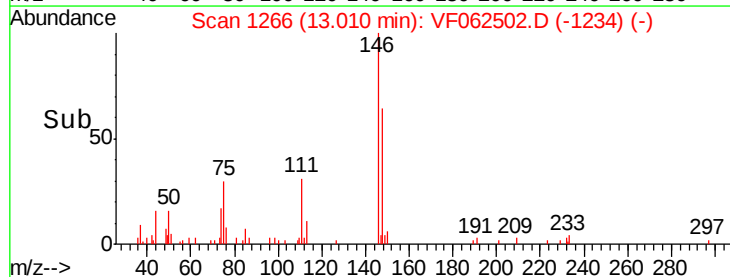
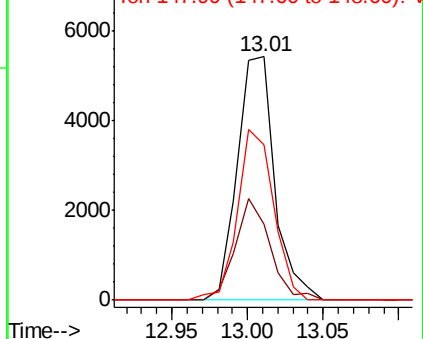
148 67.5 33.1 99.5

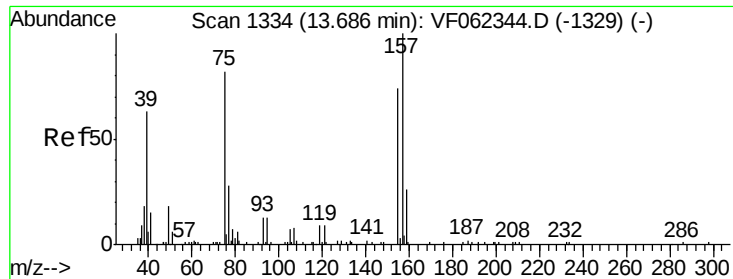


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 481.682 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

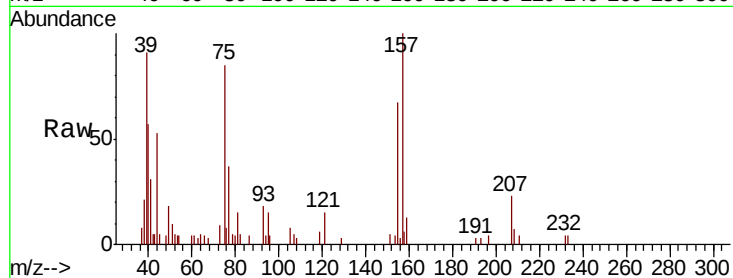
Tot Ion: 75 Resp: 4780

Ion Ratio Lower Upper

75 100

155 95.5 51.8 155.4

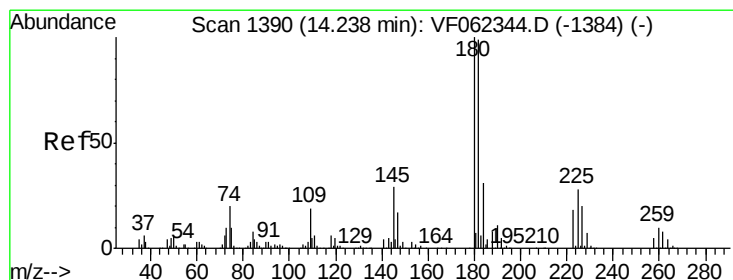
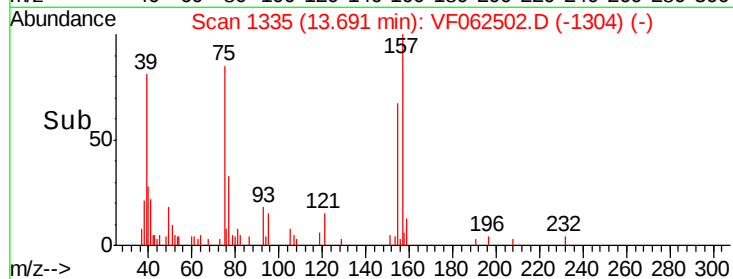
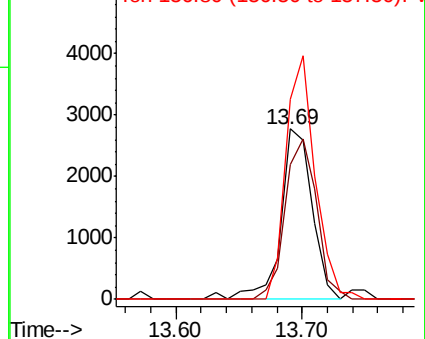
157 134.5 67.3 201.8



