

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042519\
 Data File : VF062298.D
 Acq On : 25 Apr 2019 18:04
 Operator : FY/SY
 Sample : K2564-02RE
 Misc : 4.96g/5mL/MSVOA F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 C-2_042419RE

Quant Time: Apr 26 01:10:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	1776	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.75	114	1909	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.98	117	65	50.00	ug/l	0.06
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.62

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.07	65	225	15.64	ug/l	0.03
Spiked Amount	50.000		Recovery	=	31.28%	
35) Dibromofluoromethane	4.31	113	578	40.84	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	81.68%	
50) Toluene-d8	7.71	98	60	1.74	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	3.48%	
62) 4-Bromofluorobenzene	11.43	95	130	9.12	ug/l	-0.07
Spiked Amount	50.000		Recovery	=	18.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	170	8.055	ug/l #	40
3) Chloromethane	1.17	50	192	10.799	ug/l #	44
4) Vinyl Chloride	1.18	62	67	3.979	ug/l #	44
5) Bromomethane	1.37	94	231	20.200	ug/l #	6
6) Chloroethane	1.46	64	70	9.483	ug/l #	1
7) Trichlorofluoromethane	1.38	101	92	3.438	ug/l #	15
8) Diethyl Ether	1.58	74	69	14.234	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.81	101	148	8.813	ug/l #	19
10) Methyl Iodide	2.04	142	73	2.487	ug/l #	1
11) Tert butyl alcohol	2.64	59	75	86.185	ug/l #	1
12) 1,1-Dichloroethene	1.84	96	211	14.082	ug/l #	1
13) Acrolein	2.12	56	332	401.750	ug/l	95
14) Allyl chloride	2.17	41	465	28.517	ug/l #	1
15) Acrylonitrile	3.10	53	193	80.076	ug/l #	61
16) Acetone	2.34	43	389	120.773	ug/l #	56
17) Carbon Disulfide	1.97	76	111	2.815	ug/l #	69
18) Methyl Acetate	2.47	43	1107	193.415	ug/l #	59
19) Methyl tert-butyl Ether	2.53	73	127	4.446	ug/l #	1
20) Methylene Chloride	2.22	84	86	1.093	ug/l #	41
21) trans-1,2-Dichloroethene	2.41	96	76	5.133	ug/l #	1
22) Diisopropyl ether	2.95	45	88	2.005	ug/l #	43
23) Vinyl Acetate	3.35	43	1343	68.992	ug/l #	78
24) 1,1-Dichloroethane	2.98	63	60	2.395	ug/l #	89
25) 2-Butanone	4.48	43	279	54.629	ug/l #	57
26) 2,2-Dichloropropane	3.72	77	179	13.757	ug/l #	61
27) cis-1,2-Dichloroethene	3.46	96	101	5.386	ug/l	61
28) Bromochloromethane	3.89	49	72	6.819	ug/l #	2
29) Tetrahydrofuran	4.28	42	164	73.082	ug/l #	36
30) Chloroform	4.07	83	85	2.702	ug/l #	1
31) Cyclohexane	3.89	56	262	10.990	ug/l #	3
32) 1,1,1-Trichloroethane	4.30	97	167	6.761	ug/l #	30
36) 1,1-Dichloropropene	4.45	75	70	3.975	ug/l #	1
37) Ethyl Acetate	4.29	43	321	43.323	ug/l #	2
38) Carbon Tetrachloride	4.14	117	78	4.356	ug/l #	12

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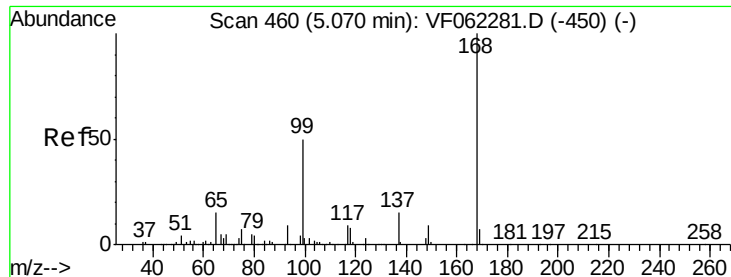
Instrument :
 MSVOA_F
 ClientSampleId :
 C-2_042419RE

