

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051719\
 Data File : VF062648.D
 Acq On : 17 May 2019 19:47
 Operator : FY/SY
 Sample : K2894-15
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 18 01:43:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	84046	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	91079	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	40263	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	4115	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	7397	12.45	ug/l	0.00
Spiked Amount			Recovery	=	24.90%	
35) Dibromofluoromethane	4.31	113	15778	22.64	ug/l	0.00
Spiked Amount			Recovery	=	45.28%	
50) Toluene-d8	7.71	98	52583	31.60	ug/l	0.00
Spiked Amount			Recovery	=	63.20%	
62) 4-Bromofluorobenzene	11.48	95	6885	10.91	ug/l	-0.02
Spiked Amount			Recovery	=	21.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	1741	1.522	ug/l	100
11) Tert butyl alcohol	2.72	59	131	3.341	ug/l #	70
12) 1,1-Dichloroethene	1.87	96	758	1.004	ug/l #	6
13) Acrolein	2.11	56	878	21.451	ug/l	89
15) Acrylonitrile	3.08	53	480	4.340	ug/l #	49
16) Acetone	2.35	43	6611	42.906	ug/l #	72
18) Methyl Acetate	2.55	43	462	1.908	ug/l	91
19) Methyl tert-butyl Ether	2.52	73	1995	1.478	ug/l #	60
20) Methylene Chloride	2.32	84	1933	2.503	ug/l #	51
25) 2-Butanone	4.52	43	2489	7.561	ug/l #	81
29) Tetrahydrofuran	4.22	42	864	6.486	ug/l #	63
37) Ethyl Acetate	4.31	43	985	2.585	ug/l #	30
41) Methacrylonitrile	4.89	41	910	4.555	ug/l #	51
42) 1,2-Dichloroethane	5.16	62	568	1.120	ug/l	71
43) Isopropyl Acetate	7.08	43	2691	5.451	ug/l #	43
48) Methyl methacrylate	6.87	41	606	2.349	ug/l #	48
49) 1,4-Dioxane	6.88	88	139	42.059	ug/l #	1
51) 4-Methyl-2-Pentanone	8.35	43	1558	4.617	ug/l #	32
53) t-1,3-Dichloropropene	8.41	75	642	1.019	ug/l #	30
55) 1,1,2-Trichloroethane	8.64	97	703	1.781	ug/l #	57
56) Ethyl methacrylate	8.73	69	711	1.512	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.40	63	289	1.888	ug/l #	51
59) 2-Hexanone	9.63	43	853	Below Cal		70
68) m/p-Xylenes	10.26	106	1021	1.977	ug/l #	75
73) Isopropylbenzene	11.20	105	655	2.221	ug/l #	17
74) N-amyl acetate	11.43	43	661	3.825	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	11.81	83	821	13.621	ug/l #	15
76) 1,2,3-Trichloropropane	11.98	75	790	19.948	ug/l	89
77) Bromobenzene	11.66	156	103	1.405	ug/l	69
78) n-propylbenzene	11.81	91	786	2.252	ug/l	83
79) 2-Chlorotoluene	11.71	91	292	1.484	ug/l	83
80) 1,3,5-Trimethylbenzene	11.81	105	449	1.899	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.98	75	790	44.877	ug/l #	57
82) 4-Chlorotoluene	11.94	91	1195	6.160	ug/l #	37

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

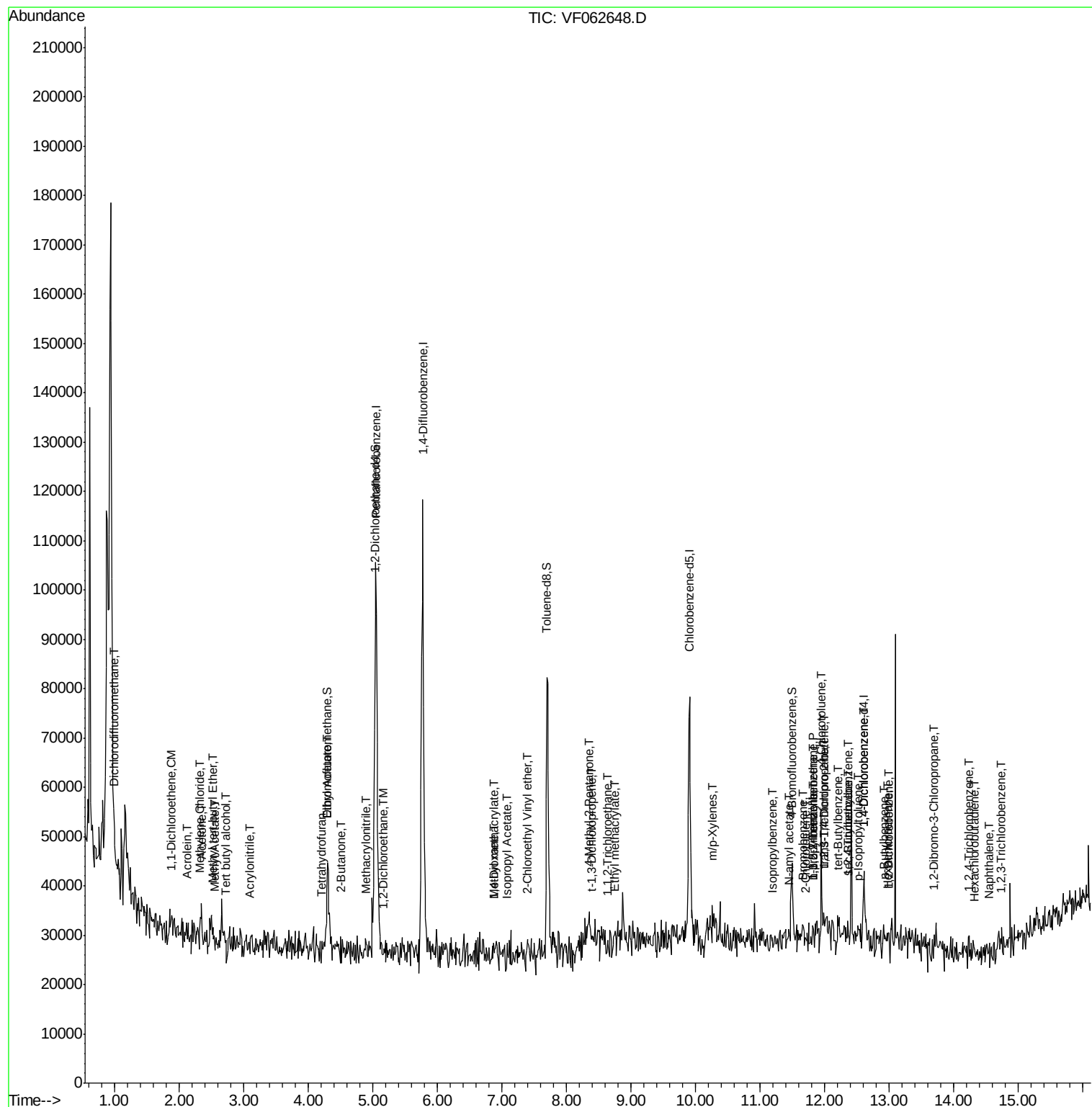
83) tert-Butylbenzene	12.21	119	739	3.080	ug/l #	67
84) 1,2,4-Trimethylbenzene	12.36	105	810	3.539	ug/l	70
85) sec-Butylbenzene	12.36	105	810	2.516	ug/l #	54
86) p-Isopropyltoluene	12.52	119	400	1.474	ug/l #	3
88) 1,4-Dichlorobenzene	12.61	146	280	2.250	ug/l #	30
89) n-Butylbenzene	12.91	91	407	1.521	ug/l #	78
90) Hexachloroethane	12.98	117	209	3.211	ug/l #	2
91) 1,2-Dichlorobenzene	13.00	146	204	1.725	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.69	75	130	18.080	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.22	180	158	1.867	ug/l #	11
94) Hexachlorobutadiene	14.32	225	160	2.709	ug/l #	16
95) Naphthalene	14.54	128	156	1.015	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.72	180	101	1.260	ug/l #	13

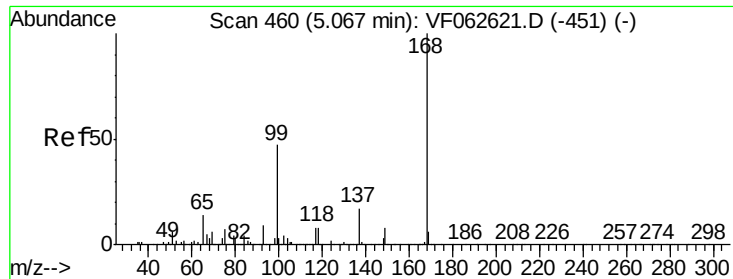
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

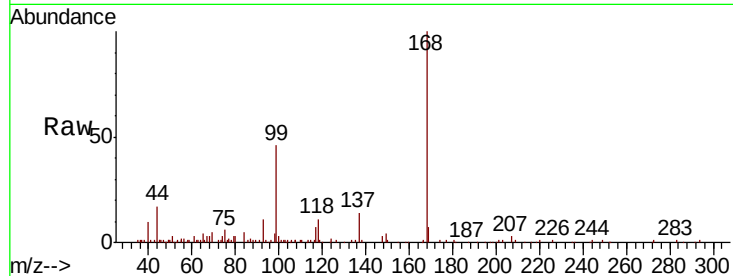
ClientSampleId :

Tot Ion:168 Resp: 84046

Ion Ratio Lower Upper

168 100

99 46.4 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

30000

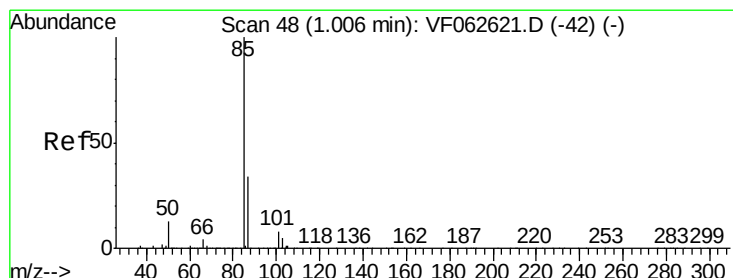
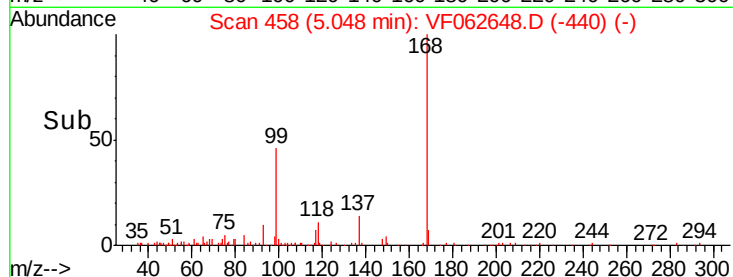
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: 1.522 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062648.D

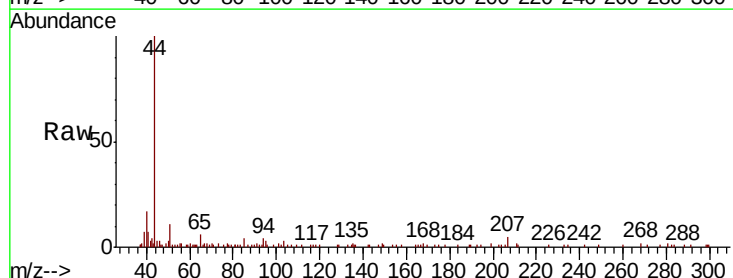
Acq: 17 May 2019 19:47

Tgt Ion: 85 Resp: 1741

Ion Ratio Lower Upper

85 100

87 33.3 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

600

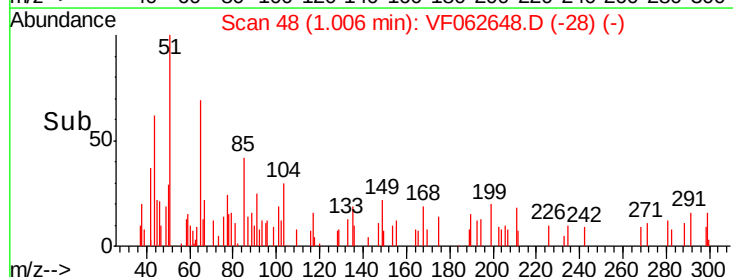
400

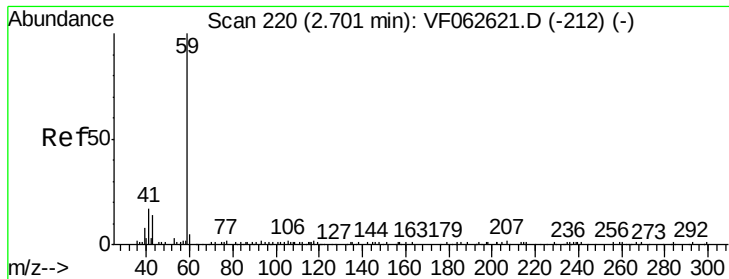
200

0

0.95 1.00 1.05

Time-->

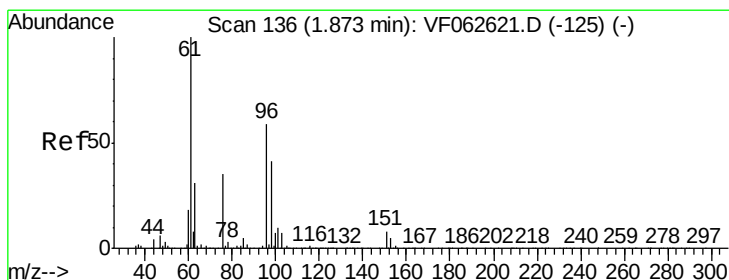
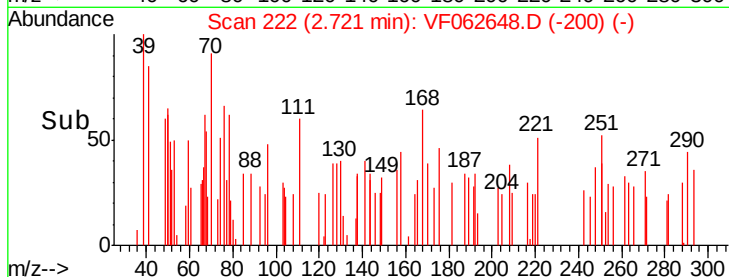
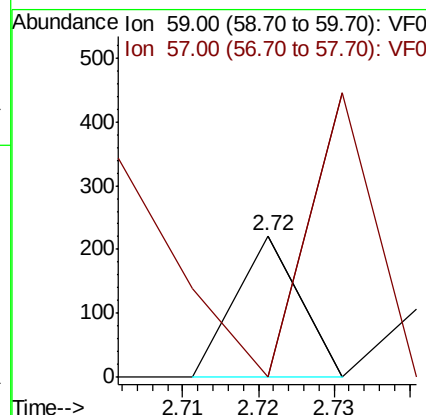
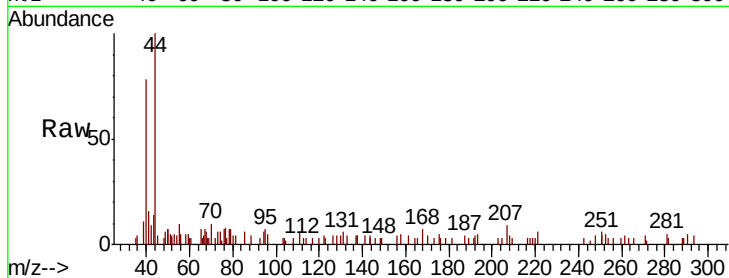




#11
Tert butyl alcohol
Concen: 3.341 ug/l
RT: 2.72 min Scan# 222
Delta R.T. 0.02 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

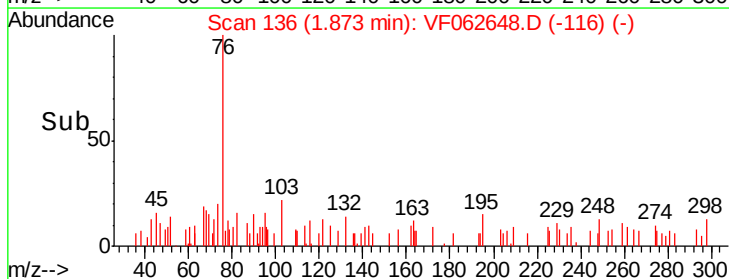
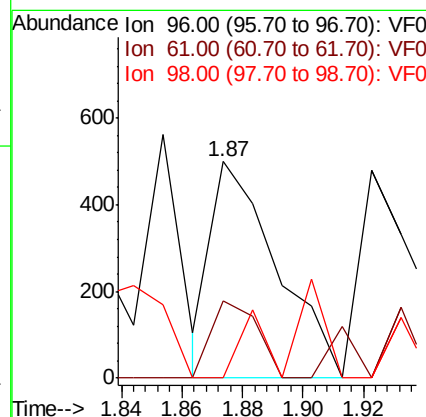
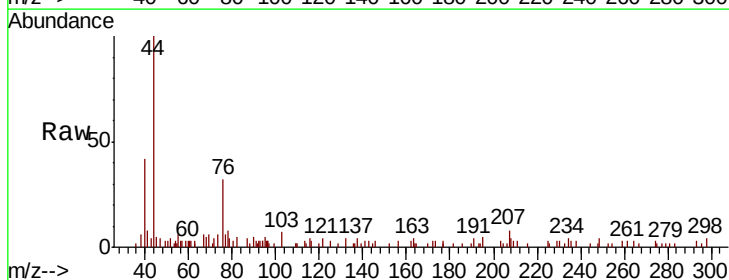
Instrument :
MSVOA_F
ClientSampled :

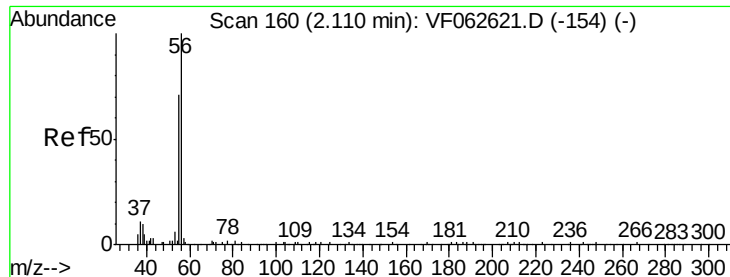
Tot Ion: 59 Resp: 131
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



#12
1,1-Dichloroethene
Concen: 1.004 ug/l
RT: 1.87 min Scan# 136
Delta R.T. 0.00 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

Tgt Ion: 96 Resp: 758
Ion Ratio Lower Upper
96 100
61 35.8 134.3 201.5#
98 0.0 55.0 82.6#





#13

Acrolein

Concen: 21.451 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.00 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