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 32.321 ug/l

RT: 14.24 min Scan# 1391

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

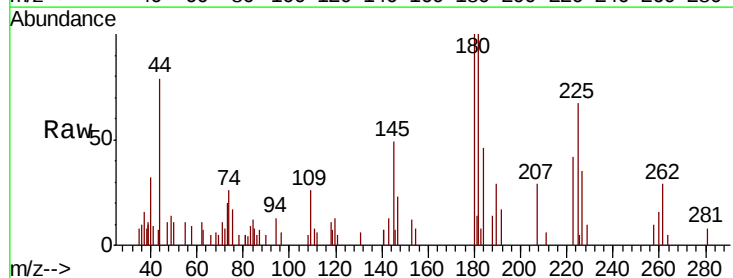
Tgt Ion: 180 Resp: 3805

Ion Ratio Lower Upper

180 100

182 98.0 49.0 147.0

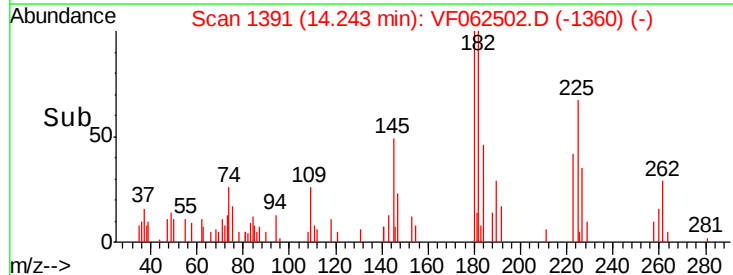
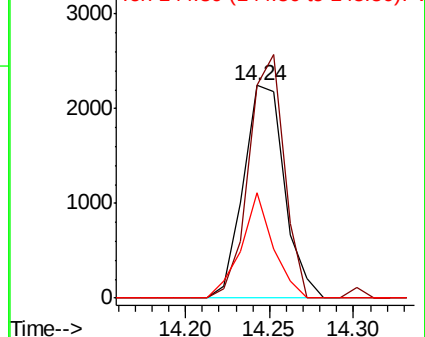
145 38.6 16.7 50.1

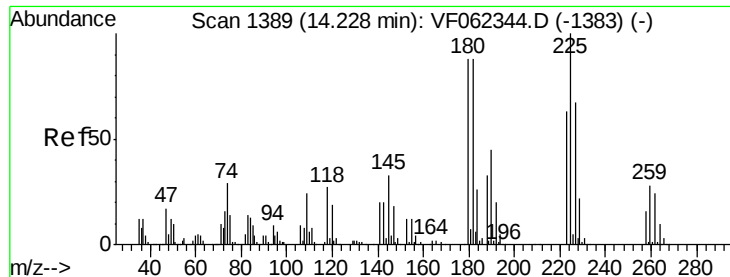


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 34.282 ug/l

RT: 14.23 min Scan# 1390

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0002-01MS

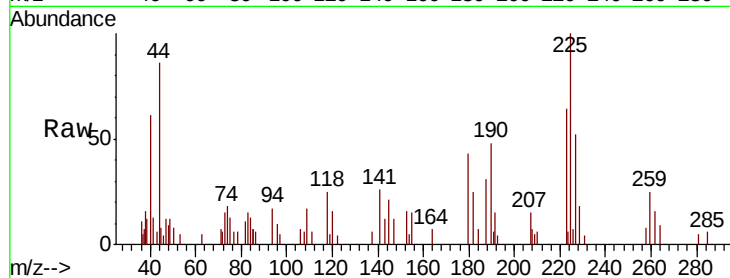
Tot Ion:225 Resp: 3008

Ion Ratio Lower Upper

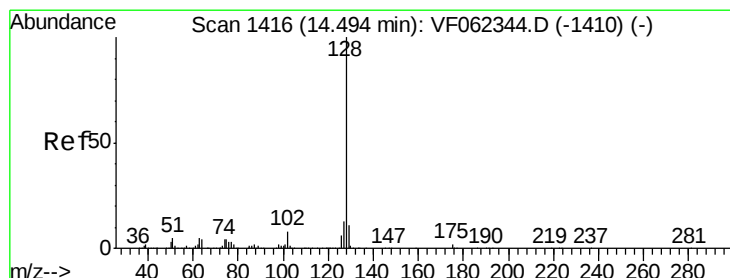
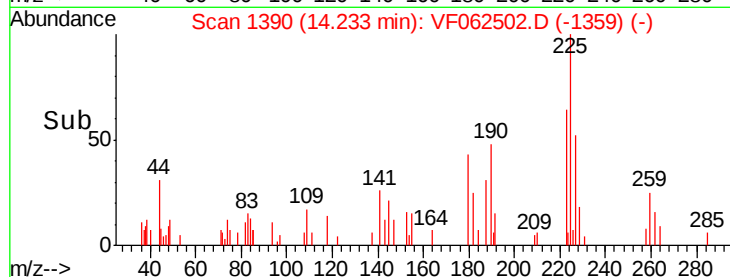
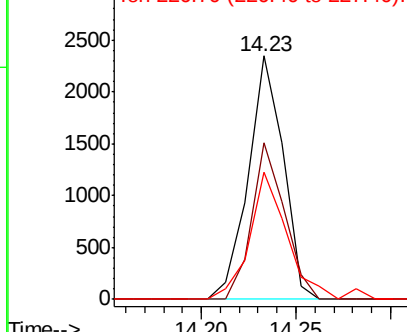
225 100