Quant Time: Apr 26 01:10:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.52	83	61	2.967	ug/l #	1
40) Benzene	4.84	78	60	1.410	ug/l #	1
41) Methacrylonitrile	4.89	41	441	107.136	ug/l #	1
42) 1,2-Dichloroethane	5.01	62	60	4.451	ug/l #	76
43) Isopropyl Acetate	7.04	43	1094	144.487	ug/l #	46
44) Trichloroethene	5.62	130	64	4.445	ug/l	3
45) 1,2-Dichloropropane	6.29	63	176	18.345	ug/l #	45
46) Dibromomethane	6.22	93	85	12.270	ug/l #	1
47) Bromodichloromethane	6.53	83	89	5.465	ug/l #	23
48) Methyl methacrylate	6.80	41	1127	207.611	ug/l #	80
51) 4-Methyl-2-Pentanone	8.34	43	537	91.983	ug/l #	63
52) Toluene	7.90	92	65	2.647	ug/l	80
53) t-1,3-Dichloropropene	8.33	75	68	5.678	ug/l #	1
54) cis-1,3-Dichloropropene	7.41	75	127	8.278	ug/l #	1
55) 1,1,2-Trichloroethane	8.70	97	61	8.747	ug/l #	14
56) Ethyl methacrylate	8.72	69	182	23.756	ug/l #	1
57) 1,3-Dichloropropane	8.97	76	134	12.221	ug/l #	41
58) 2-Chloroethyl Vinyl ether	7.55	63	66	28.311	ug/l #	44
59) 2-Hexanone	9.58	43	242	56.950	ug/l	69
60) Dibromochloromethane	8.73	129	104	9.189	ug/l #	11
61) 1,2-Dibromoethane	8.95	107	67	8.301	ug/l	94
64) Tetrachloroethene	8.30	164	60	110.360	ug/l #	9
67) Ethyl Benzene	10.07	91	253	122.518	ug/l #	43
68) m/p-Xylenes	10.25	106	62	80.644	ug/l #	39
69) o-Xylene	10.86	106	73	84.989	ug/l	94
70) Styrene	10.78	104	78	62.818	ug/l #	28

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

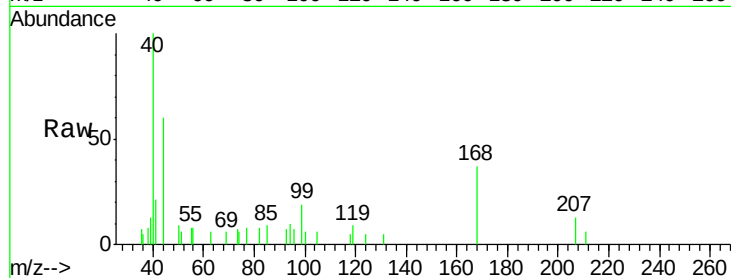
C-2_042419RE

Tot Ion:168 Resp: 1776

Ion Ratio Lower Upper

168 100

99 52.1 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.04

800

600

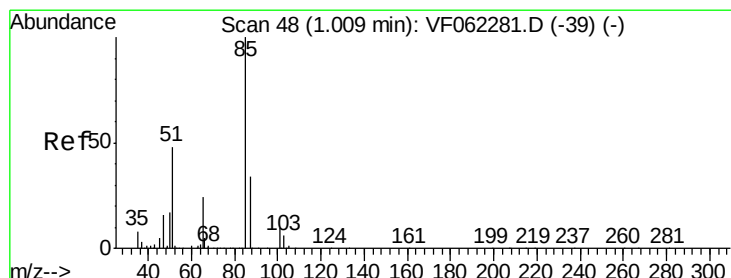
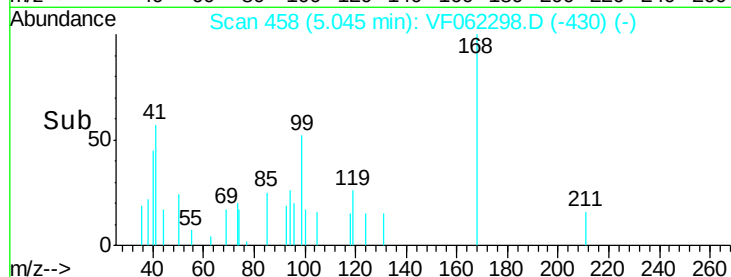
400