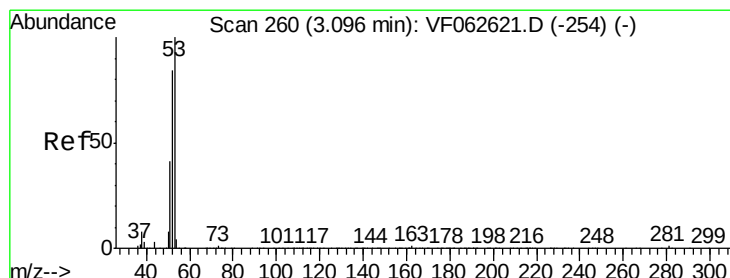
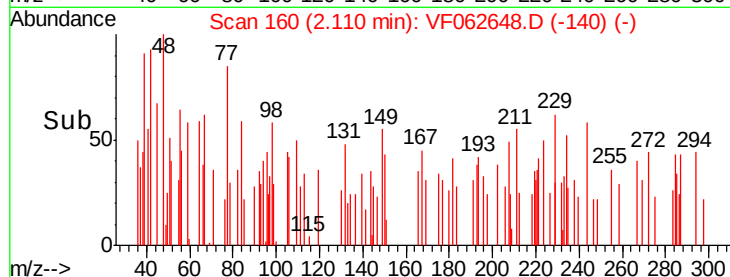
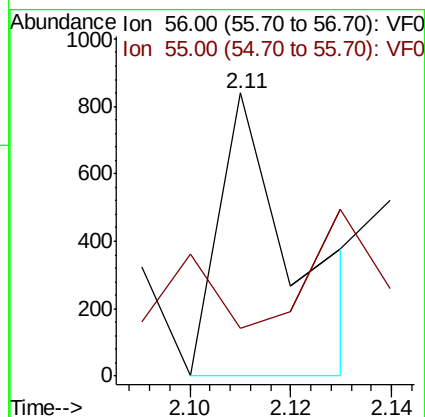
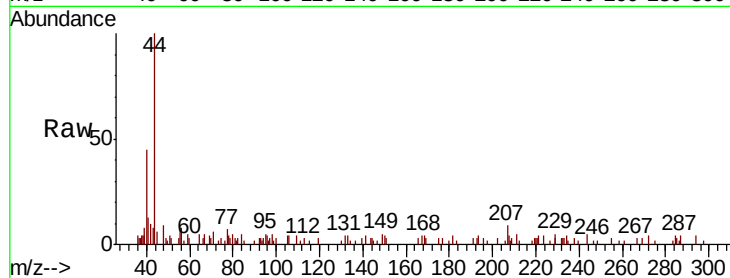
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 878

Ion Ratio Lower Upper

56 100

55 65.0 59.4 89.0



#15

Acrylonitrile

Concen: 4.340 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

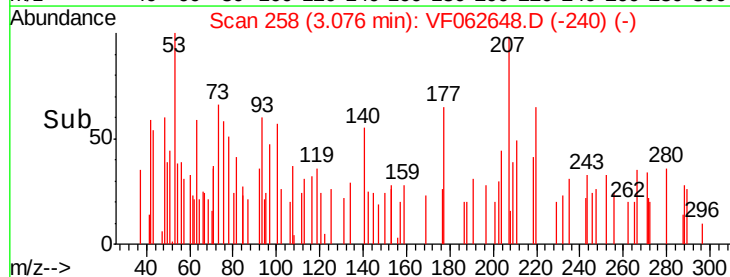
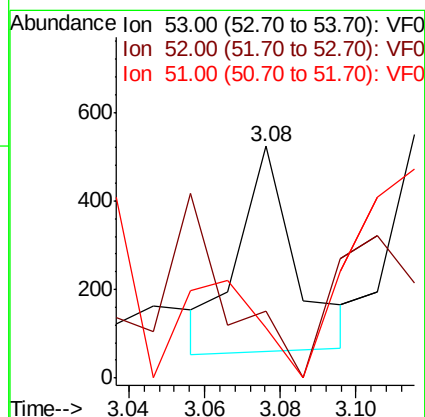
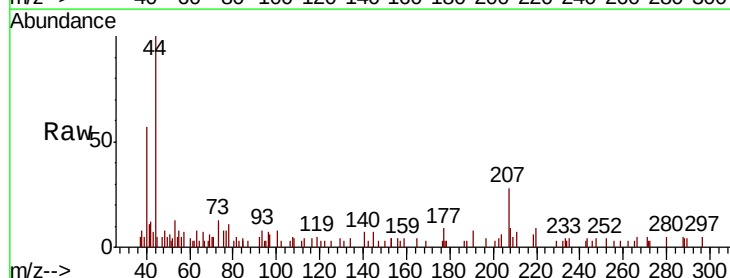
Tgt Ion: 53 Resp: 480

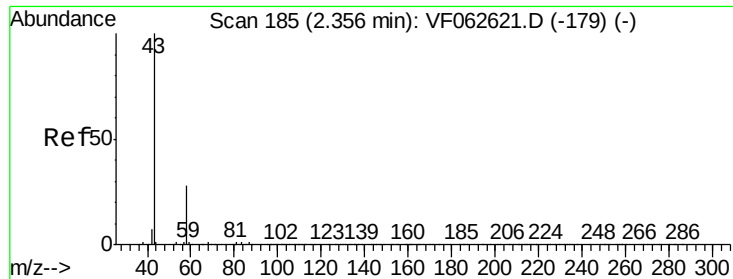
Ion Ratio Lower Upper

53 100

52 28.7 67.3 100.9#

51 21.6 33.0 49.6#

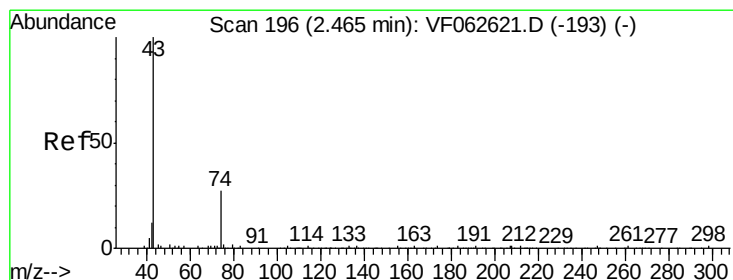
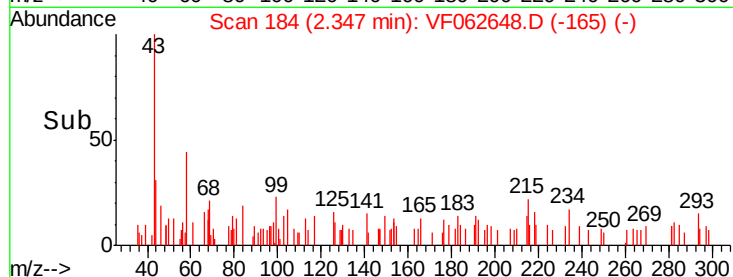
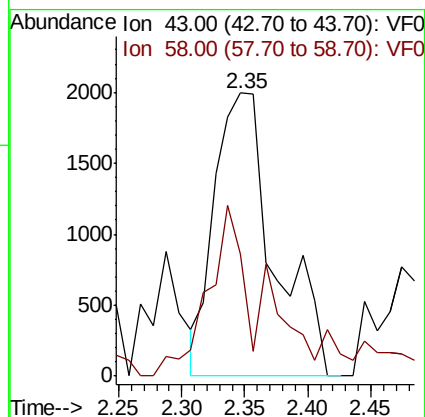
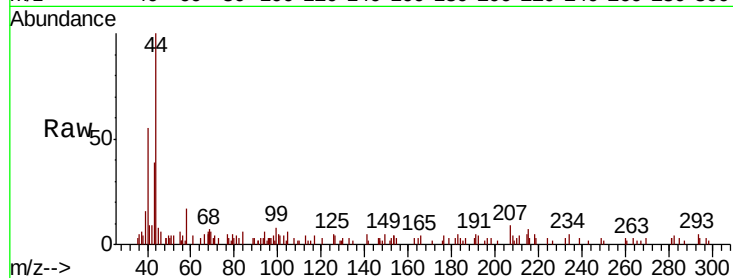




#16
Acetone
Concen: 42.906 ug/l
RT: 2.35 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

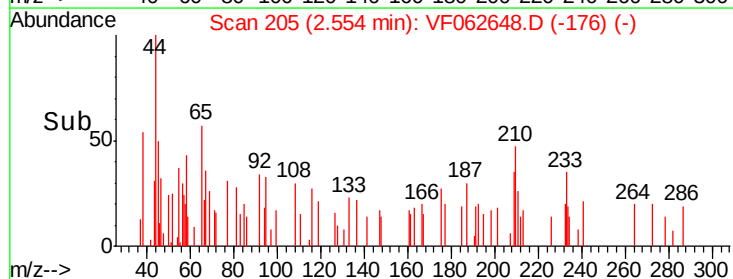
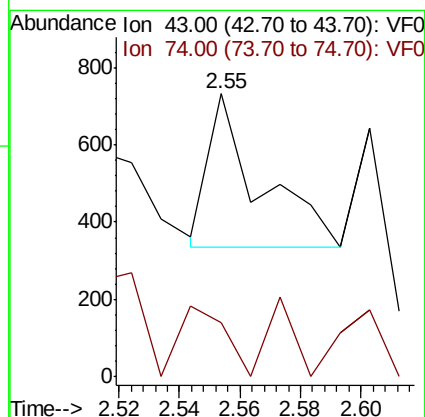
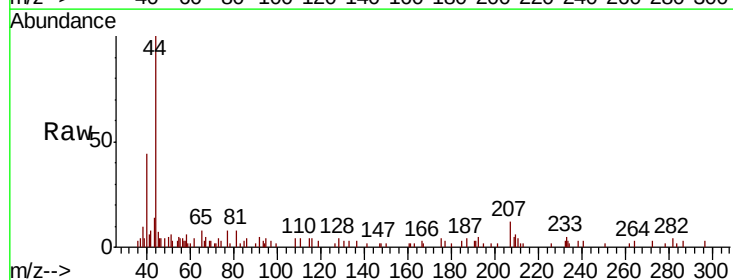
Instrument :
MSVOA_F
ClientSampleId :

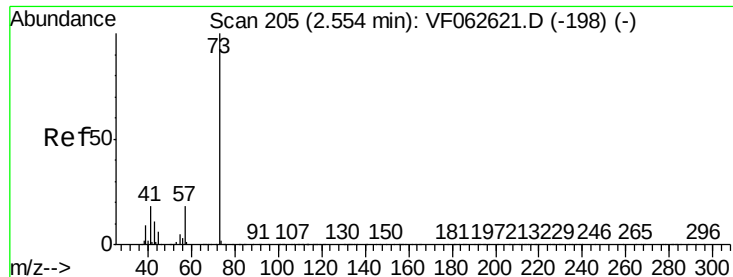
Tot Ion: 43 Resp: 6611
Ion Ratio Lower Upper
43 100
58 43.1 22.6 33.8#



#18
Methyl Acetate
Concen: 1.908 ug/l
RT: 2.55 min Scan# 205
Delta R.T. 0.09 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

Tgt Ion: 43 Resp: 462
Ion Ratio Lower Upper
43 100
74 19.3 18.9 28.3



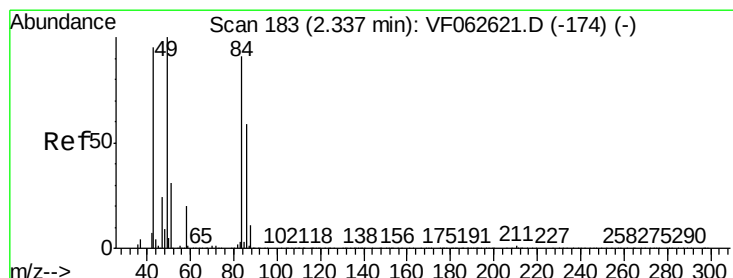
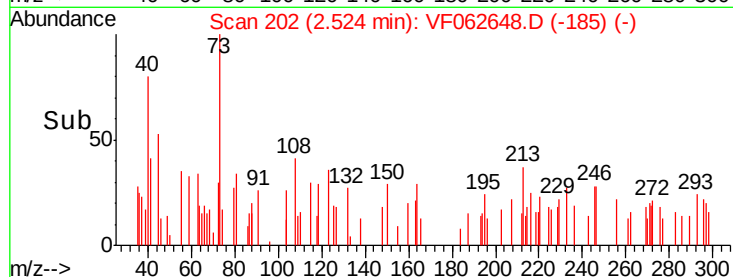
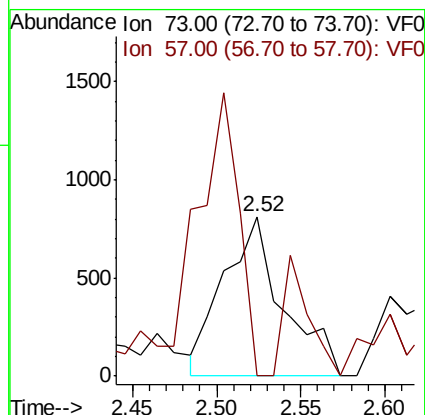
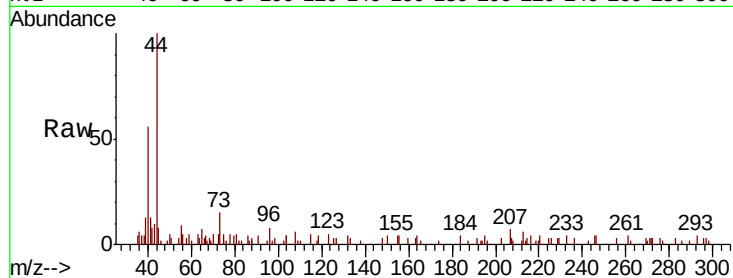


#19

Methyl tert-butyl Ether
 Concen: 1.478 ug/l
 RT: 2.52 min Scan# 202
 Delta R.T. -0.03 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

Instrument :
 MSVOA_F
 ClientSampleId :

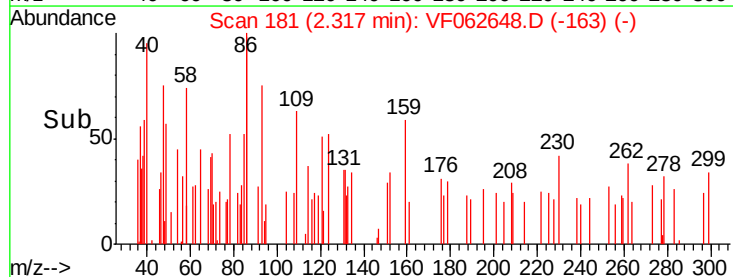
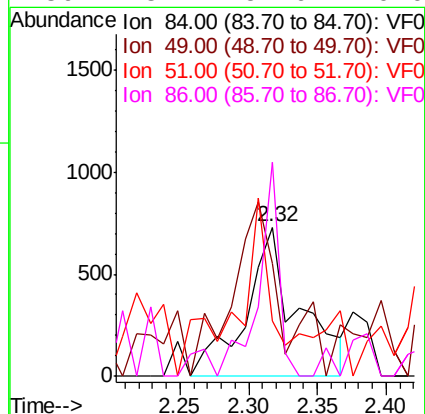
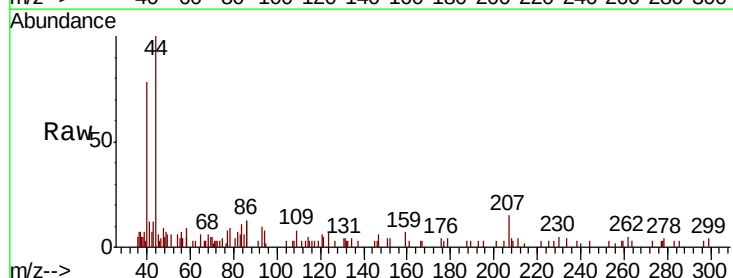
Tot Ion: 73 Resp: 1995
 Ion Ratio Lower Upper
 73 100
 57 0.0 14.2 21.4#

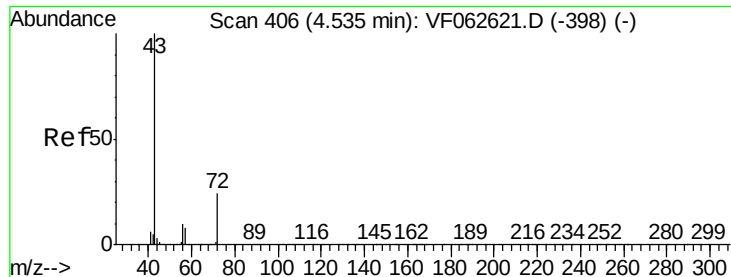


#20

Methylene Chloride
 Concen: 2.503 ug/l
 RT: 2.32 min Scan# 181
 Delta R.T. -0.02 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

Tgt Ion: 84 Resp: 1933
 Ion Ratio Lower Upper
 84 100
 49 75.8 89.8 134.8#
 51 36.7 28.4 42.6
 86 143.7 52.6 79.0#





#25

2-Butanone

Concen: 7.561 ug/l

RT: 4.52 min Scan# 404

Delta R.T. -0.02 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

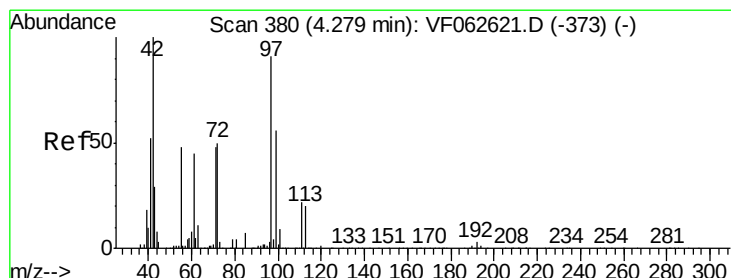
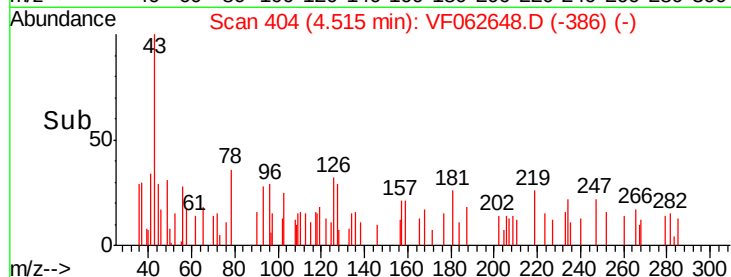
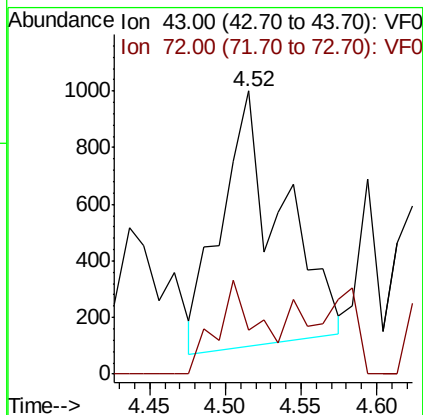
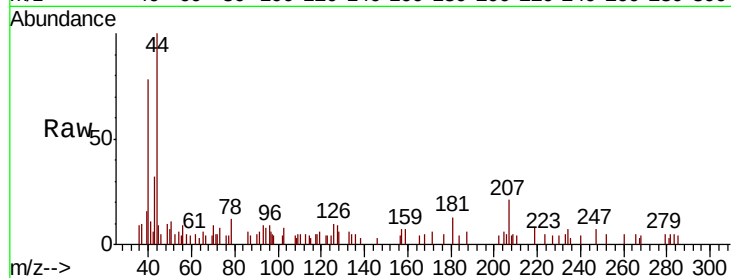
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 2489

Ion Ratio Lower Upper

43 100

72 15.4 20.1 30.1#



#29

Tetrahydrofuran

Concen: 6.486 ug/l

RT: 4.22 min Scan# 374

Delta R.T. -0.06 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

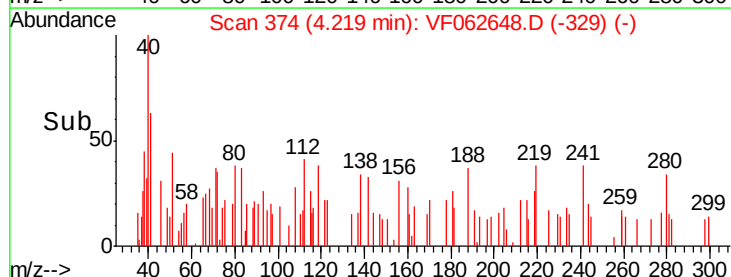
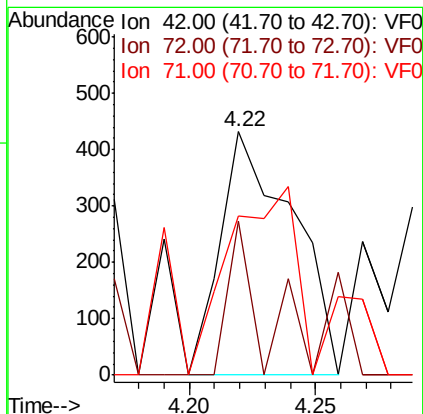
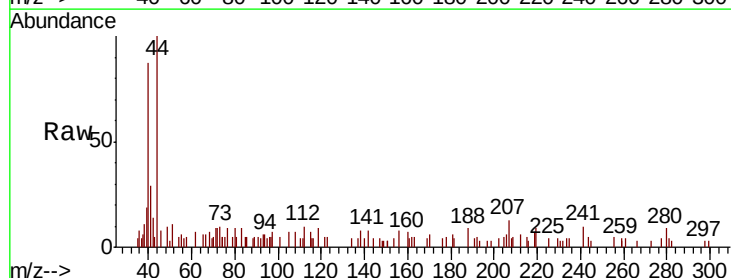
Tgt Ion: 42 Resp: 864