223 60.6 31.9 95.5

227 57.8 33.1 99.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 61.032 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VF062502.D

Acq: 12 May 2019 14:49

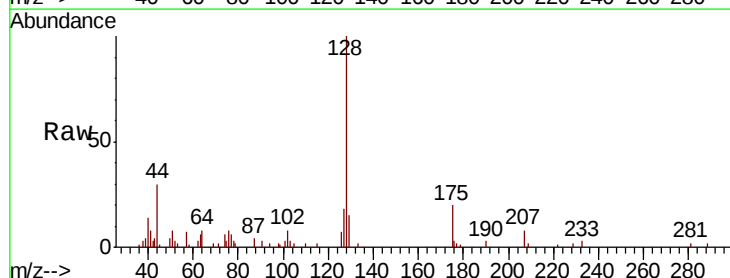
Tgt Ion:128 Resp: 10802

Ion Ratio Lower Upper

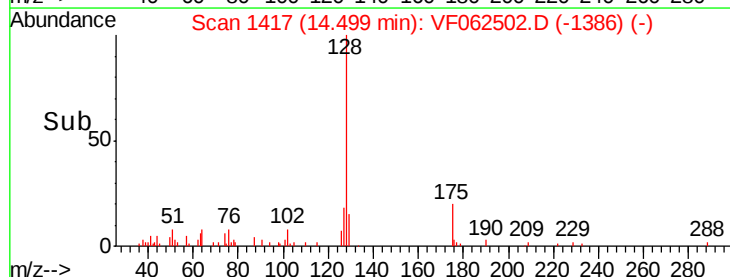
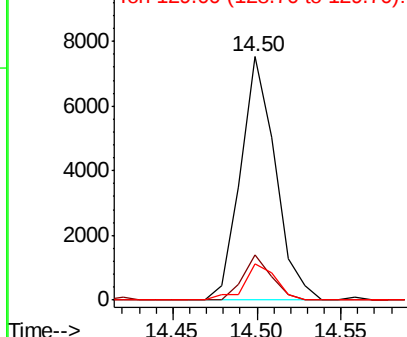
128 100

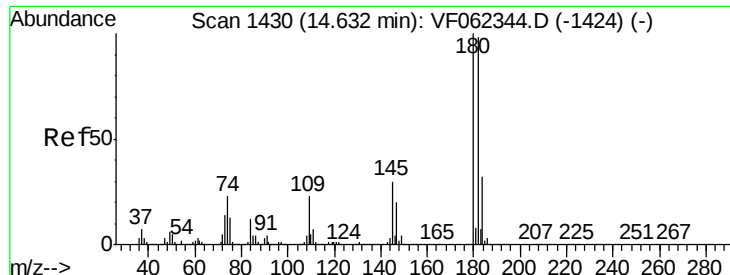
127 15.3 10.5 15.7

129 13.5 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

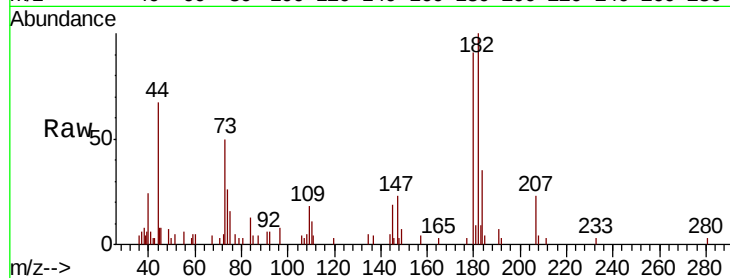




#96
 1,2,3-Trichlorobenzene
 Concen: 44.822 ug/l
 RT: 14.65 min Scan# 1432
 Delta R.T. 0.01 min
 Lab File: VF062502.D
 Acq: 12 May 2019 14:49

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-0002-01MS

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	49.4	148.0
145	22.7	14.8	44.3



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