200

0

5.00 5.05 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 8.055 ug/l

RT: 0.98 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF062298.D

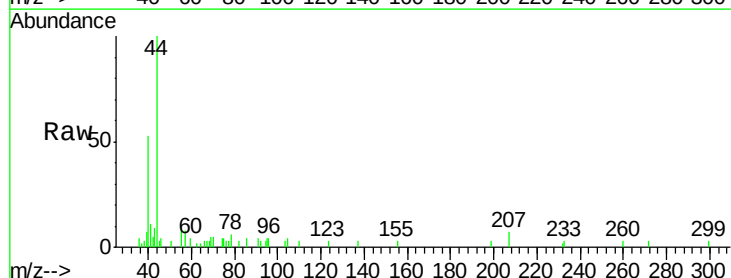
Acq: 25 Apr 2019 18:04

Tgt Ion: 85 Resp: 170

Ion Ratio Lower Upper

85 100

87 0.0 17.1 51.3#



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

0.98

150

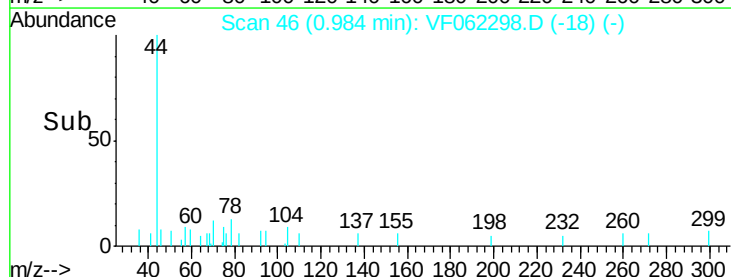
100

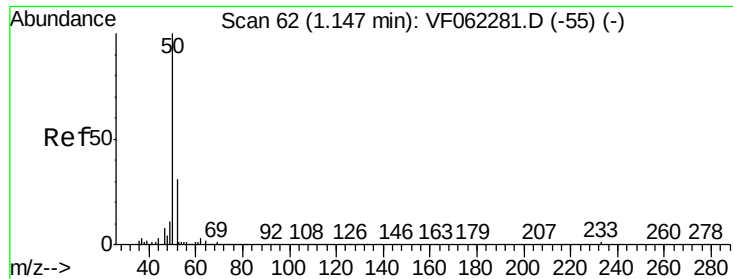
50

0

0.94 0.96 0.98 1.00 1.02

Time-->





#3

Chloromethane

Concen: 10.799 ug/l

RT: 1.17 min Scan# 65

Delta R.T. 0.02 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

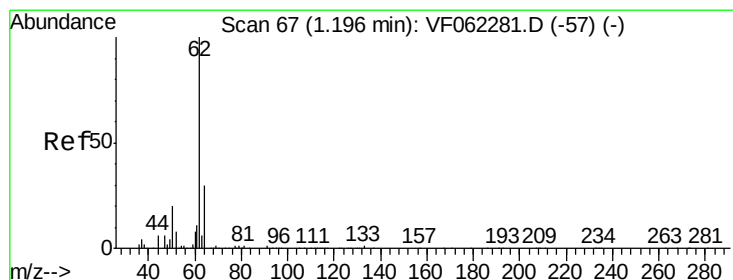
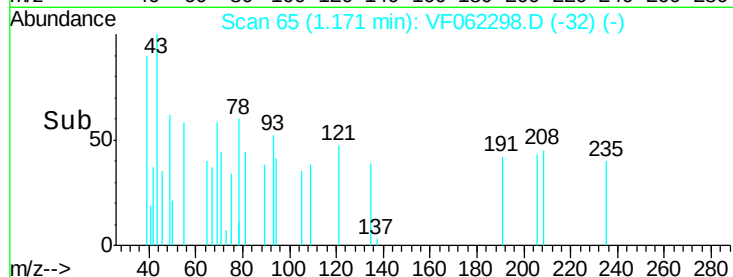
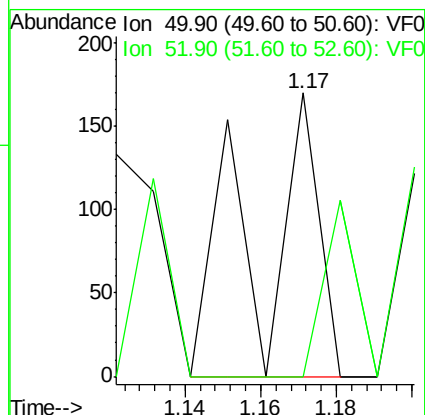
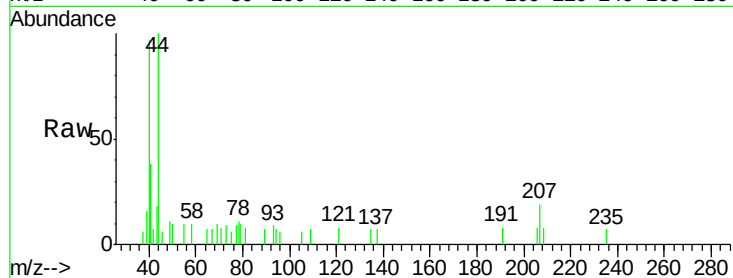
C-2_042419RE

Tot Ion: 50 Resp: 192

Ion Ratio Lower Upper

50 100

52 0.0 24.2 36.4#



#4

Vinyl Chloride

Concen: 3.979 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062298.D

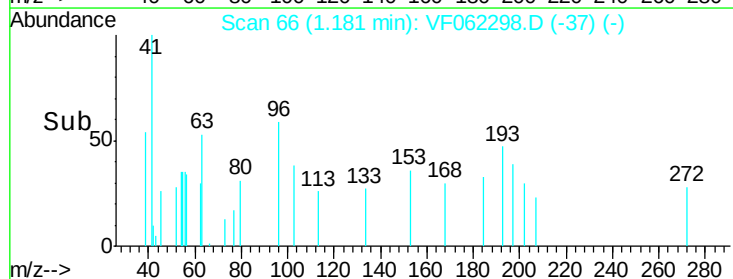
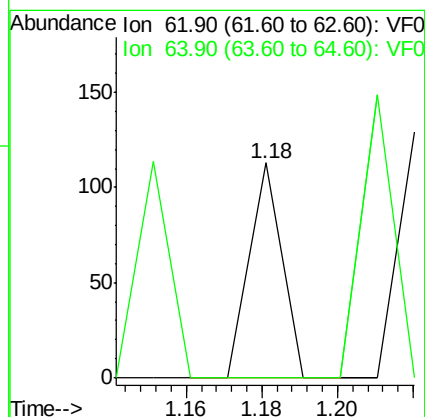
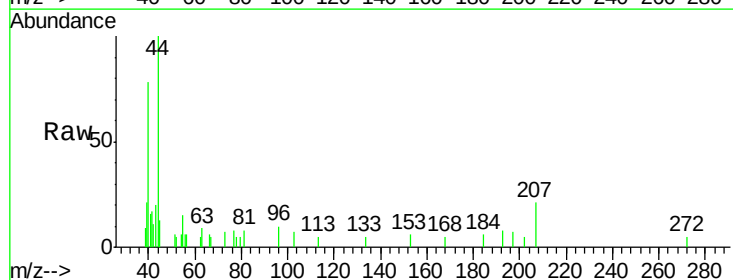
Acq: 25 Apr 2019 18:04