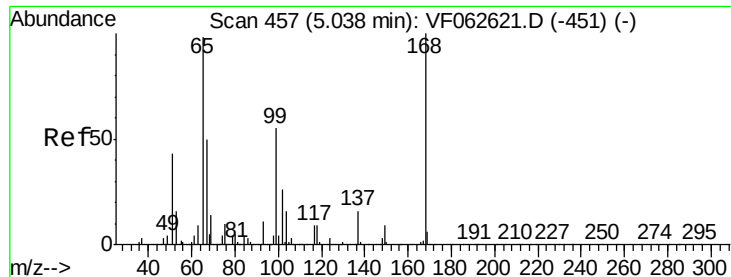
Ion Ratio Lower Upper

42 100

72 42.9 38.2 57.2

71 90.2 35.8 53.6#

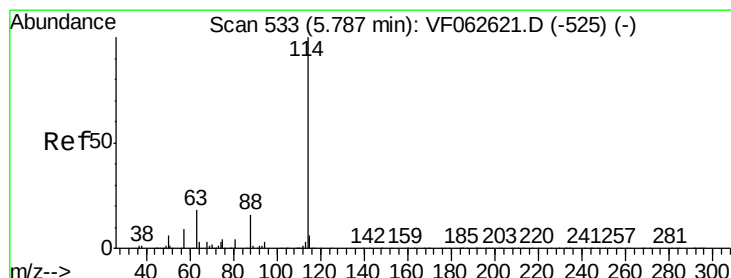
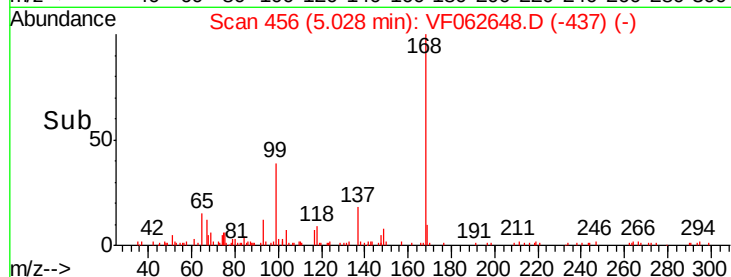
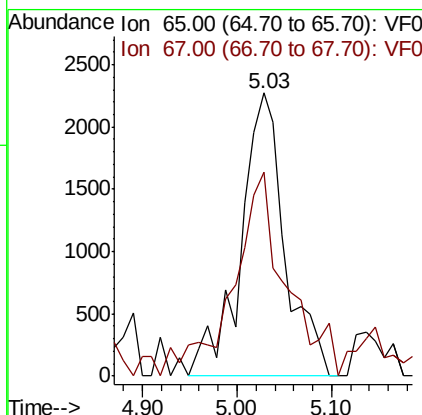
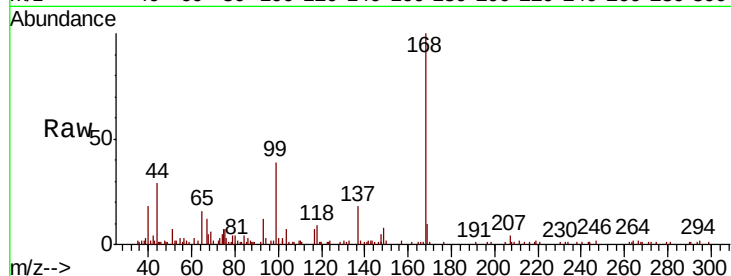




#33
 1,2-Dichloroethane-d4
 Concen: 12.455 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. -0.01 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

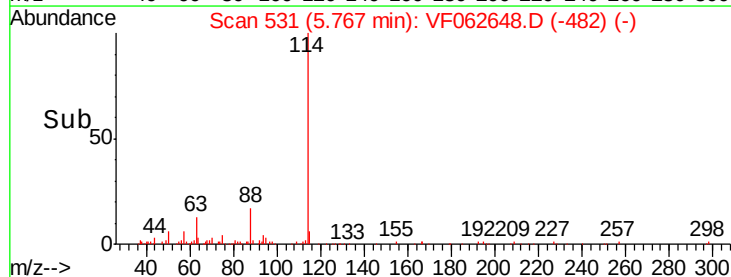
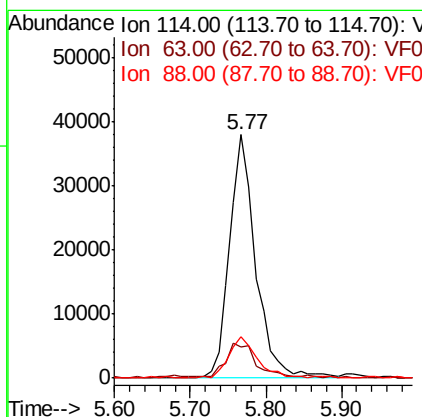
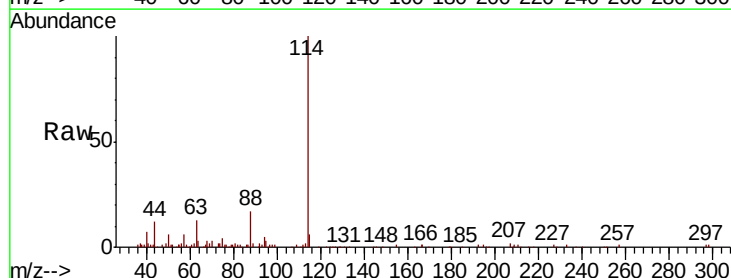
Instrument :
 MSVOA_F
 ClientSampled :

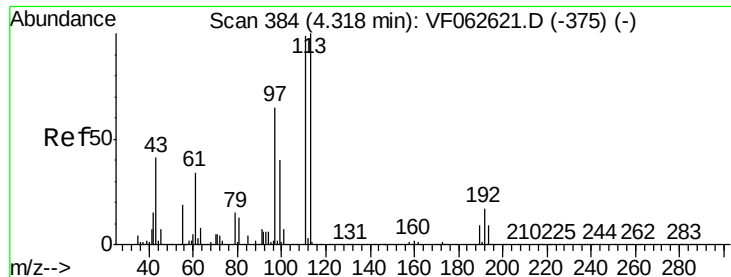
Tot Ion: 65 Resp: 7397
 Ion Ratio Lower Upper
 65 100
 67 71.9 0.0 117.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.02 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

Tgt Ion: 114 Resp: 91079
 Ion Ratio Lower Upper
 114 100
 63 13.0 0.0 35.4
 88 17.0 0.0 32.4

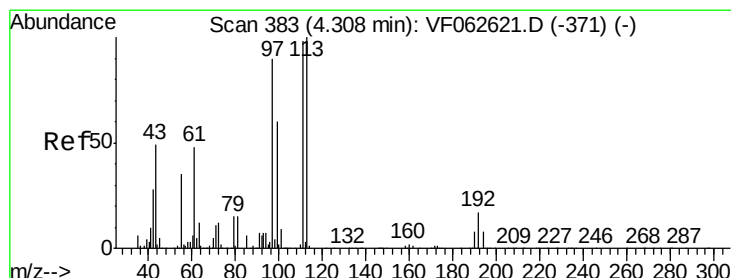
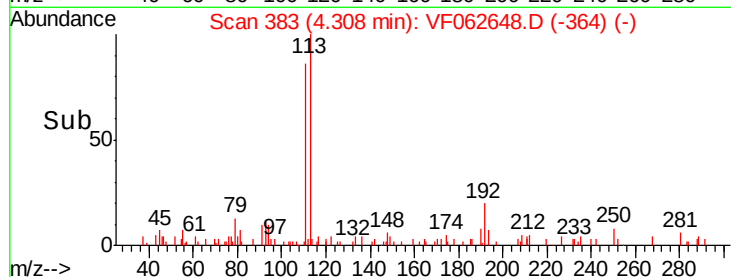
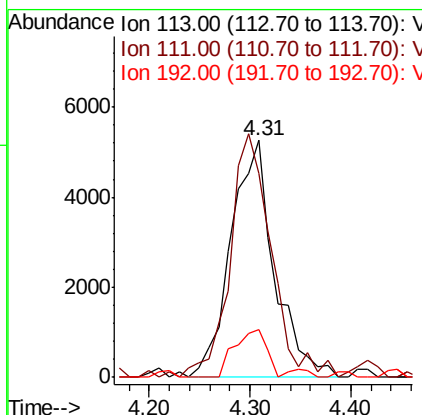
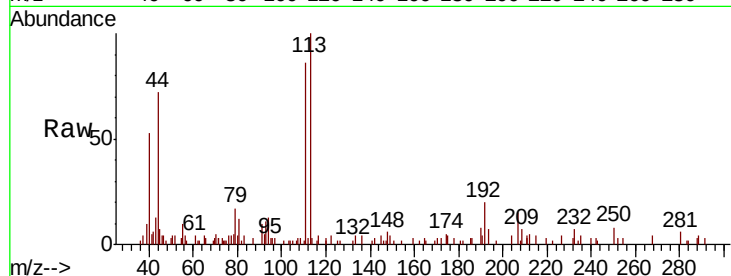




#35
 Dibromofluoromethane
 Concen: 22.639 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. -0.01 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

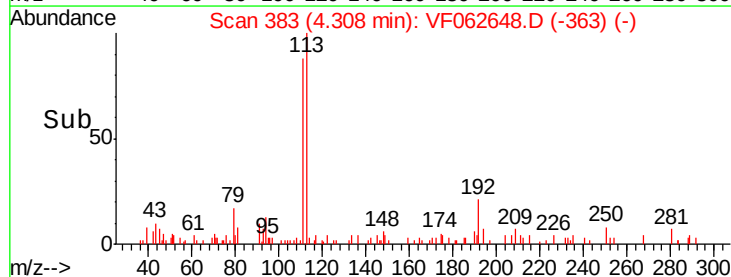
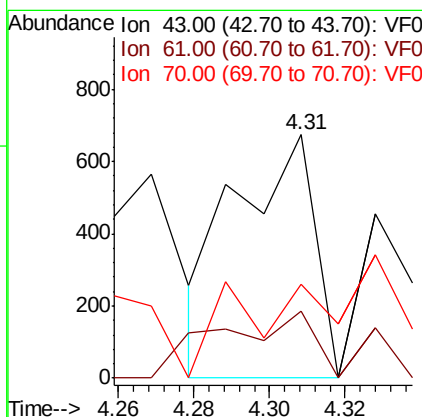
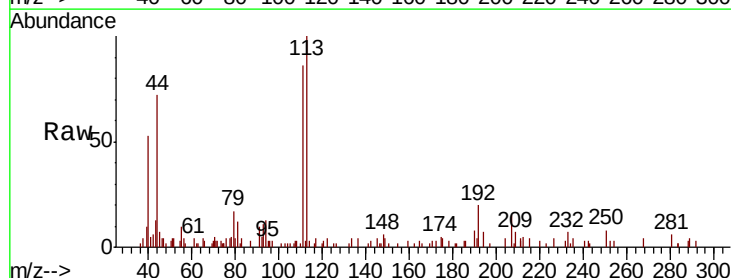
Instrument :
 MSVOA_F
 ClientSampleId :

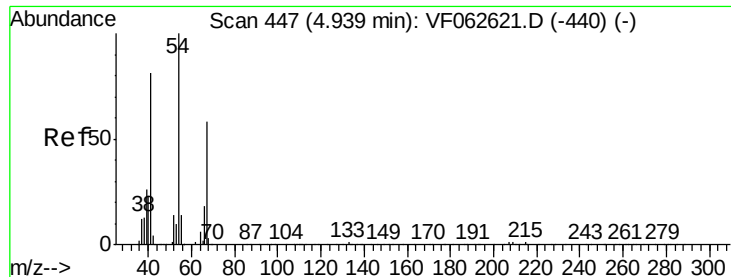
Tot Ion: 113 Resp: 15778
 Ion Ratio Lower Upper
 113 100
 111 83.2 79.4 119.2
 192 19.6 13.4 20.2



#37
 Ethyl Acetate
 Concen: 2.585 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

Tgt Ion: 43 Resp: 985
 Ion Ratio Lower Upper
 43 100
 61 27.6 76.9 115.3#
 70 38.7 8.8 13.2#





#41

Methacrylonitrile

Concen: 4.555 ug/l

RT: 4.89 min Scan# 442

Delta R.T. -0.05 min

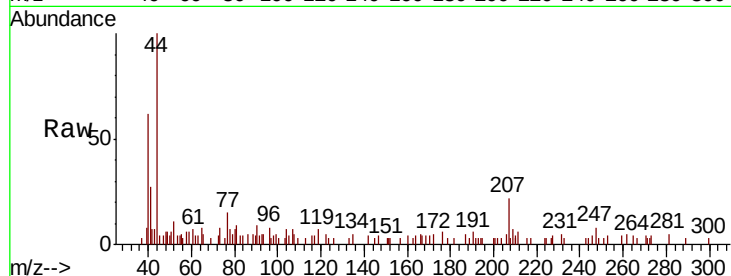
Lab File: VF062648.D

Acq: 17 May 2019 19:47

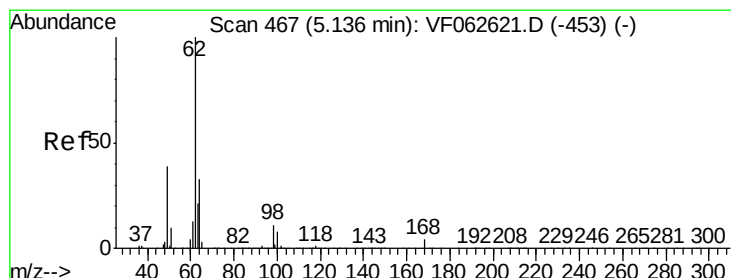
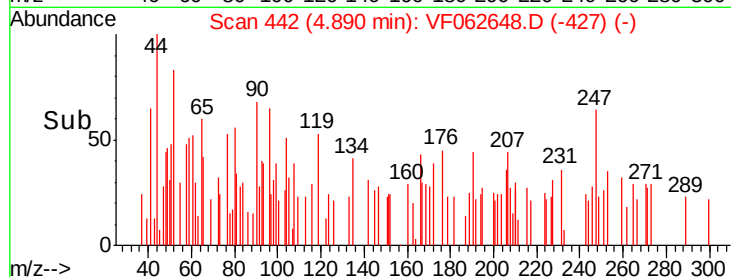
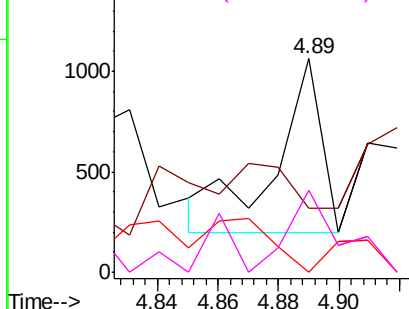
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 41 Resp: 910

Ion	Ratio	Lower	Upper
41	100		
39	29.7	42.2	63.2#
67	0.0	56.4	84.6#
52	38.7	38.8	58.2#



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: 1.120 ug/l

RT: 5.16 min Scan# 469

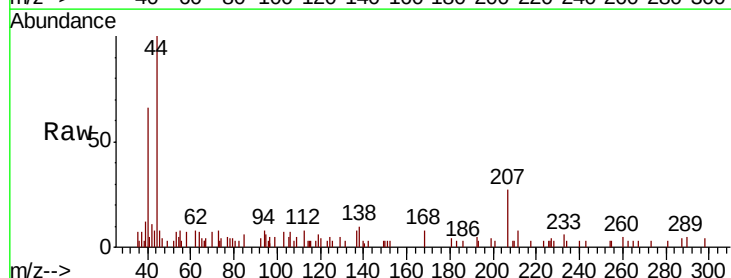
Delta R.T. 0.02 min

Lab File: VF062648.D

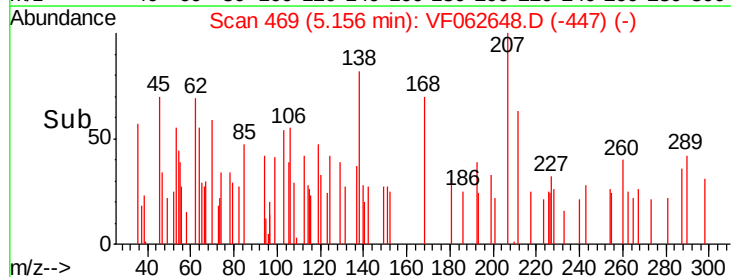
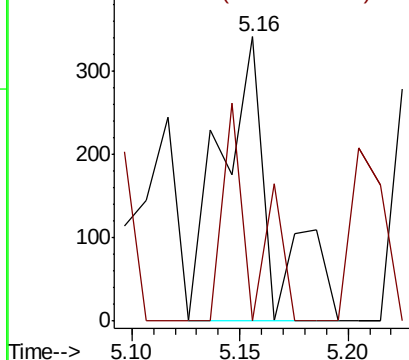
Acq: 17 May 2019 19:47

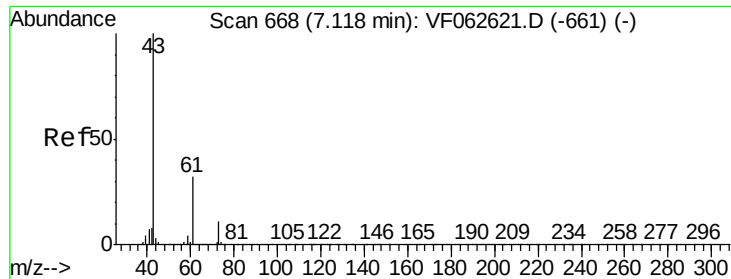
Tgt Ion: 62 Resp: 568

Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	21.6



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



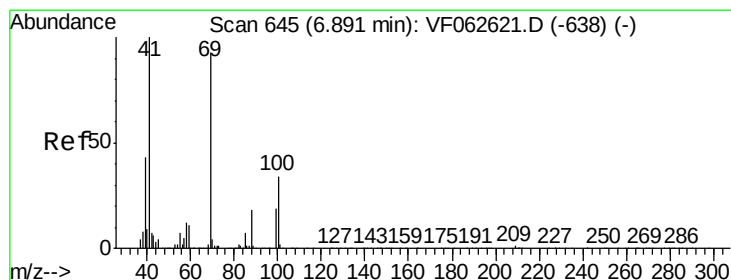
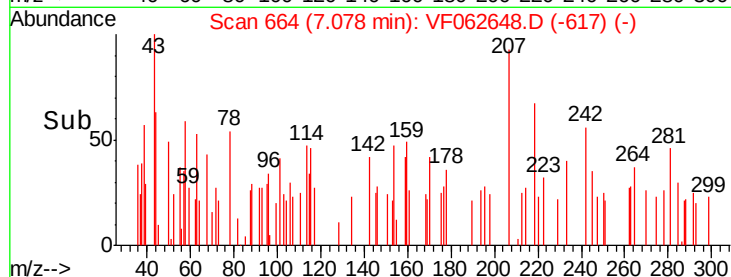
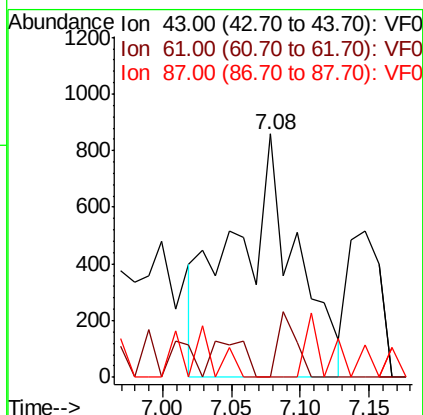
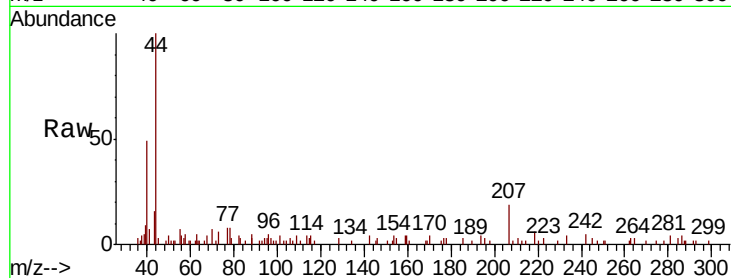


#43

Isopropyl Acetate
 Concen: 5.451 ug/l
 RT: 7.08 min Scan# 664
 Delta R.T. -0.04 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

Instrument :
 MSVOA_F
 ClientSampled :

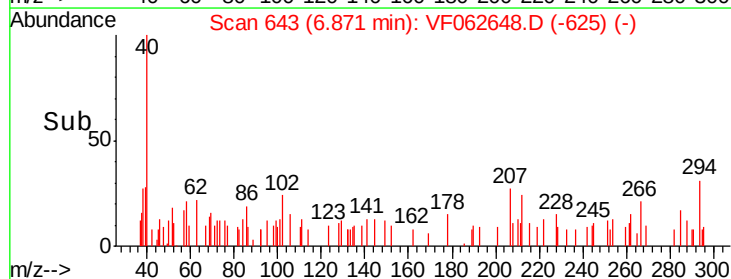
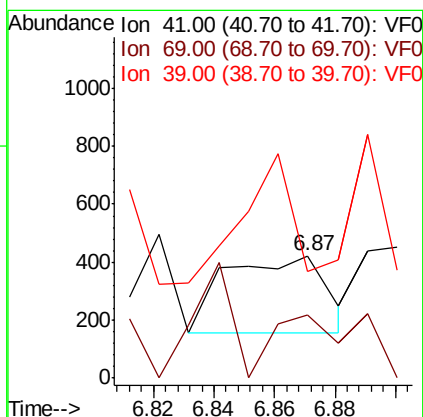
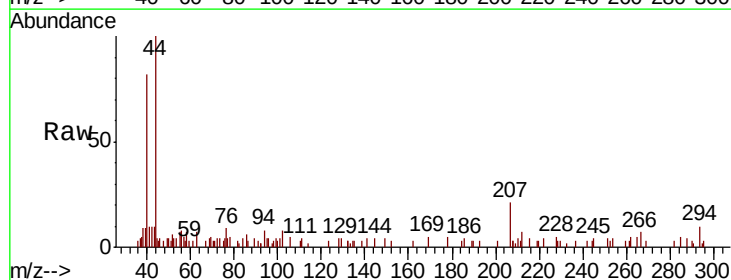
Tot Ion: 43 Resp: 2691
 Ion Ratio Lower Upper
 43 100
 61 0.0 25.8 38.8#
 87 0.0 0.4 0.6#

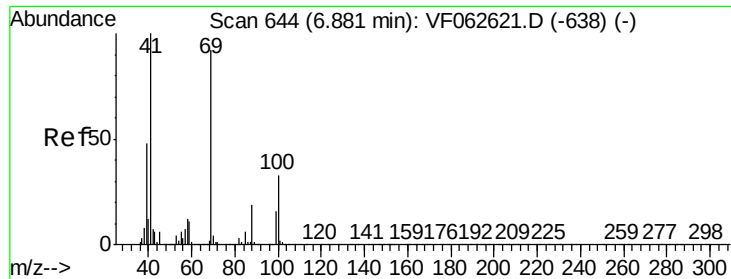


#48

Methyl methacrylate
 Concen: 2.349 ug/l
 RT: 6.87 min Scan# 643
 Delta R.T. -0.02 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

Tgt Ion: 41 Resp: 606
 Ion Ratio Lower Upper
 41 100
 69 51.5 74.2 111.2#
 39 87.6 34.2 51.4#

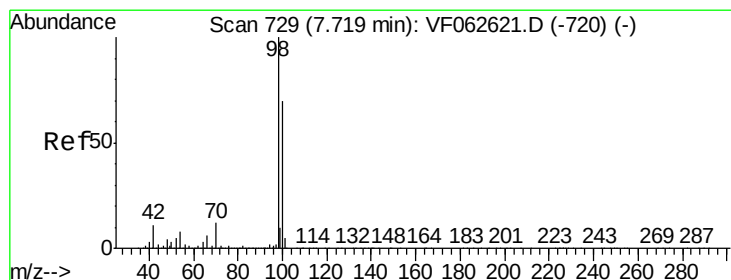
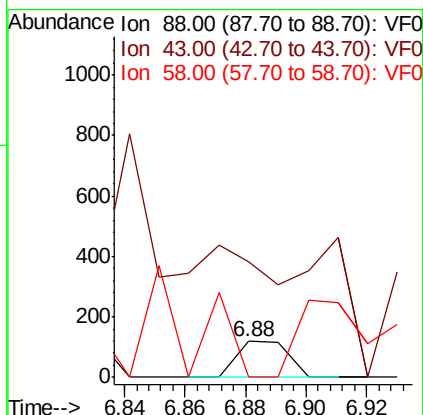
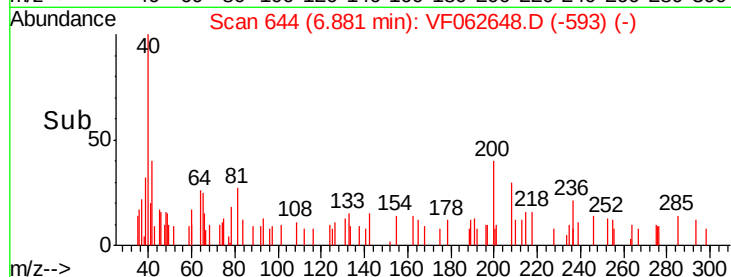
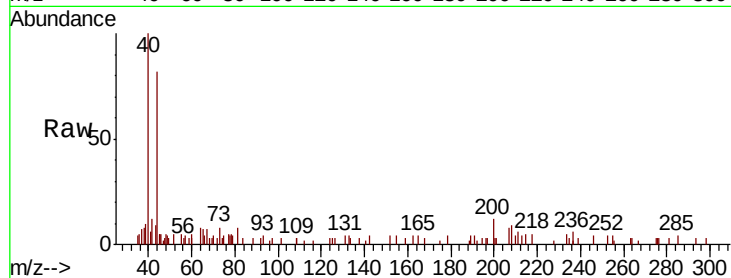




#49
1,4-Dioxane
Concen: 42.059 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.00 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

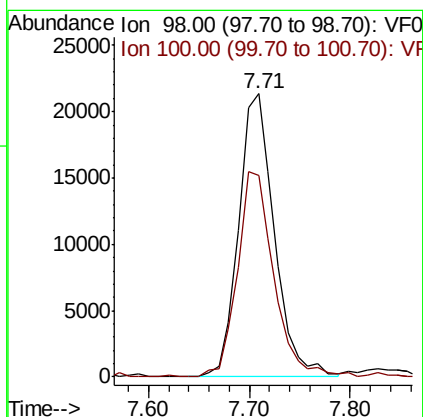
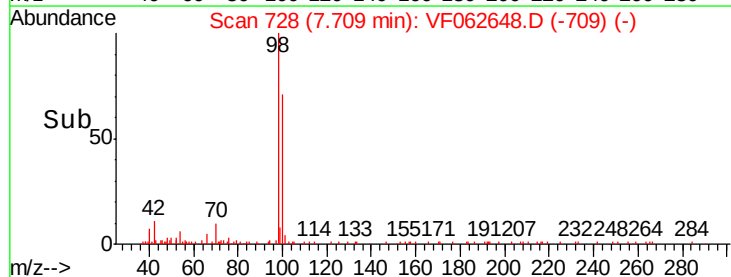
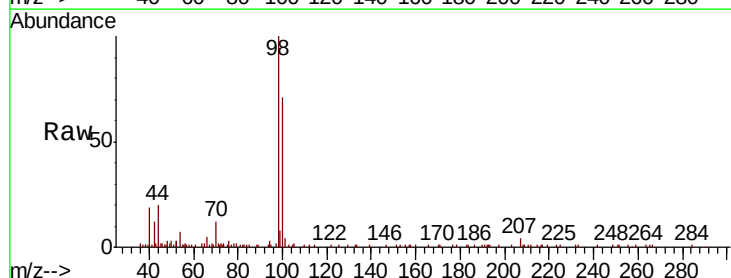
Instrument :
MSVOA_F
ClientSampleId :

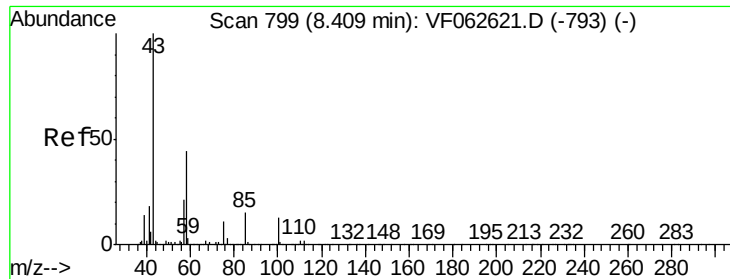
Tot Ion: 88 Resp: 139
Ion Ratio Lower Upper
88 100
43 319.2 30.0 45.0#
58 0.0 51.1 76.7#



#50
Toluene-d8
Concen: 31.600 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

Tgt Ion: 98 Resp: 52583
Ion Ratio Lower Upper
98 100
100 71.3 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 4.617 ug/l

RT: 8.35 min Scan# 793

Delta R.T. -0.06 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

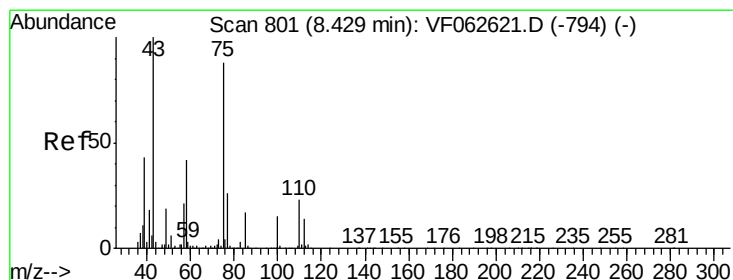
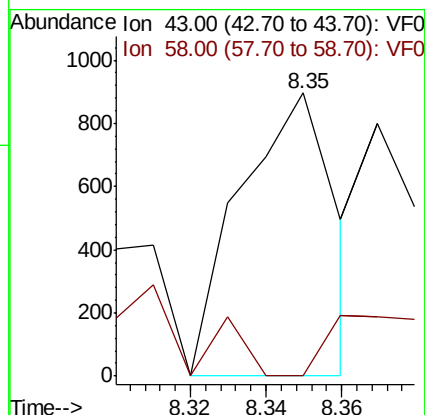
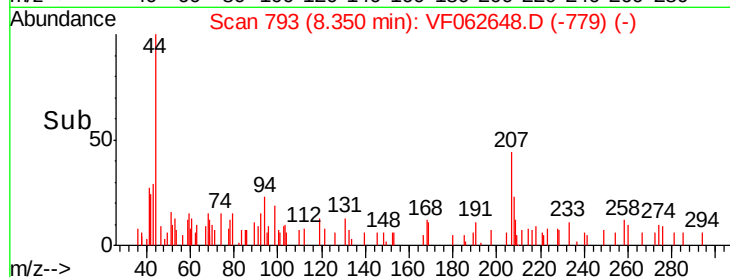
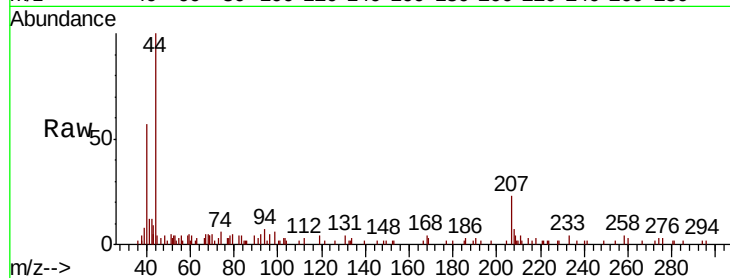
ClientSampled :

Tot Ion: 43 Resp: 1558

Ion Ratio Lower Upper

43 100

58 0.0 34.9 52.3#



#53

t-1,3-Dichloropropene

Concen: 1.019 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.02 min

Lab File: VF062648.D

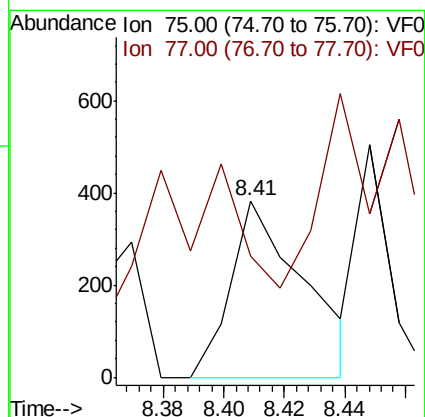
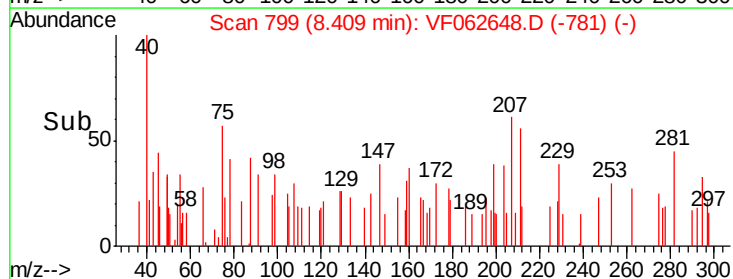
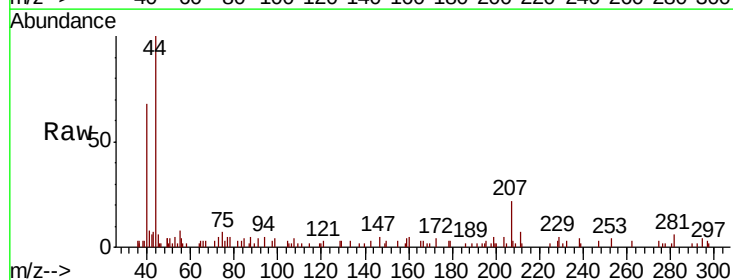
Acq: 17 May 2019 19:47

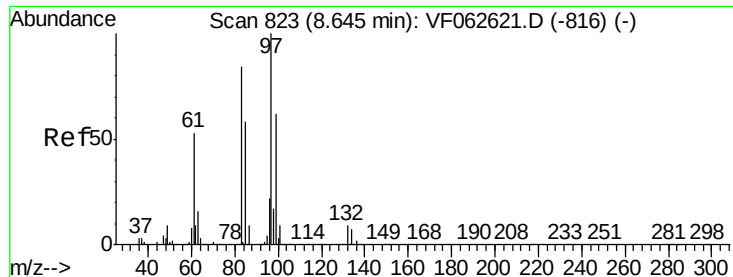
Tgt Ion: 75 Resp: 642

Ion Ratio Lower Upper

75 100

77 68.7 24.2 36.4#





#55

1,1,2-Trichloroethane

Concen: 1.781 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 703

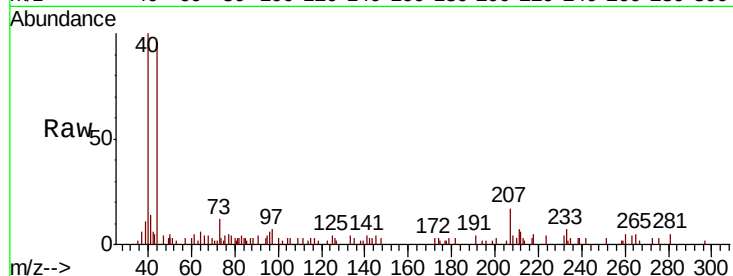
Ion Ratio Lower Upper

97 100

83 50.8 67.3 100.9#

85 67.4 46.6 69.8

99 0.0 49.7 74.5#

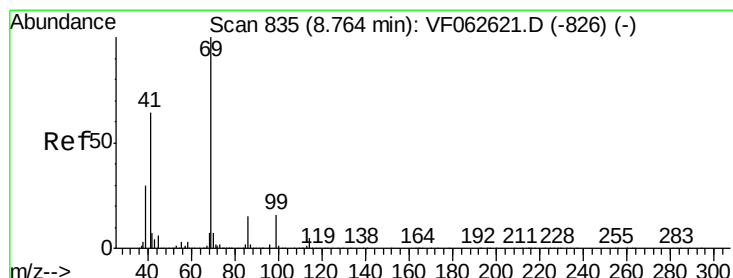
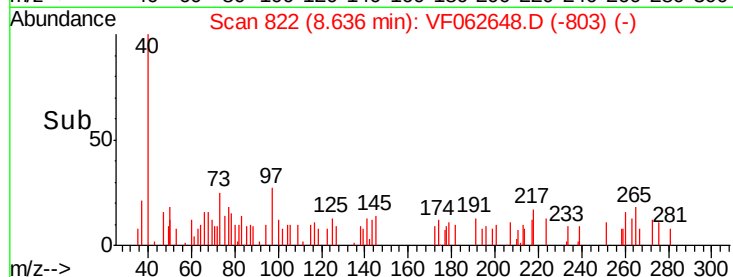
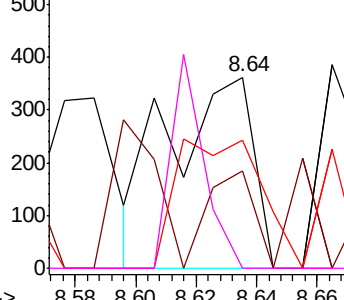


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 1.512 ug/l

RT: 8.73 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

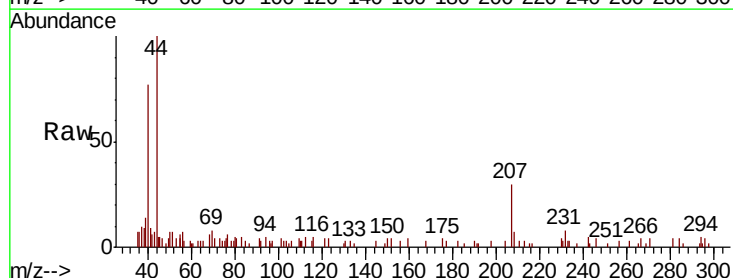
Tgt Ion: 69 Resp: 711

Ion Ratio Lower Upper

69 100

41 117.4 51.4 77.2#

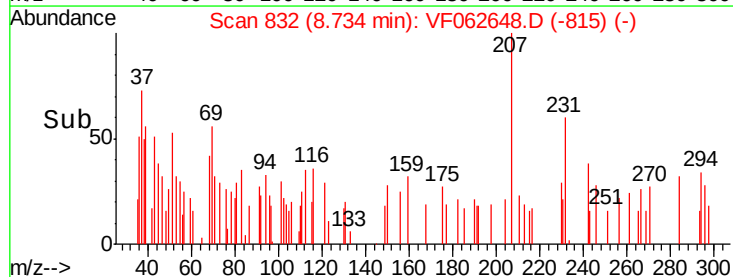
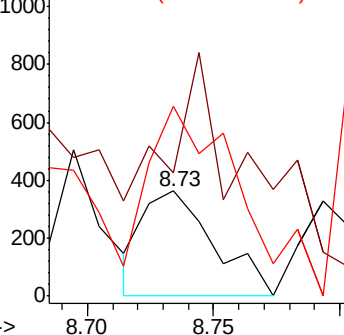
39 180.7 23.6 35.4#