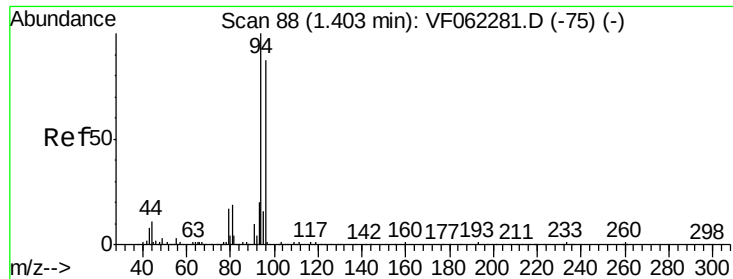
Tgt Ion: 62 Resp: 67

Ion Ratio Lower Upper

62 100

64 0.0 24.3 36.5#





#5

Bromomethane

Concen: 20.200 ug/l

RT: 1.37 min Scan# 85

Delta R.T. -0.03 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

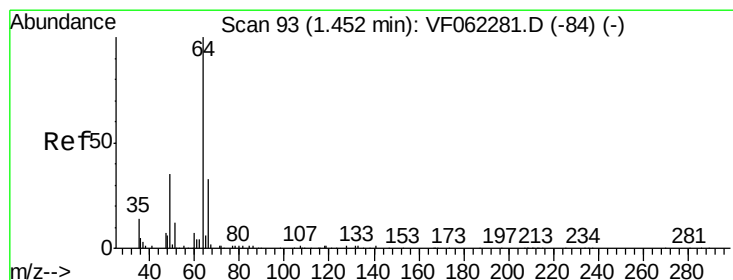
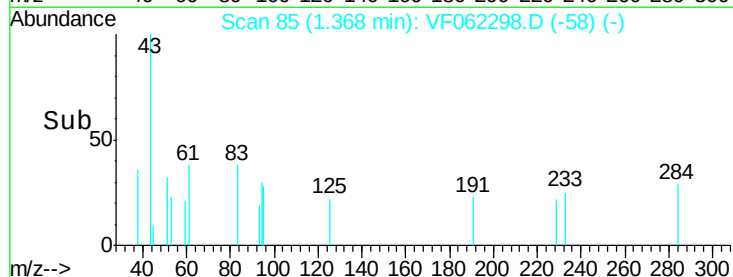
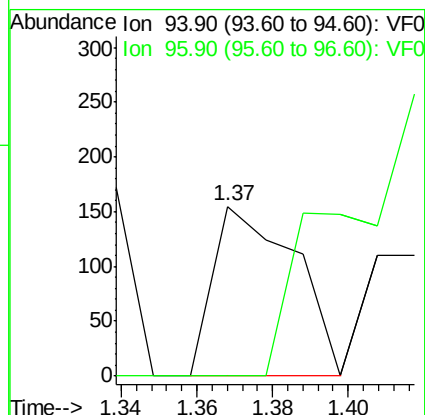
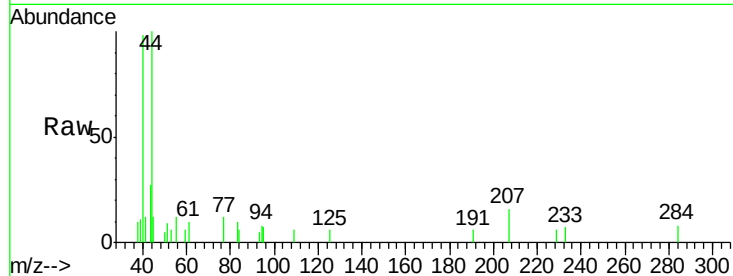
C-2_042419RE