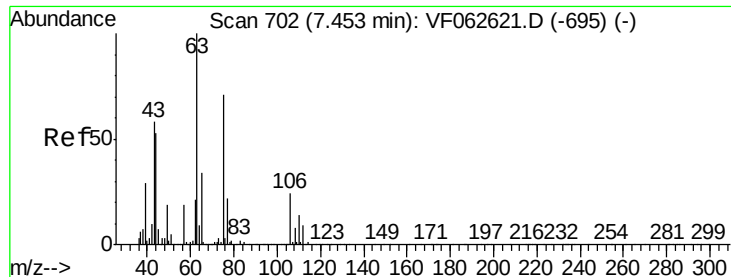


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

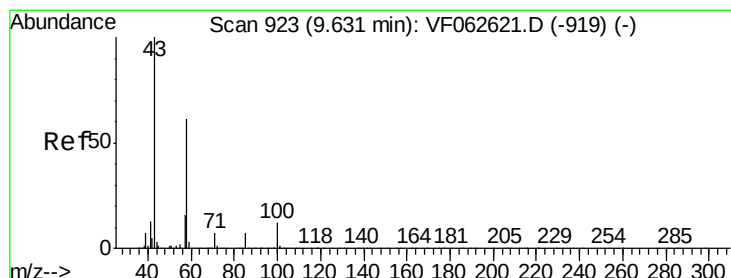
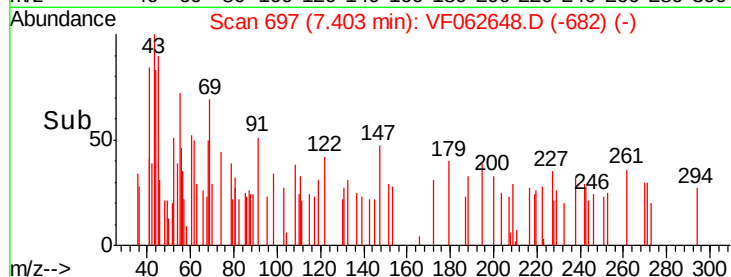
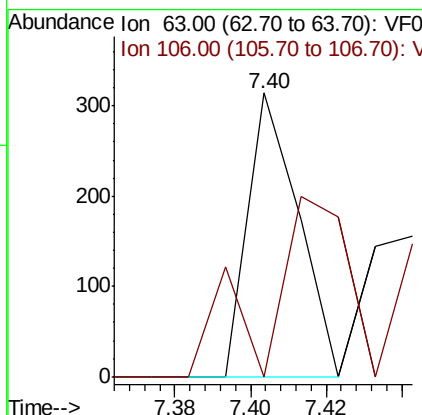
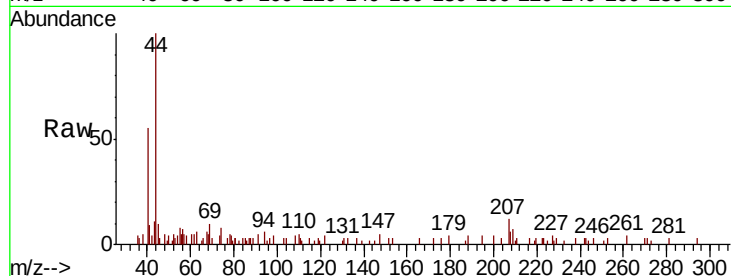




#58
2-Chloroethyl Vinyl ether
Concen: 1.888 ug/l
RT: 7.40 min Scan# 697
Delta R.T. -0.05 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

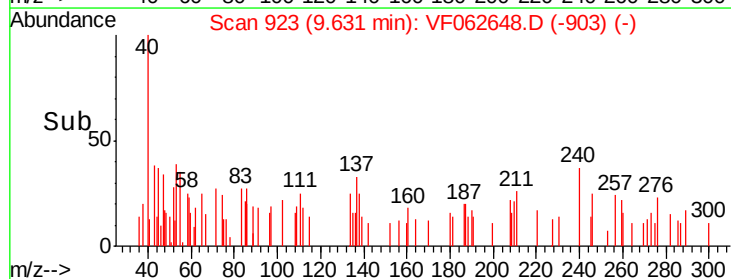
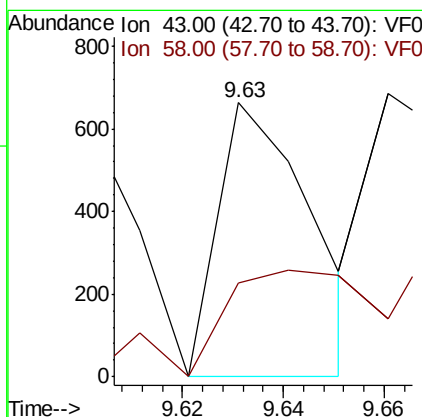
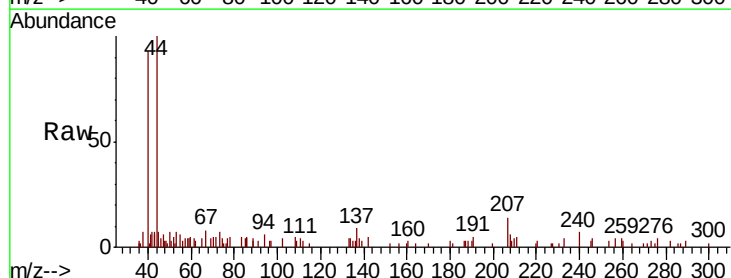
Instrument :
MSVOA_F
ClientSampled :

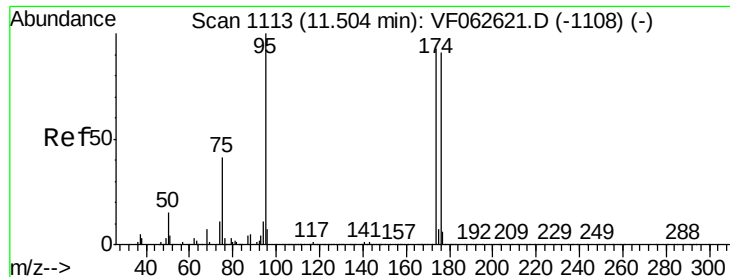
Tot Ion: 63 Resp: 289
Ion Ratio Lower Upper
63 100
106 0.0 19.1 28.7#



#59
2-Hexanone
Concen: Below Cal
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

Tgt Ion: 43 Resp: 853
Ion Ratio Lower Upper
43 100
58 34.1 28.1 84.4

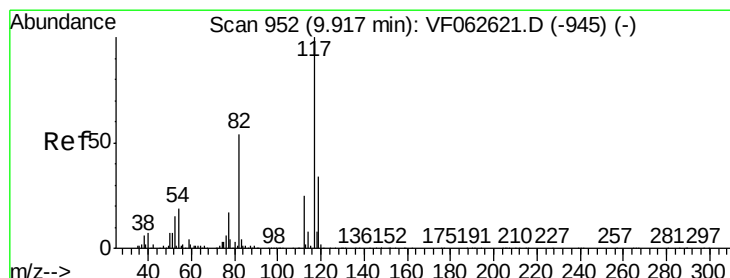
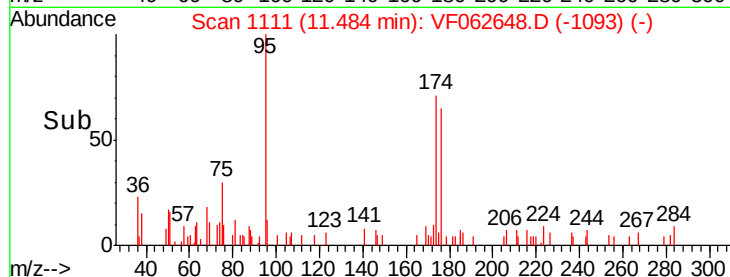
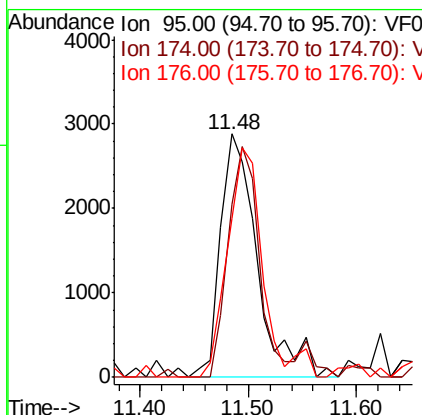
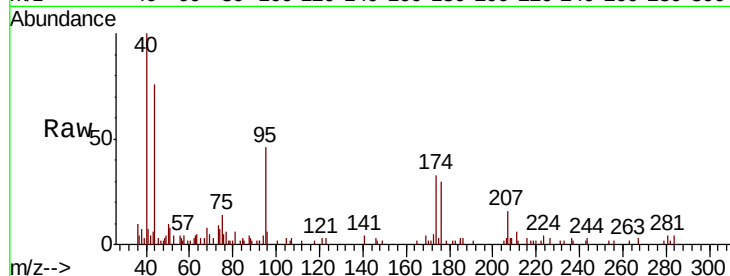




#62
4-Bromofluorobenzene
Concen: 10.909 ug/l
RT: 11.48 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

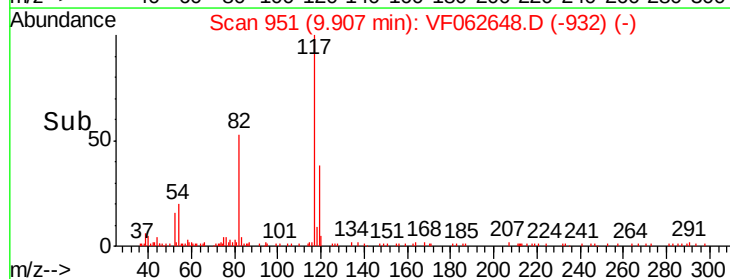
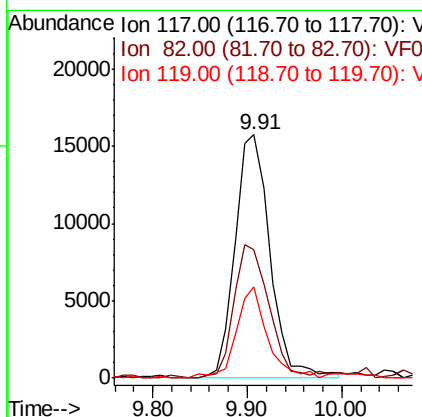
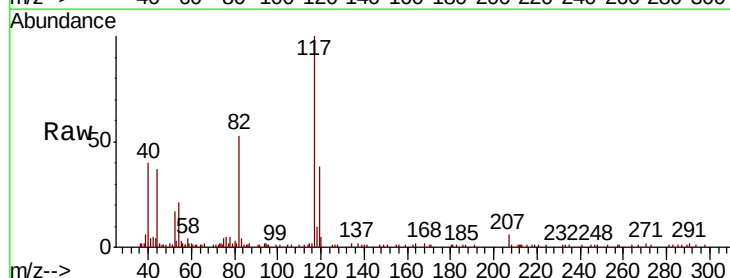
Instrument :
MSVOA_F
ClientSampleId :

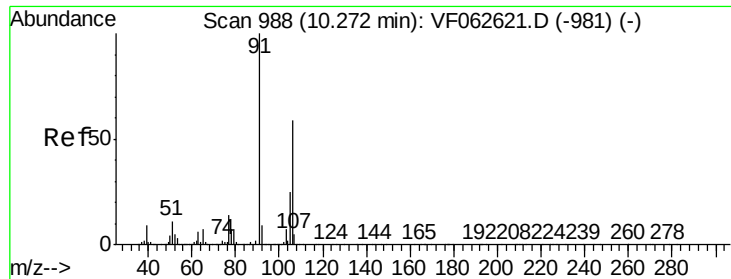
Tot Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	185.6
176	65.3	0.0	182.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.5	43.3	64.9
119	37.6	27.4	41.0

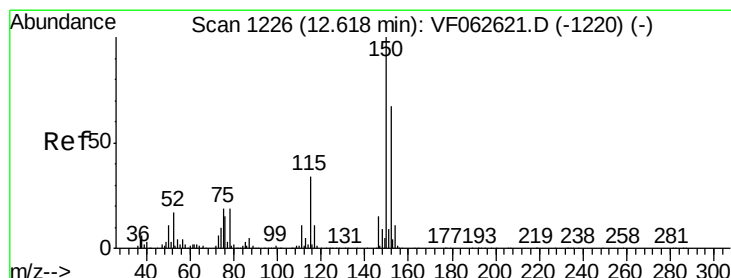
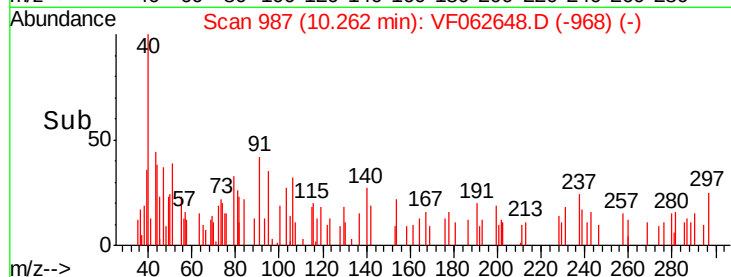
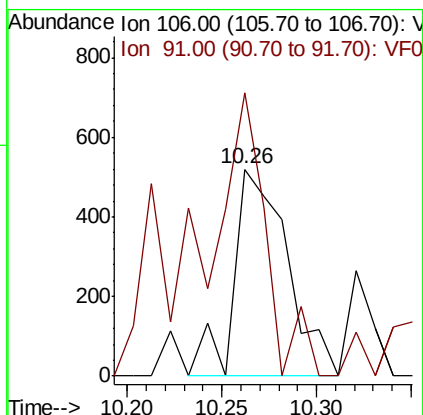
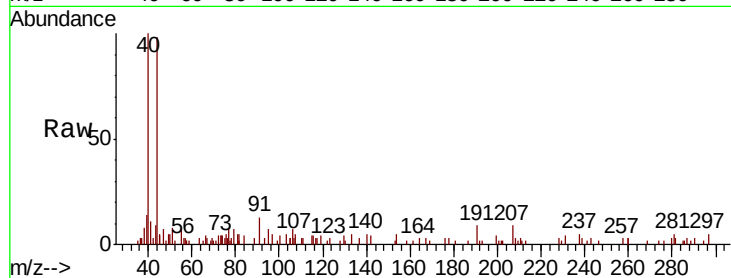




#68
m/p-Xylenes
Concen: 1.977 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.01 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

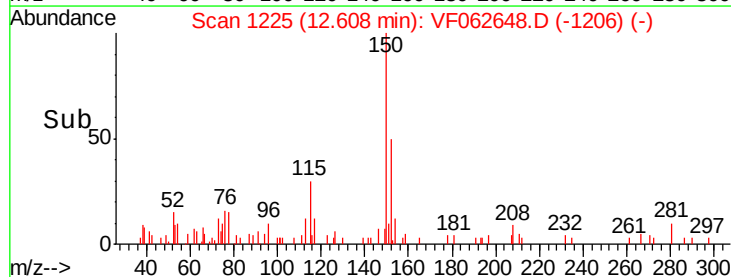
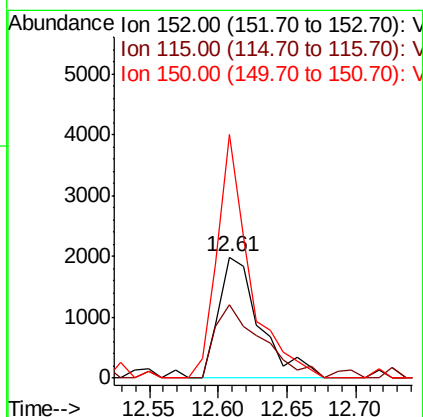
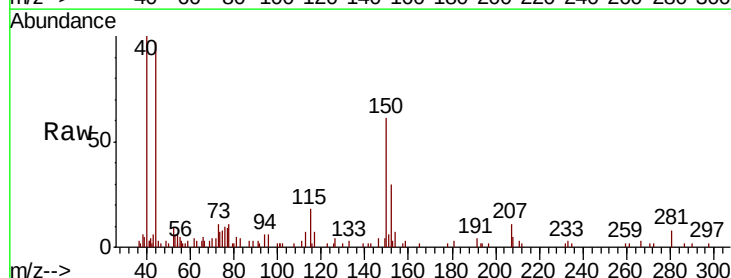
Instrument :
MSVOA_F
ClientSampled :

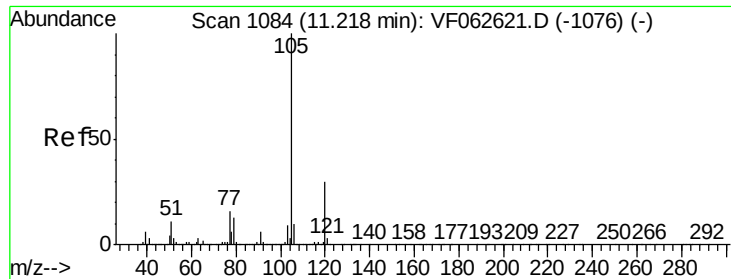
Tot Ion:106 Resp: 1021
Ion Ratio Lower Upper
106 100
91 136.7 136.9 205.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

Tgt Ion:152 Resp: 4115
Ion Ratio Lower Upper
152 100
115 60.7 25.2 75.6
150 200.8 0.0 306.2





#73

Isopropylbenzene

Concen: 2.221 ug/l

RT: 11.20 min Scan# 1082

Delta R.T. -0.02 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

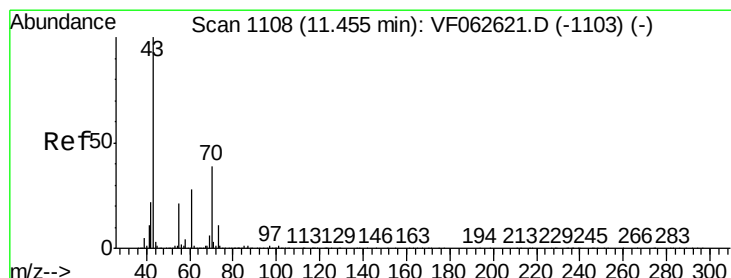
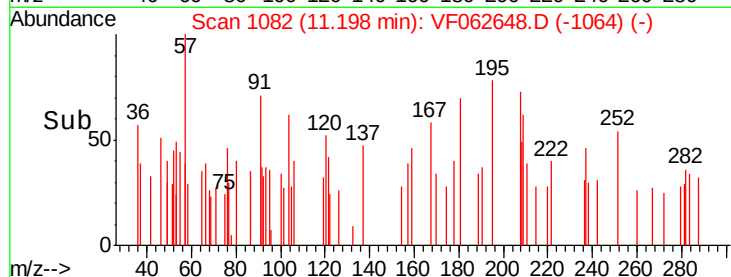
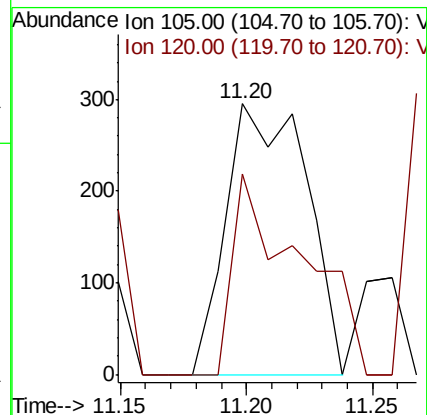
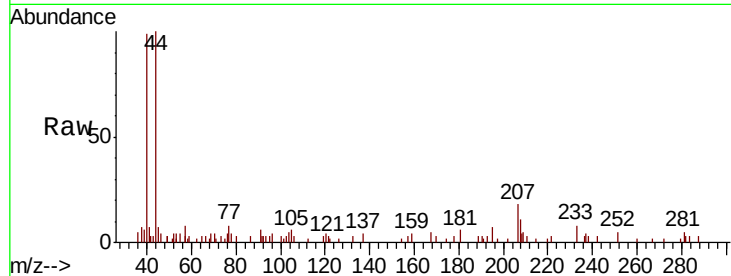
ClientSampleId :