Tot Ion: 94 Resp: 231

Ion Ratio Lower Upper

94 100

96 0.0 69.5 104.3#



#6

Chloroethane

Concen: 9.483 ug/l

RT: 1.46 min Scan# 94

Delta R.T. 0.00 min

Lab File: VF062298.D

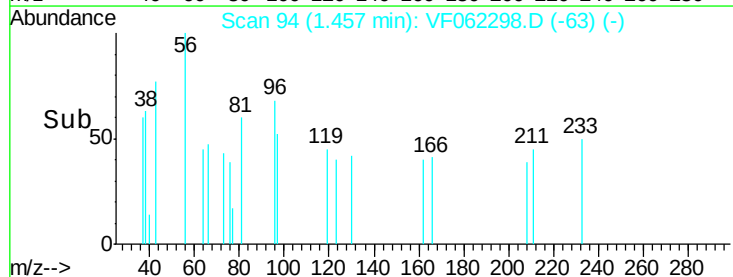
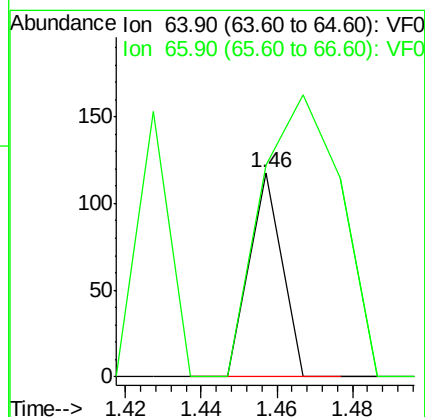
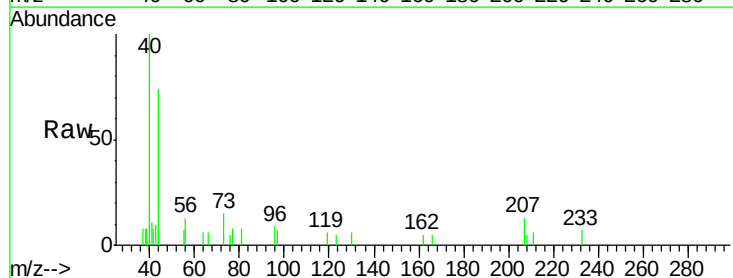
Acq: 25 Apr 2019 18:04

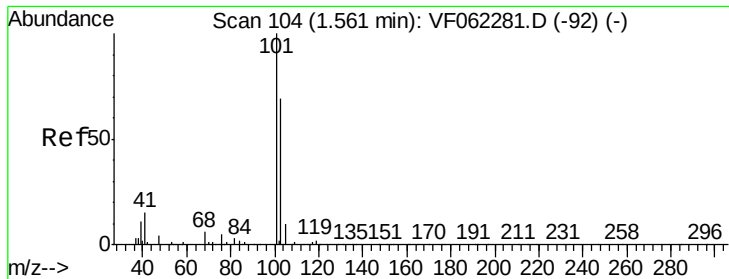
Tgt Ion: 64 Resp: 70

Ion Ratio Lower Upper

64 100

66 103.4 26.0 39.0#





#7

Trichlorofluoromethane

Concen: 3.438 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.18 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

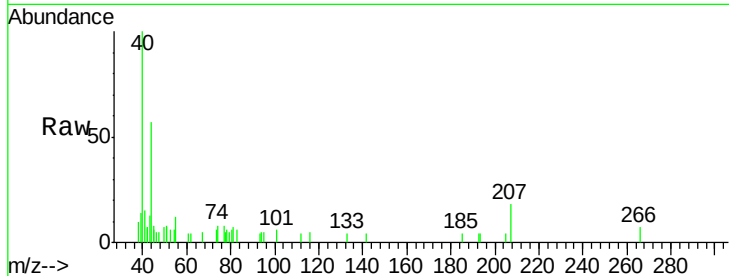
C-2_042419RE

Tot Ion:101 Resp: 92

Ion Ratio Lower Upper

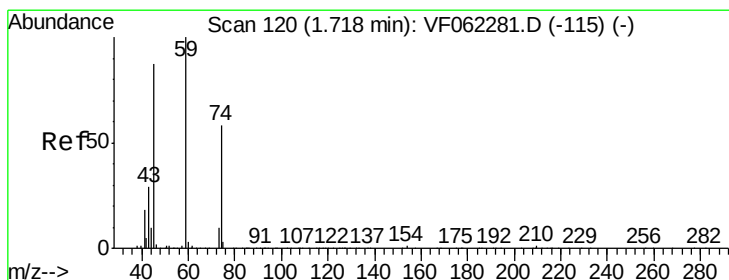
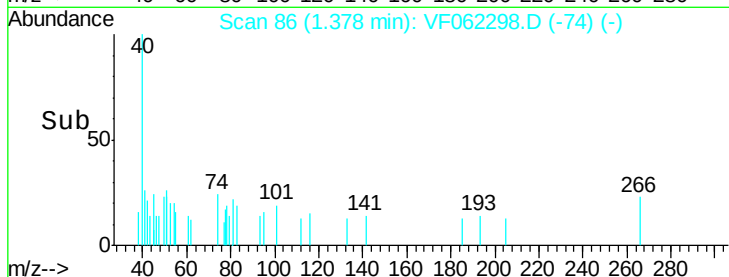
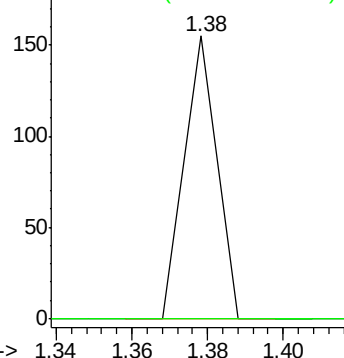
101 100

103 0.0 55.0 82.6#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 14.234 ug/l

RT: 1.58 min Scan# 106

Delta R.T. -0.14 min

Lab File: VF062298.D

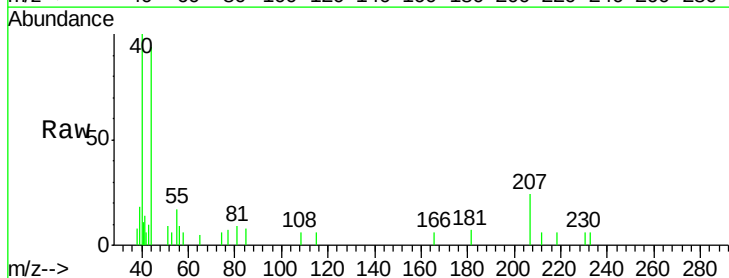
Acq: 25 Apr 2019 18:04

Tgt Ion: 74 Resp: 69

Ion Ratio Lower Upper

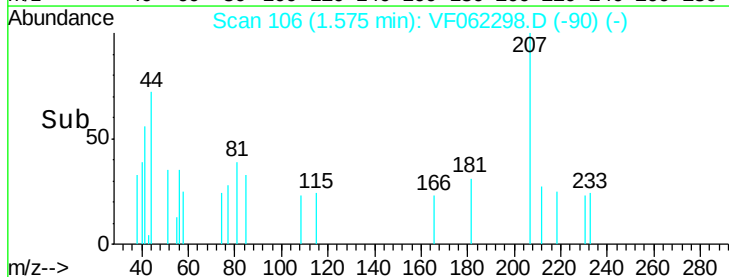
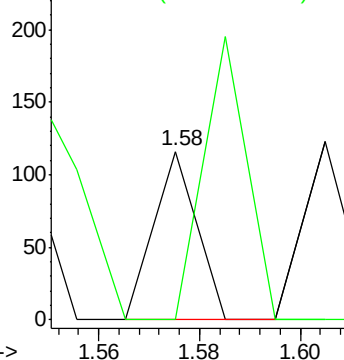
74 100

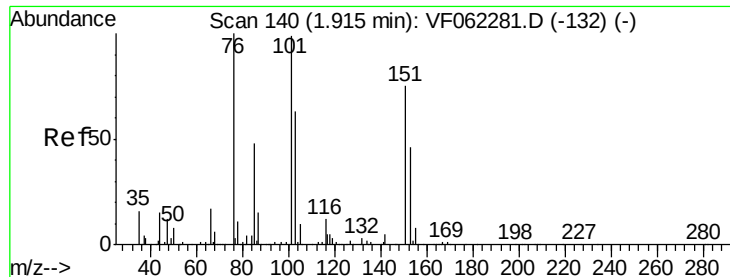
45 166.7 74.0 222.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.813 ug/l

RT: 1.81 min Scan# 130

Delta R.T. -0.10 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

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C-2_042419RE

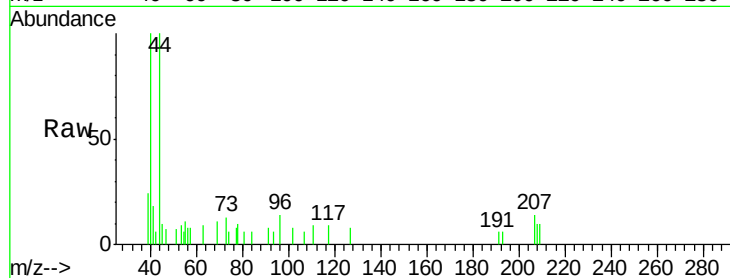
Tot Ion:101 Resp: 148

Ion Ratio Lower Upper

101 100

85 0.0 36.5 54.7#

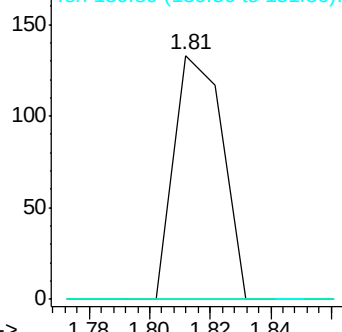
151 0.0 59.2 88.8#



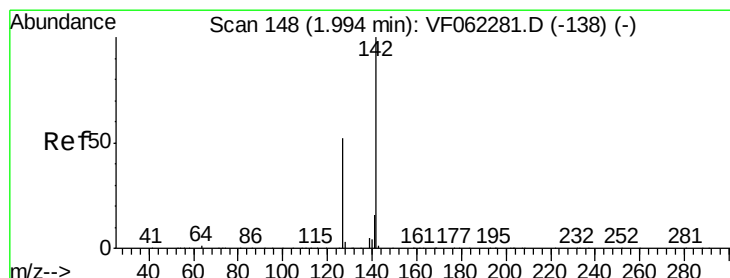
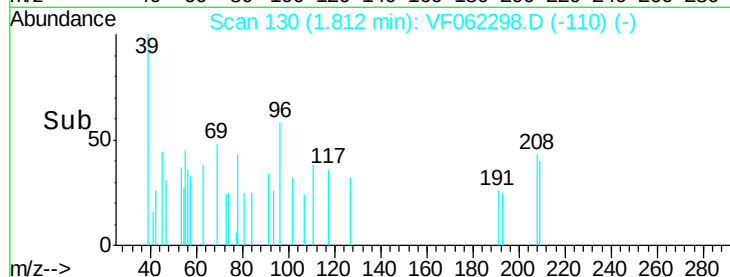
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