Tot Ion:105 Resp: 655

Ion Ratio Lower Upper

105 100

120 74.2 14.8 44.4#



#74

N-ethyl acetate

Concen: 3.825 ug/l

RT: 11.43 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Tgt Ion: 43 Resp: 661

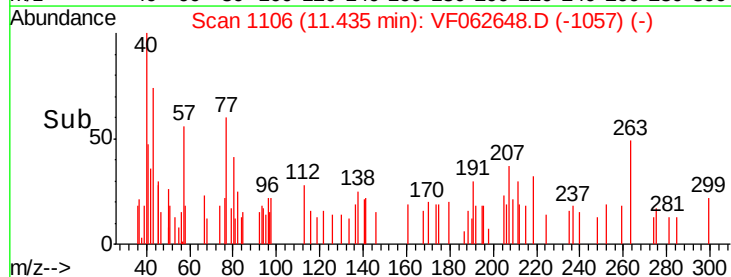
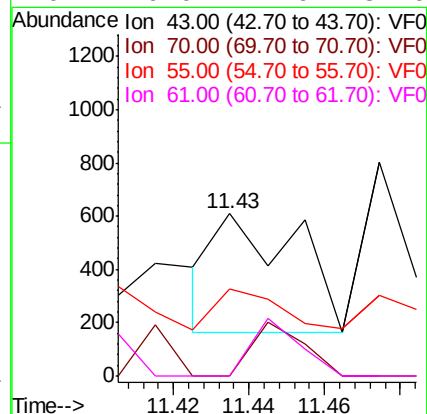
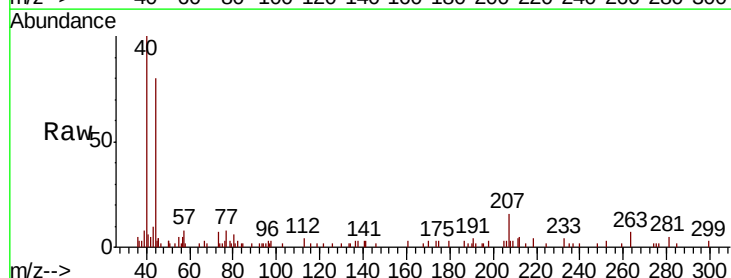
Ion Ratio Lower Upper

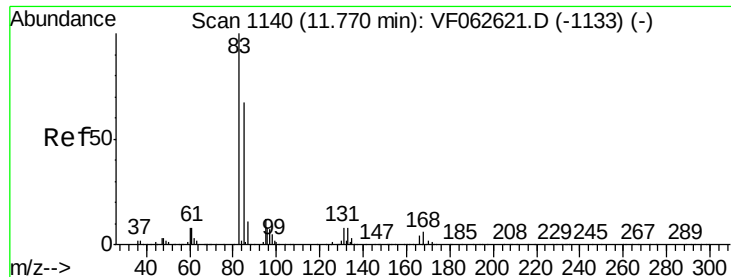
43 100

70 0.0 30.9 46.3#

55 54.0 17.0 25.4#

61 0.0 22.6 34.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 13.621 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.04 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

ClientSampleId :

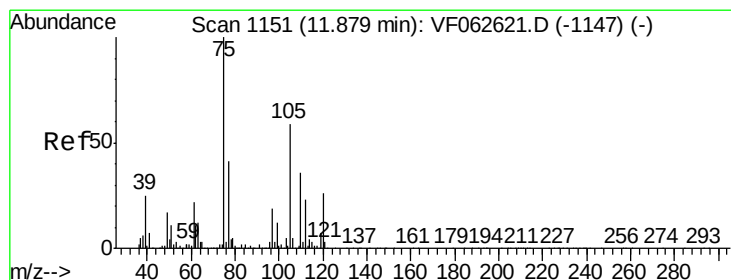
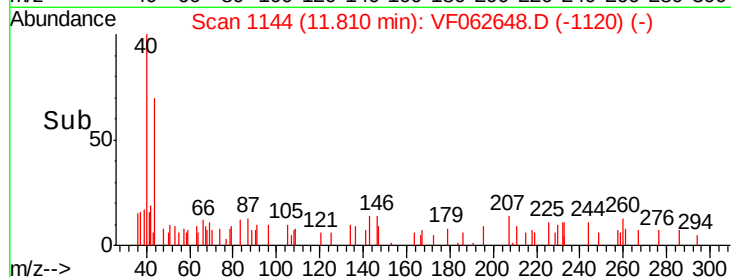
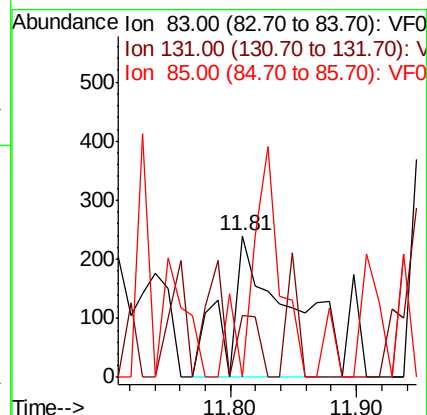
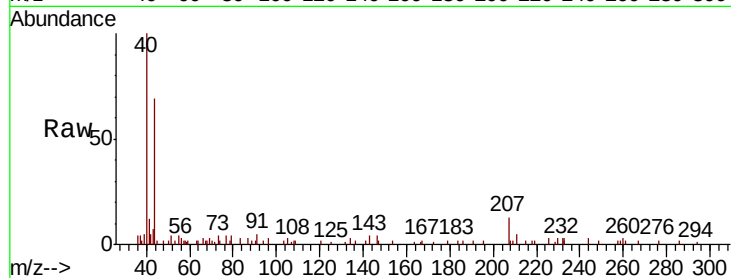
Tot Ion: 83 Resp: 821

Ion Ratio Lower Upper

83 100

131 43.3 4.0 12.0#

85 0.0 33.5 100.5#



#76

1,2,3-Trichloropropane

Concen: 19.948 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.10 min

Lab File: VF062648.D

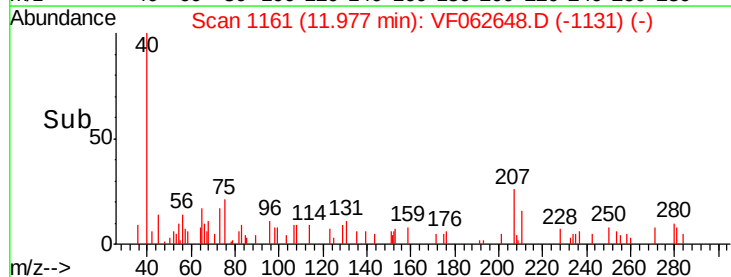
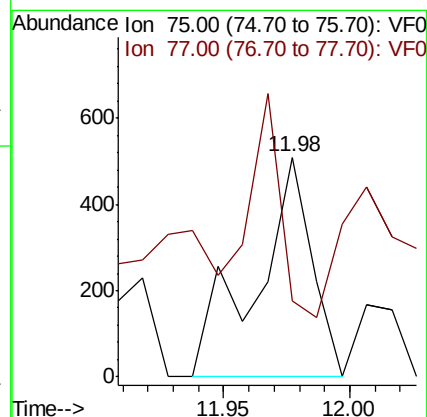
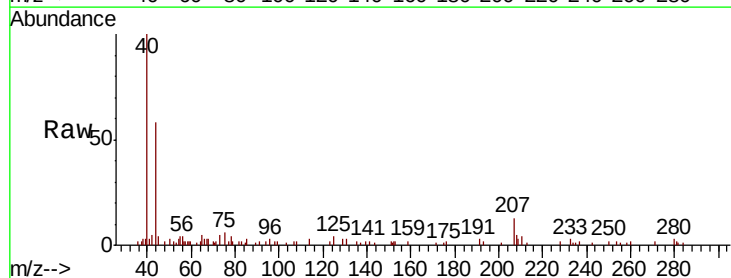
Acq: 17 May 2019 19:47

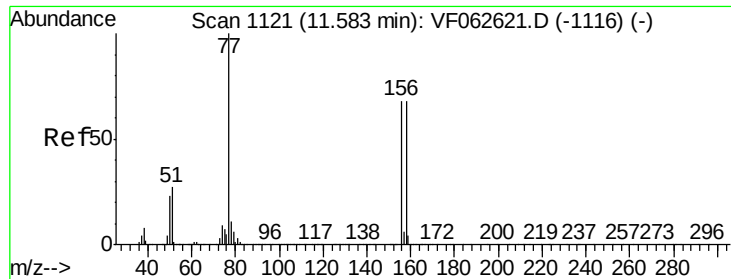
Tgt Ion: 75 Resp: 790

Ion Ratio Lower Upper

75 100

77 34.4 20.6 61.8





#77

Bromobenzene

Concen: 1.405 ug/l

RT: 11.66 min Scan# 1129

Delta R.T. 0.08 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

ClientSampled :

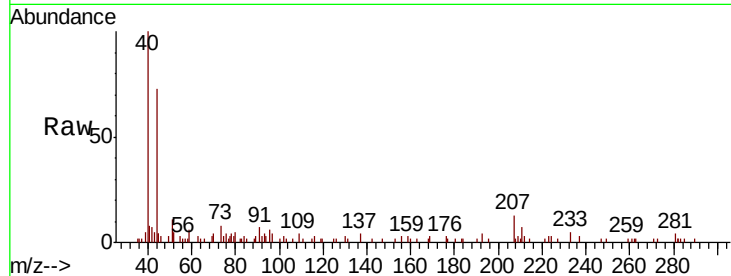
Tot Ion:156 Resp: 103

Ion Ratio Lower Upper

156 100

77 210.3 73.6 220.8

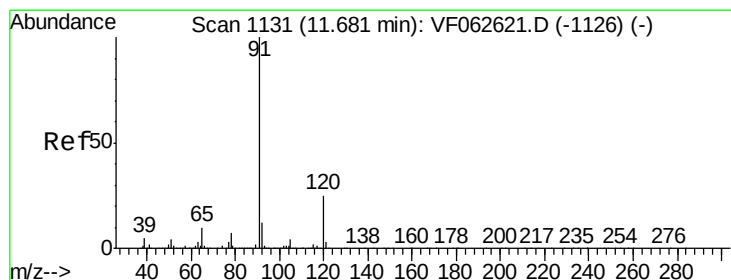
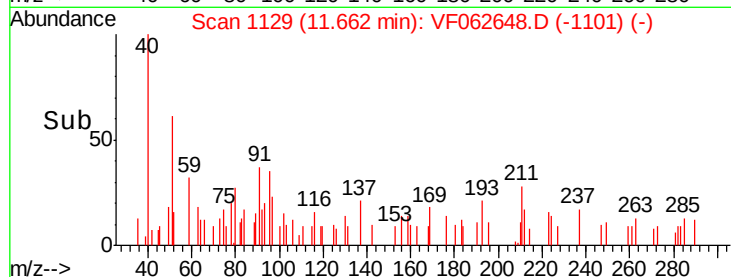
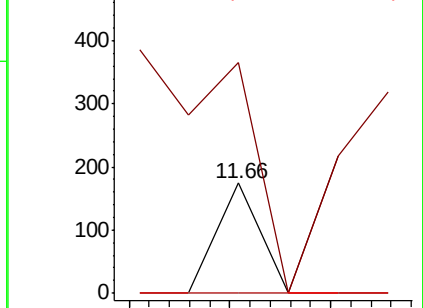
158 96.0 49.6 148.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 2.252 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.13 min

Lab File: VF062648.D

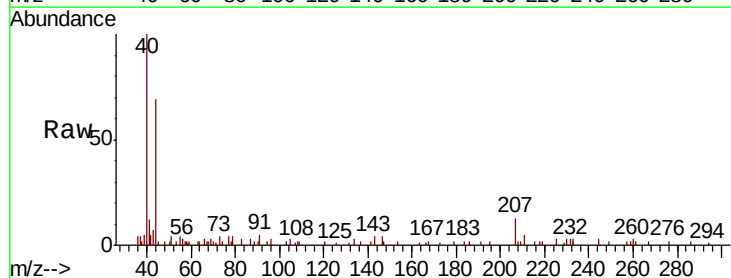
Acq: 17 May 2019 19:47

Tgt Ion: 91 Resp: 786

Ion Ratio Lower Upper

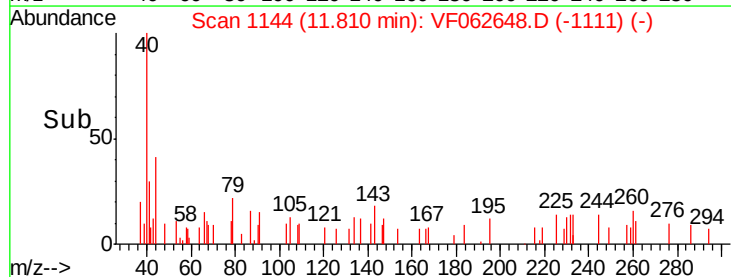
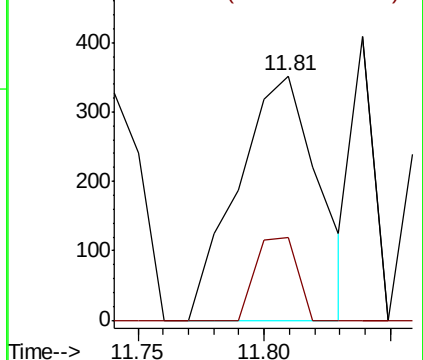
91 100

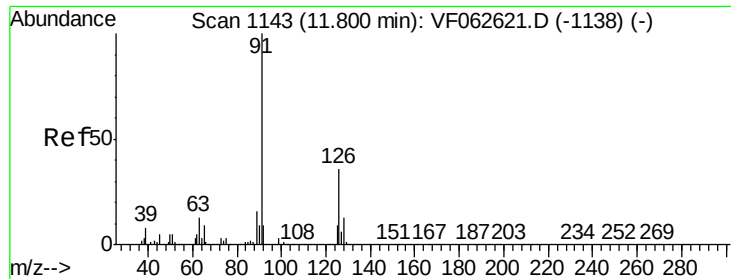
120 33.8 12.7 38.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 1.484 ug/l

RT: 11.71 min Scan# 1134

Delta R.T. -0.09 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

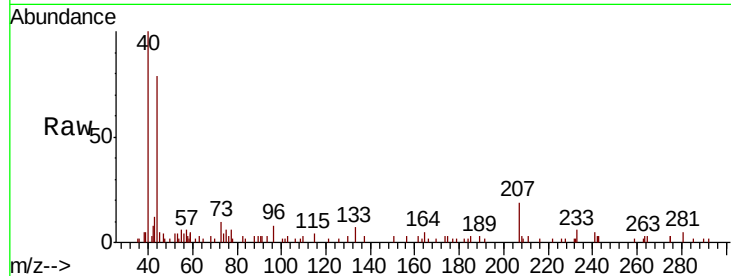
ClientSampleId :

Tot Ion: 91 Resp: 292

Ion Ratio Lower Upper

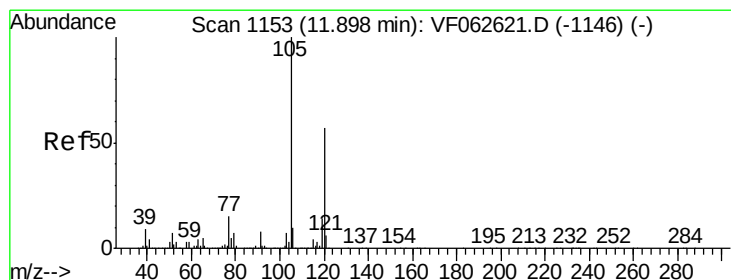
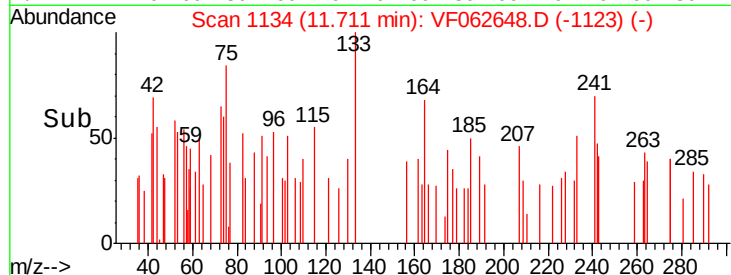
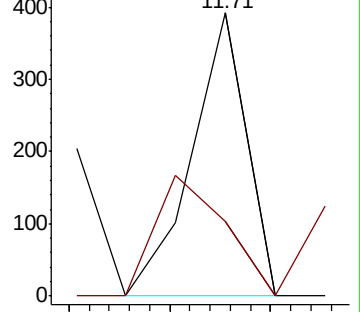
91 100

126 26.5 18.1 54.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 1.899 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.09 min

Lab File: VF062648.D

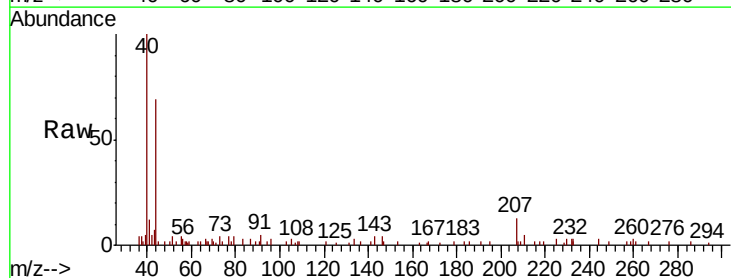
Acq: 17 May 2019 19:47

Tgt Ion: 105 Resp: 449

Ion Ratio Lower Upper

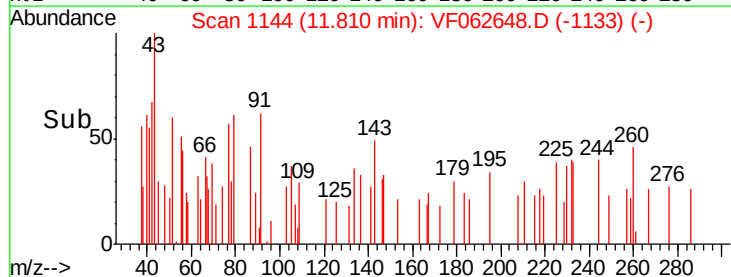
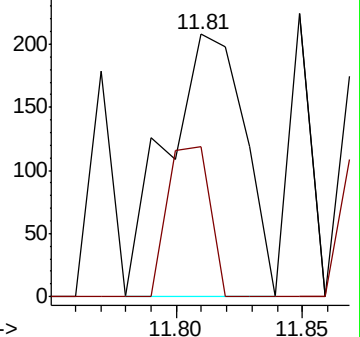
105 100