Time-->



#10

Methyl Iodide

Concen: 2.487 ug/l

RT: 2.04 min Scan# 153

Delta R.T. 0.04 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

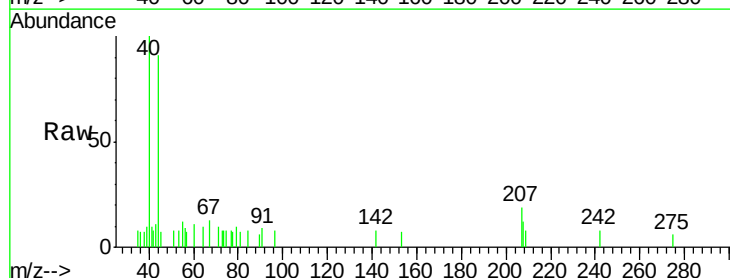
Tgt Ion:142 Resp: 73

Ion Ratio Lower Upper

142 100

127 0.0 43.0 64.4#

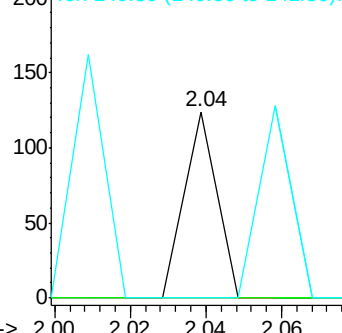
141 104.1 12.3 18.5#



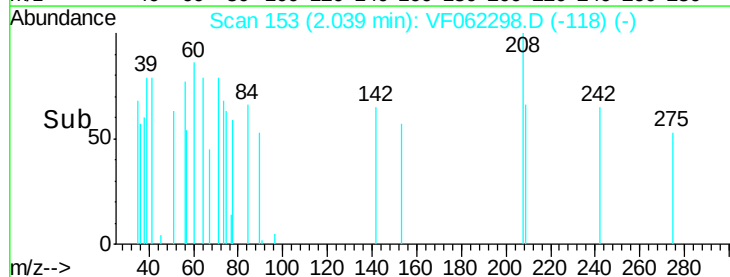
Abundance Ion 141.80 (141.50 to 142.50): V

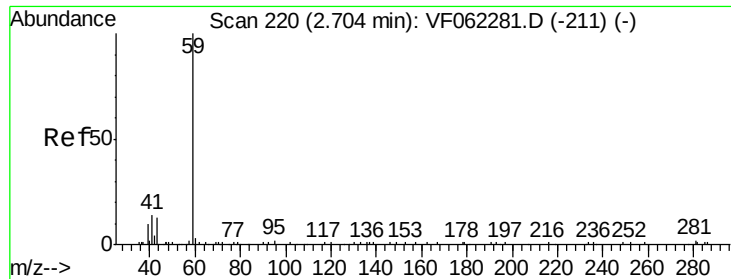
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



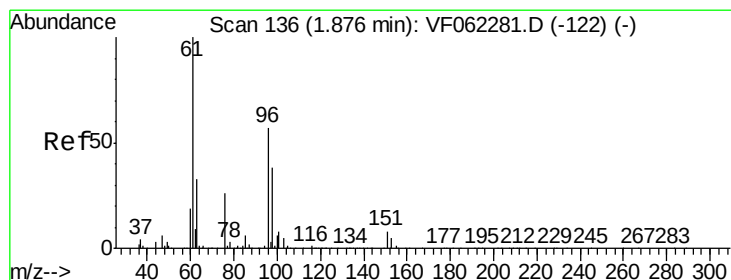
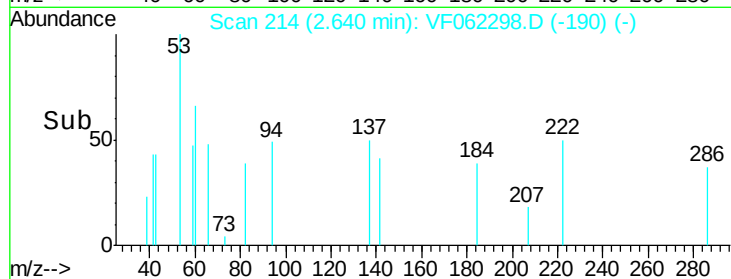
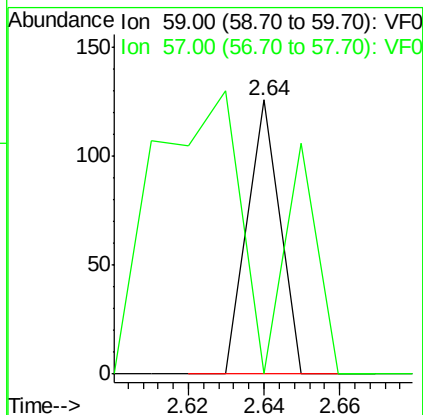
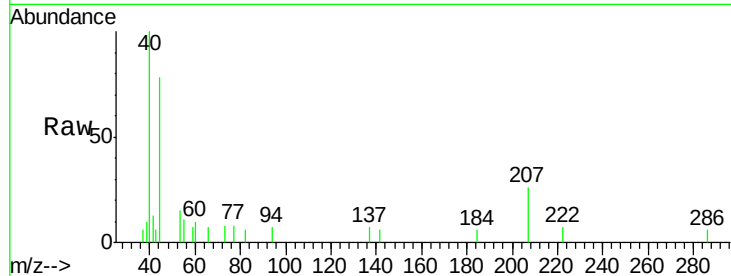