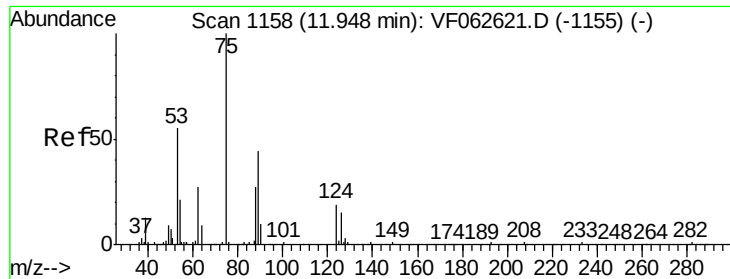
120 57.2 28.7 86.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

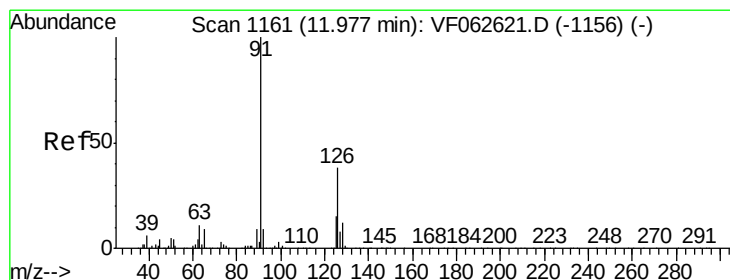
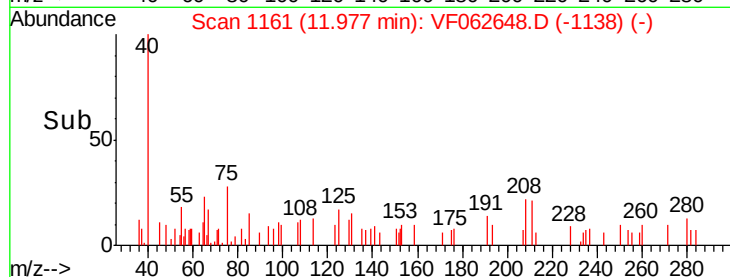
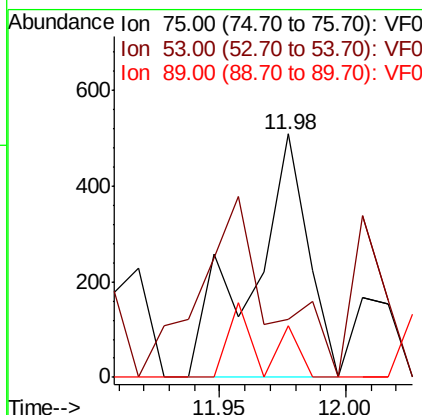
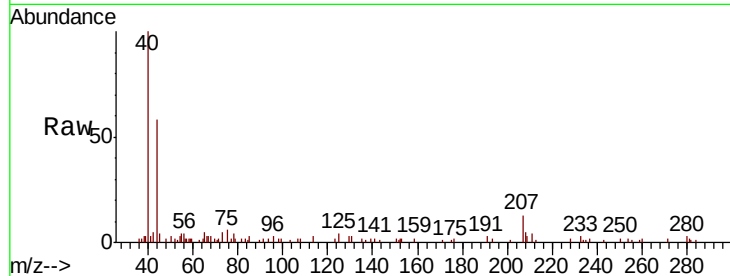




#81
trans-1,4-Dichloro-2-butene
Concen: 44.877 ug/l
RT: 11.98 min Scan# 1161
Delta R.T. 0.03 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

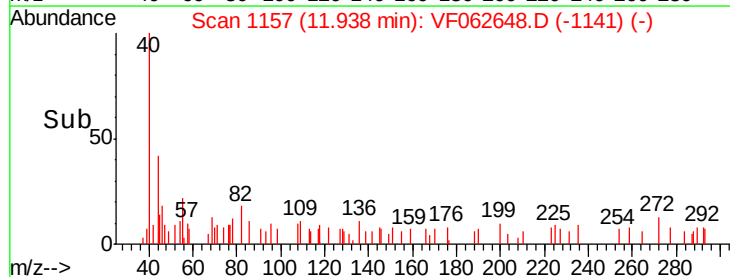
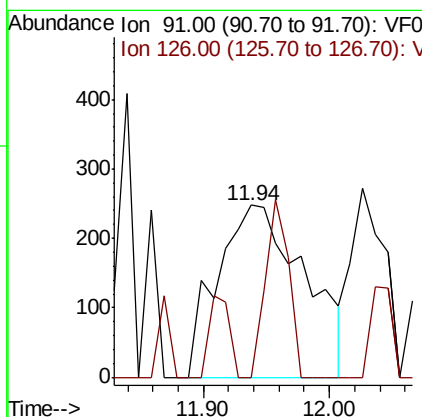
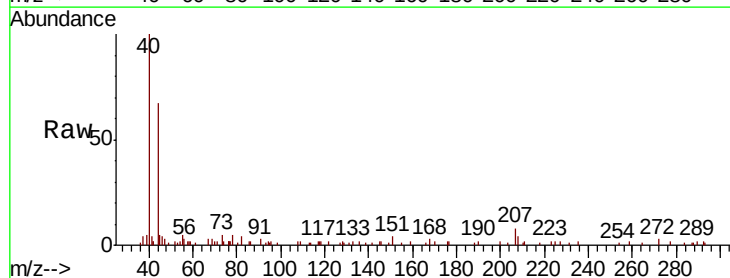
Instrument :
MSVOA_F
ClientSampleId :

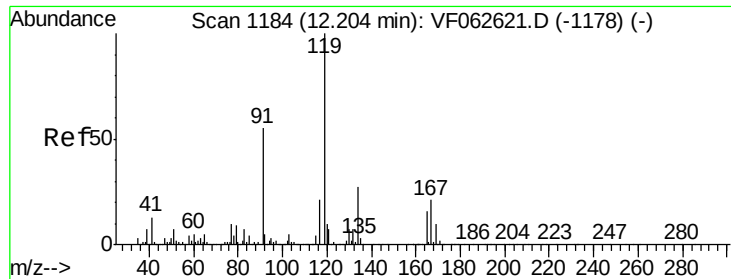
Tot Ion: 75 Resp: 790
Ion Ratio Lower Upper
75 100
53 23.8 46.9 70.3#
89 21.0 36.4 54.6#



#82
4-Chlorotoluene
Concen: 6.160 ug/l
RT: 11.94 min Scan# 1157
Delta R.T. -0.04 min
Lab File: VF062648.D
Acq: 17 May 2019 19:47

Tgt Ion: 91 Resp: 1195
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.1#





#83

tert-Butylbenzene

Concen: 3.080 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

ClientSampleId :

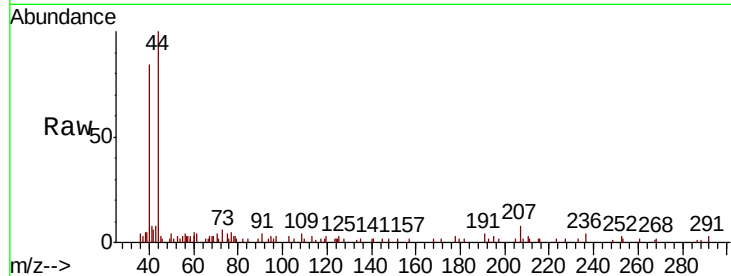
Tot Ion:119 Resp: 739

Ion Ratio Lower Upper

119 100

91 71.7 27.3 81.9

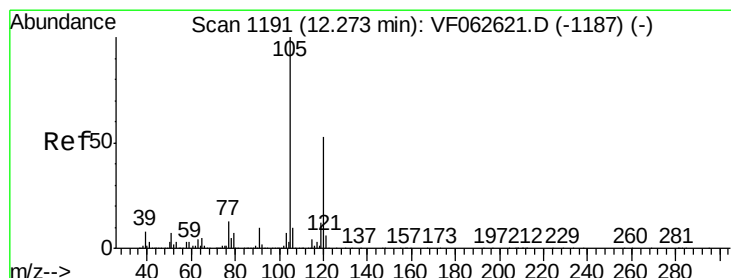
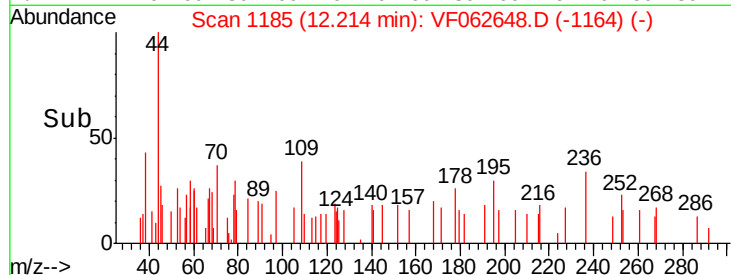
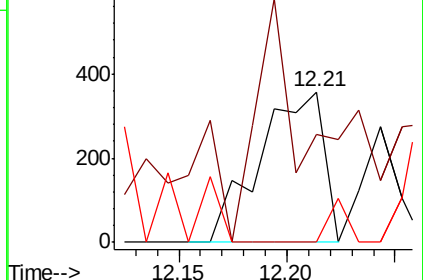
134 0.0 13.6 40.7#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 3.539 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. 0.09 min

Lab File: VF062648.D

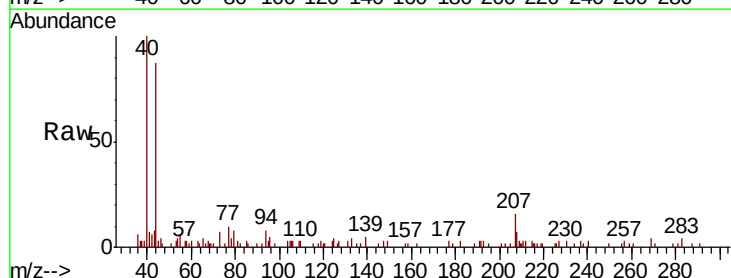
Acq: 17 May 2019 19:47

Tgt Ion:105 Resp: 810

Ion Ratio Lower Upper

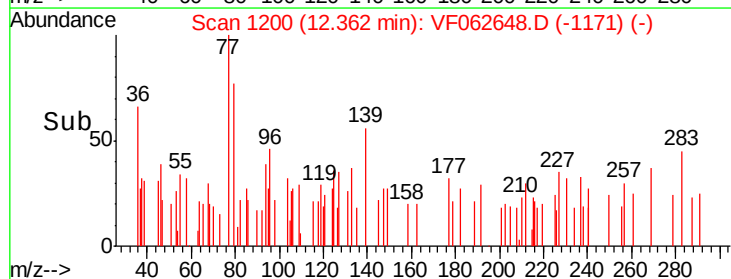
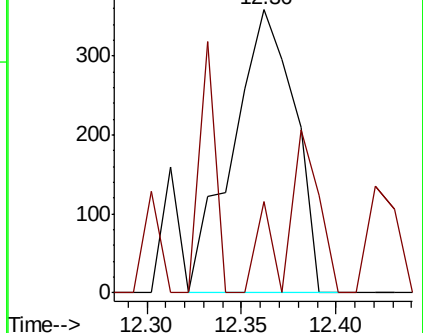
105 100

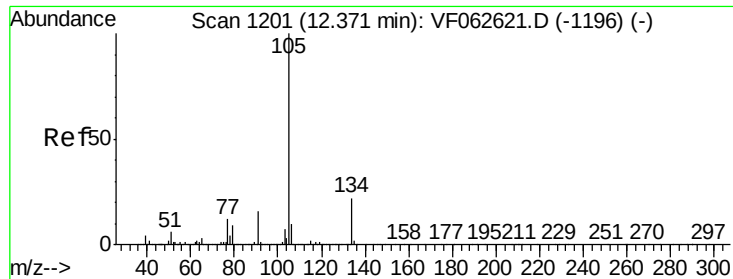
120 32.1 26.7 80.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

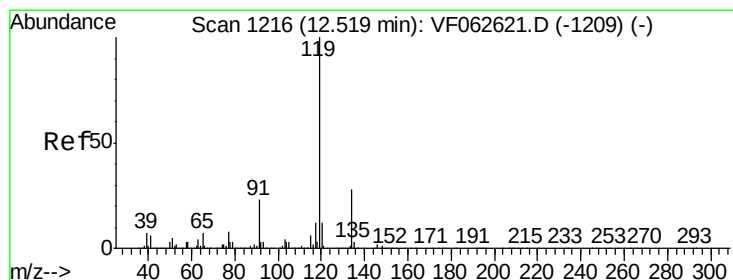
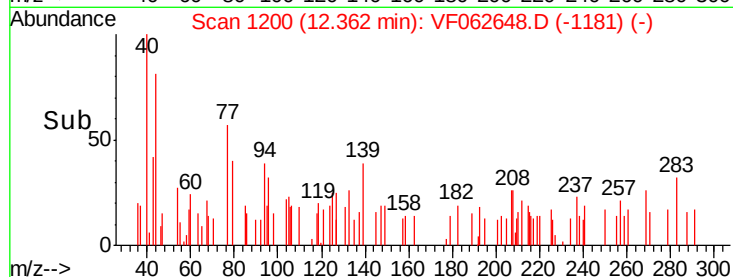
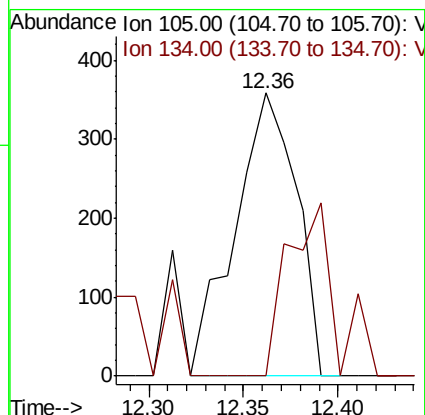
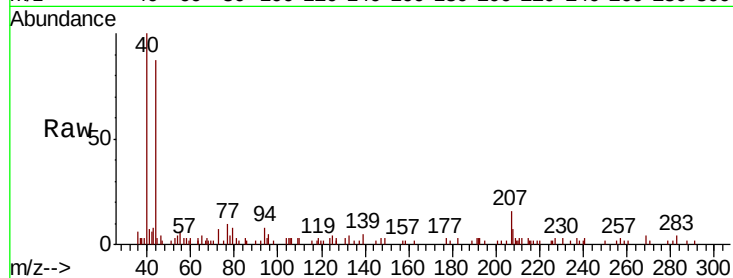




#85
 sec-Butylbenzene
 Concen: 2.516 ug/l
 RT: 12.36 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

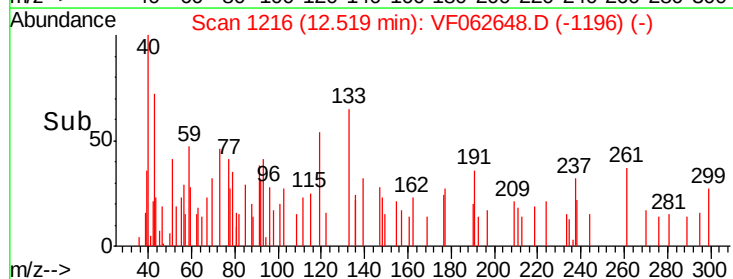
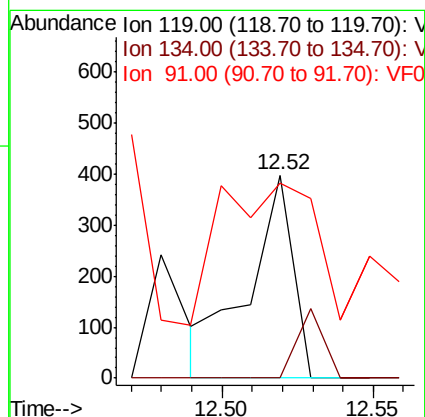
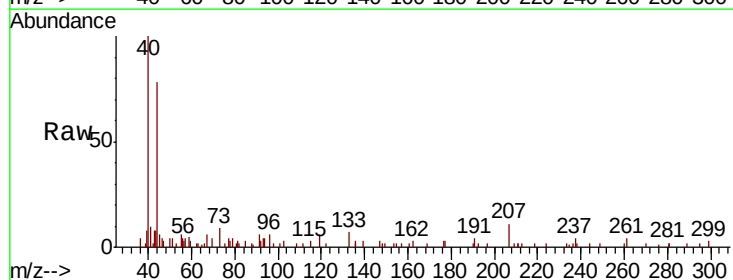
Instrument :
 MSVOA_F
 ClientSampleId :

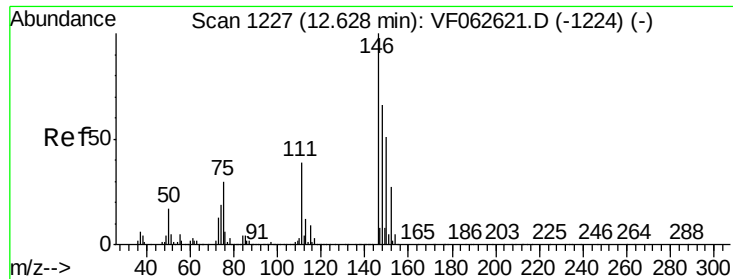
Tot Ion:105 Resp: 810
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.8 32.4#



#86
 p-Isopropyltoluene
 Concen: 1.474 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. 0.00 min
 Lab File: VF062648.D
 Acq: 17 May 2019 19:47

Tgt Ion:119 Resp: 400
 Ion Ratio Lower Upper
 119 100
 134 0.0 14.1 42.3#
 91 96.2 11.4 34.2#





#88

1,4-Dichlorobenzene

Concen: 2.250 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VF062648.D

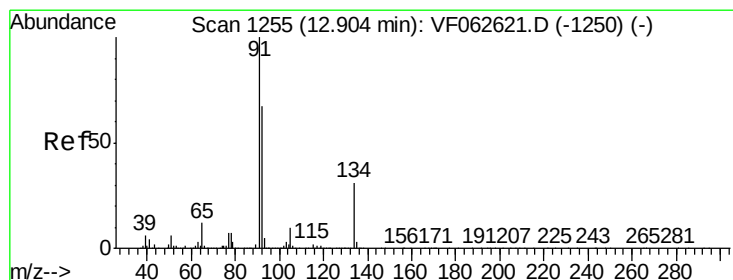
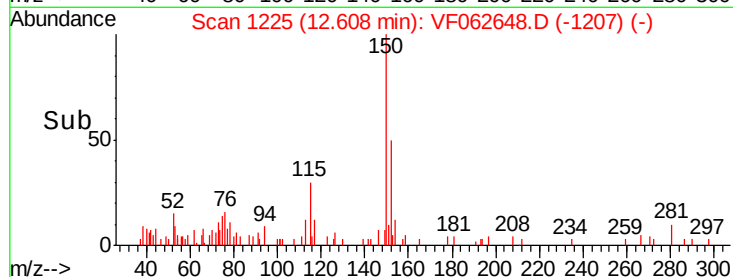
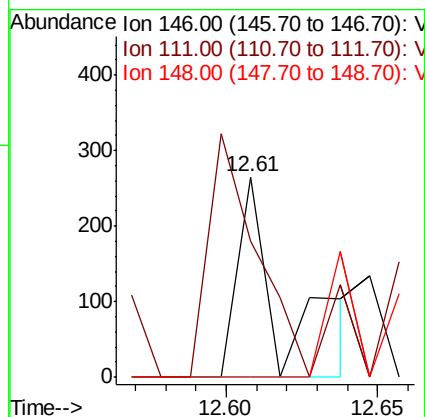
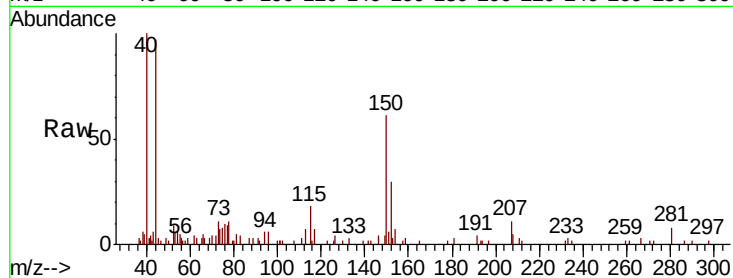
Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

ClientSampled :

Tot Ion:	146	Resp:	280
Ion	Ratio	Lower	Upper
146	100		
111	67.9	19.4	58.2#
148	0.0	33.2	99.6#



#89

n-Butylbenzene

Concen: 1.521 ug/l

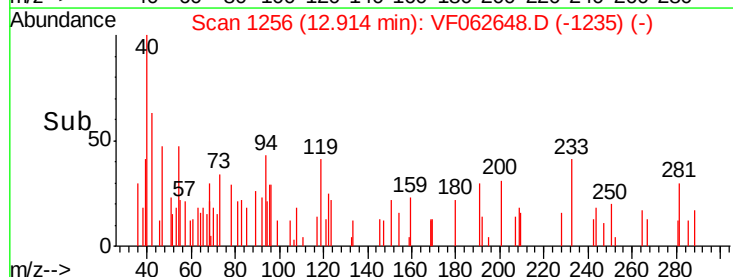
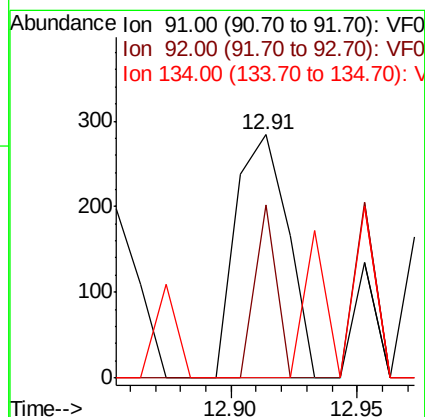
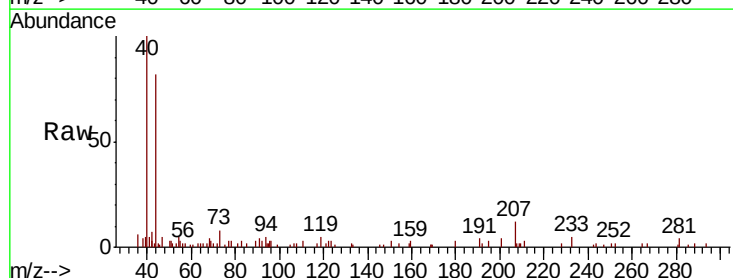
RT: 12.91 min Scan# 1256

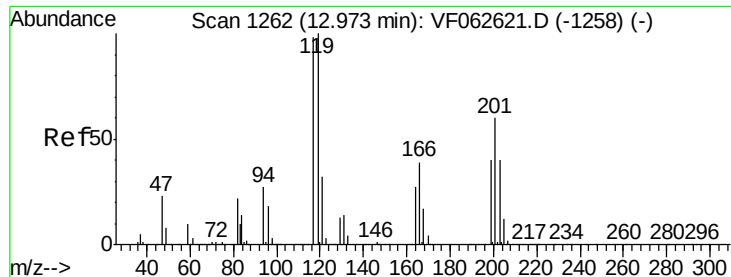
Delta R.T. 0.01 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Tgt Ion:	91	Resp:	407
Ion	Ratio	Lower	Upper
91	100		
92	71.1	33.3	99.8
134	0.0	15.4	46.4#





#90

Hexachloroethane

Concen: 3.211 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

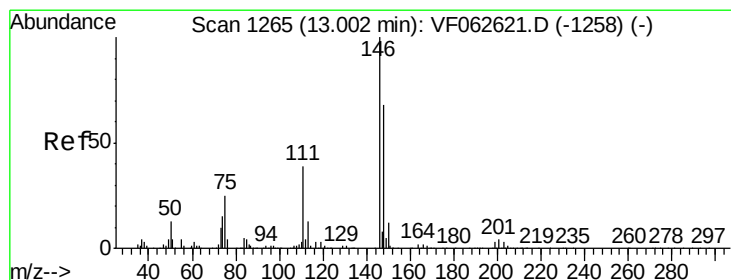
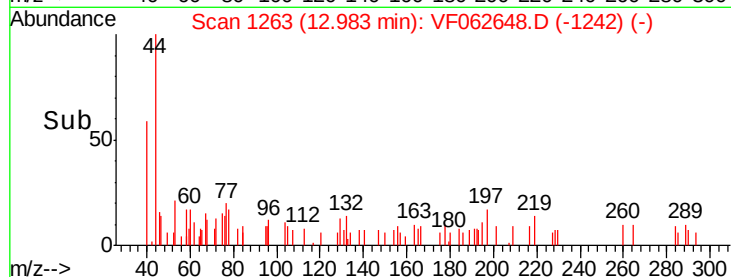
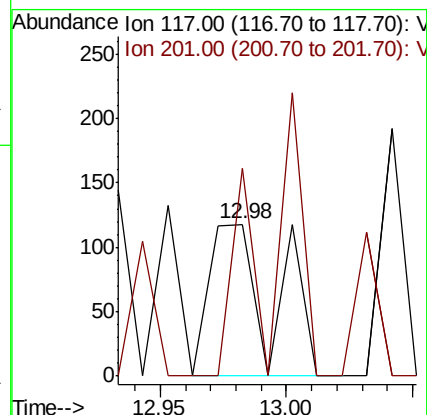
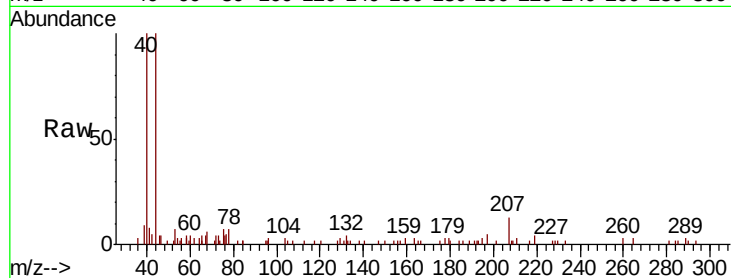
ClientSampled :

Tot Ion:117 Resp: 209

Ion Ratio Lower Upper

117 100

201 136.4 30.7 92.1#



#91

1,2-Dichlorobenzene

Concen: 1.725 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

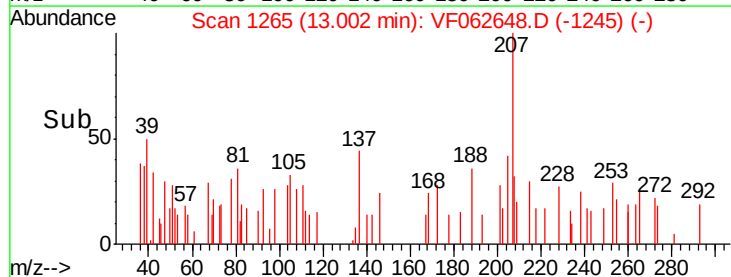
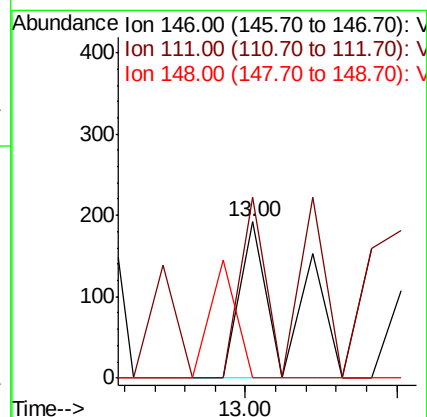
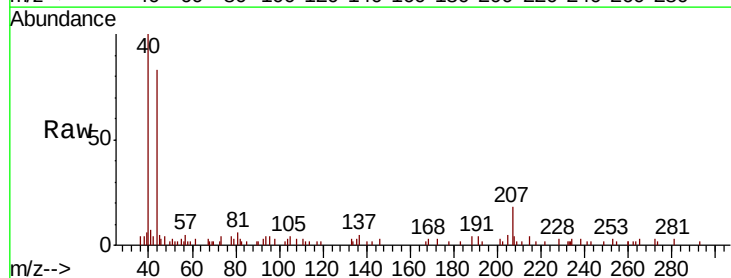
Tgt Ion:146 Resp: 204

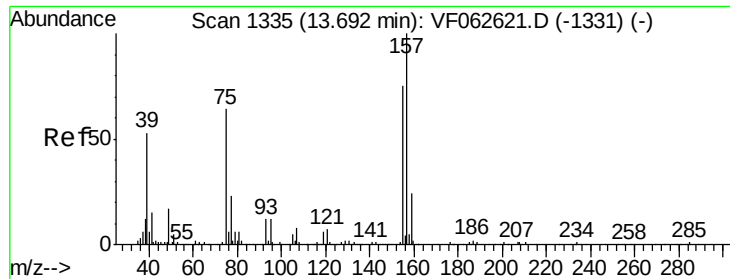
Ion Ratio Lower Upper

146 100

111 116.1 19.8 59.3#

148 0.0 34.1 102.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 18.080 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

ClientSampled :

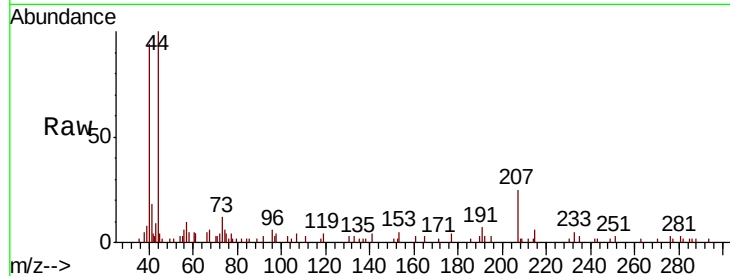
Tot Ion: 75 Resp: 130

Ion Ratio Lower Upper

75 100

155 0.0 58.1 174.3#

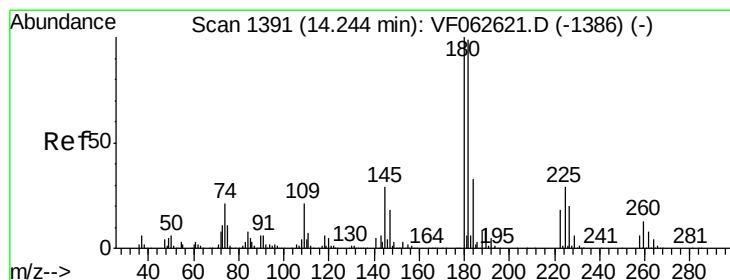
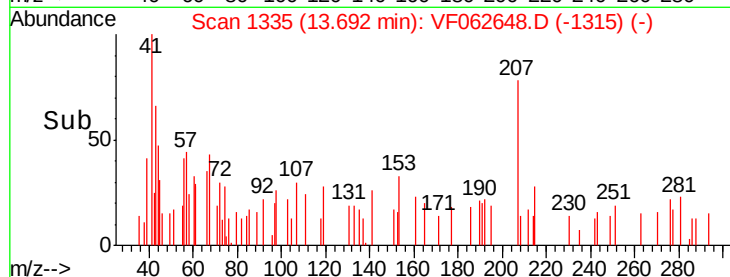
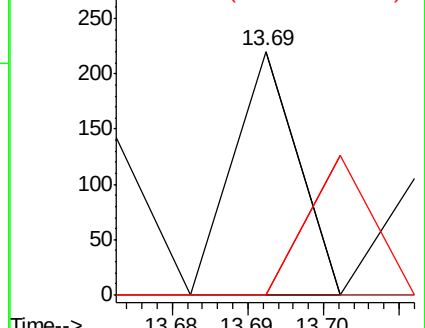
157 0.0 77.8 233.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#93

1,2,4-Trichlorobenzene

Concen: 1.867 ug/l

RT: 14.22 min Scan# 1389

Delta R.T. -0.02 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

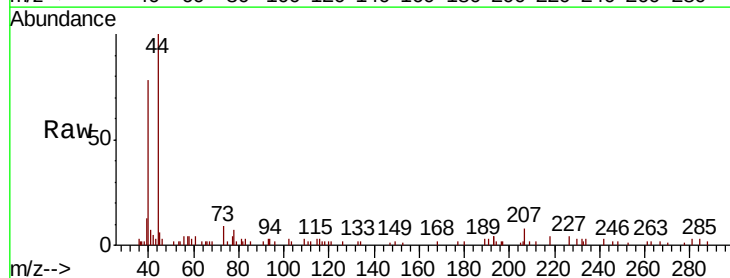
Tgt Ion:180 Resp: 158

Ion Ratio Lower Upper

180 100

182 0.0 49.7 149.1#

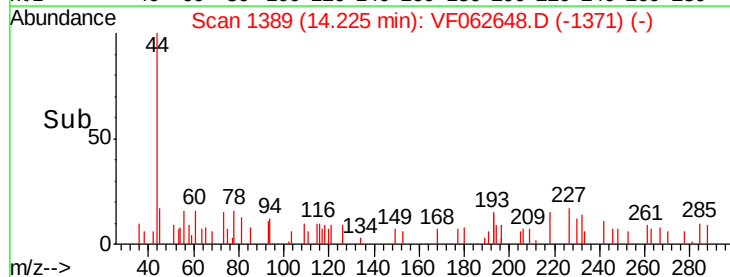
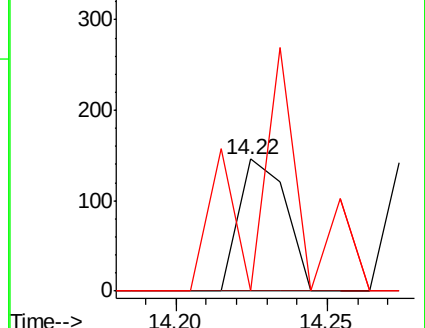
145 0.0 14.6 44.0#

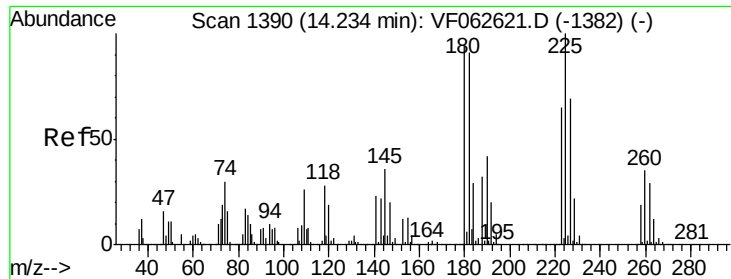


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#94

Hexachlorobutadiene

Concen: 2.709 ug/l

RT: 14.32 min Scan# 1399

Delta R.T. 0.09 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

ClientSampleId :

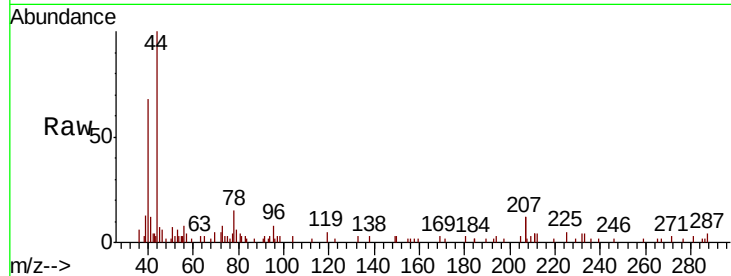
Tot Ion:225 Resp: 160

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.4#

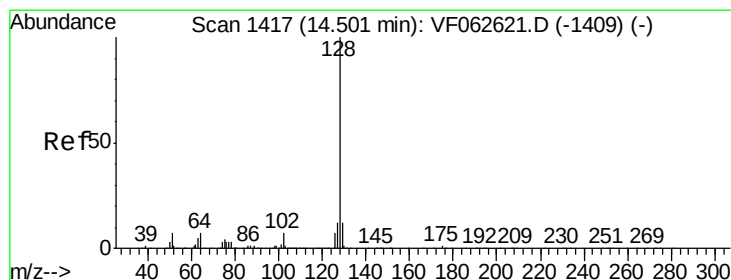
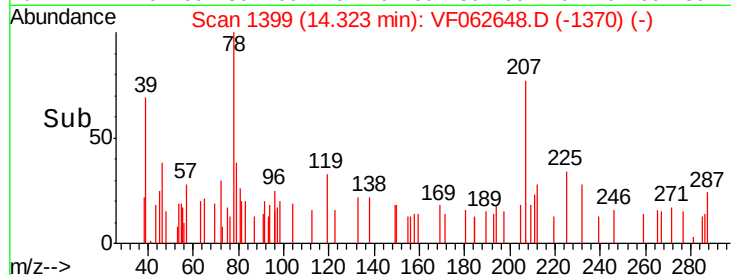
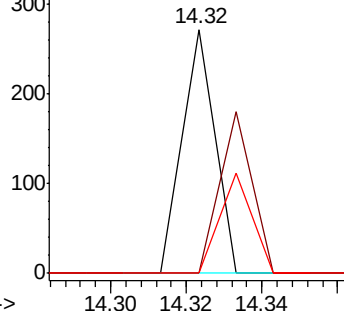
227 0.0 34.5 103.5#



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#95

Naphthalene

Concen: 1.015 ug/l

RT: 14.54 min Scan# 1421

Delta R.T. 0.04 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

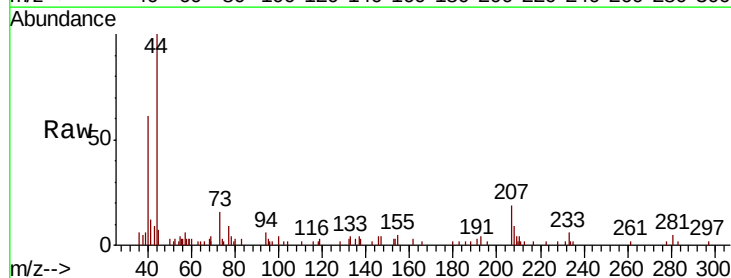
Tgt Ion:128 Resp: 156

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

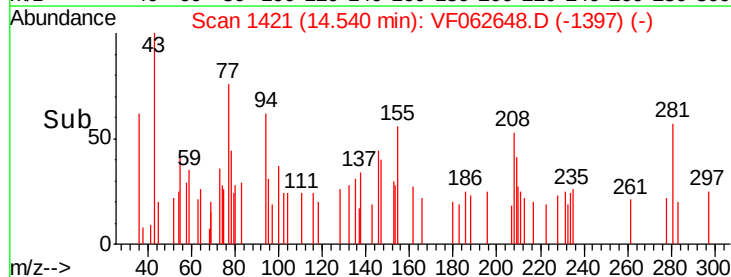
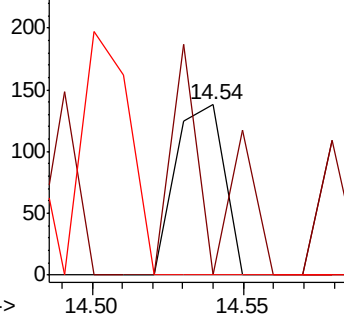
129 0.0 9.3 13.9#

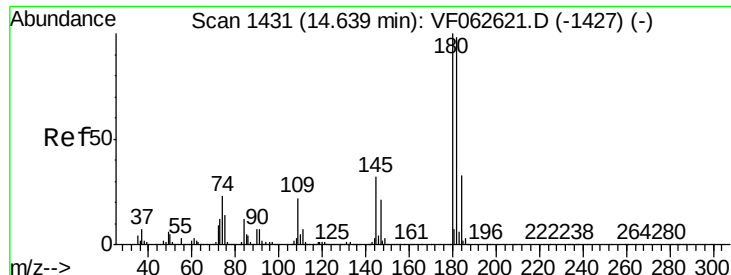


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 1.260 ug/l

RT: 14.72 min Scan# 1439

Delta R.T. 0.08 min

Lab File: VF062648.D

Acq: 17 May 2019 19:47

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	180	Resp:	101
Ion Ratio	Lower	Upper	
180	100		
182	0.0	48.9	146.7#
145	60.2	16.1	48.2#