#11

Tert butyl alcohol
 Concen: 86.185 ug/l
 RT: 2.64 min Scan# 214
 Delta R.T. -0.06 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

Instrument :
 MSVOA_F
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 C-2_042419RE

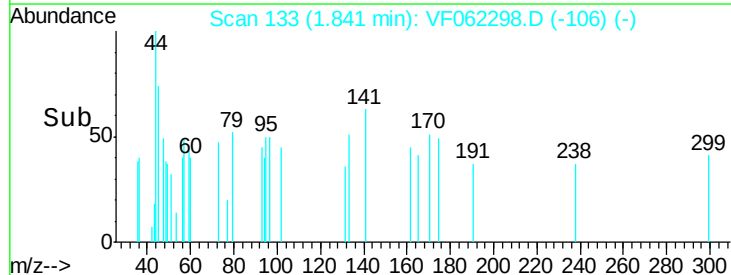
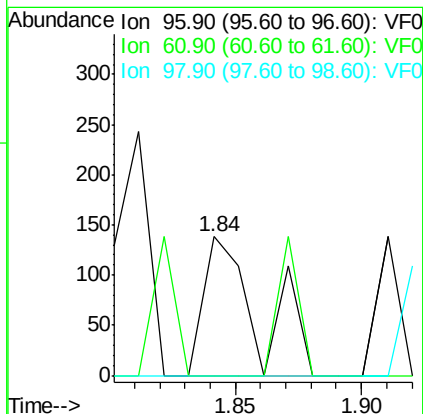
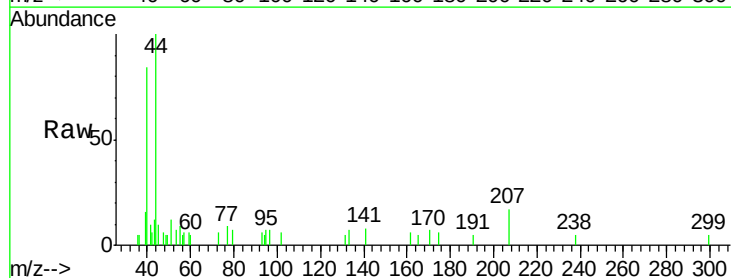
Tot Ion: 59 Resp: 75
 Ion Ratio Lower Upper
 59 100
 57 186.7 8.8 13.2#

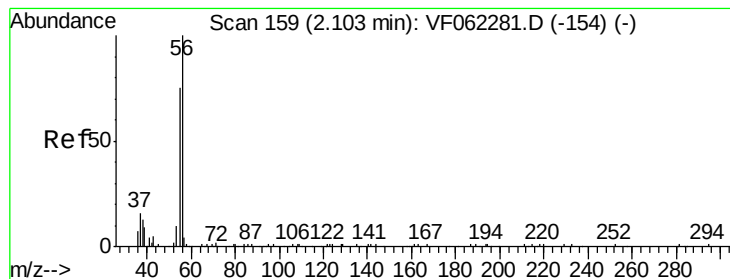


#12

1,1-Dichloroethene
 Concen: 14.082 ug/l
 RT: 1.84 min Scan# 133
 Delta R.T. -0.03 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

Tgt Ion: 96 Resp: 211
 Ion Ratio Lower Upper
 96 100
 61 0.0 141.1 211.7#
 98 0.0 53.4 80.0#





#13

Acrolein

Concen: 401.750 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.02 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

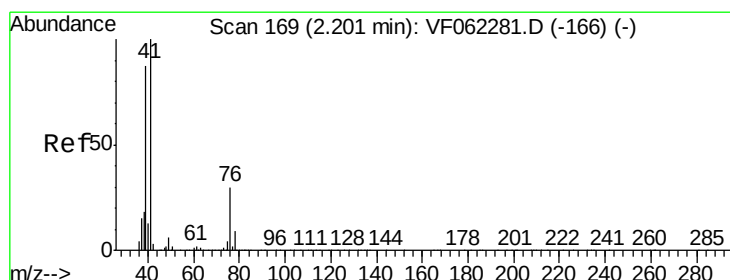
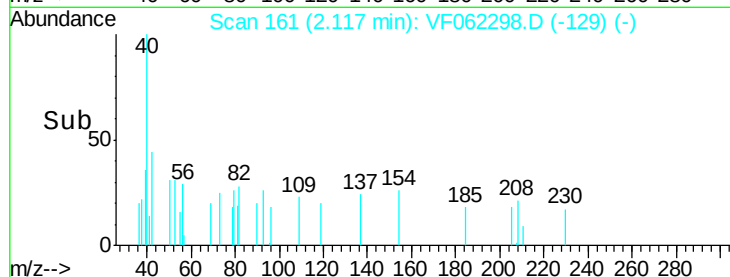
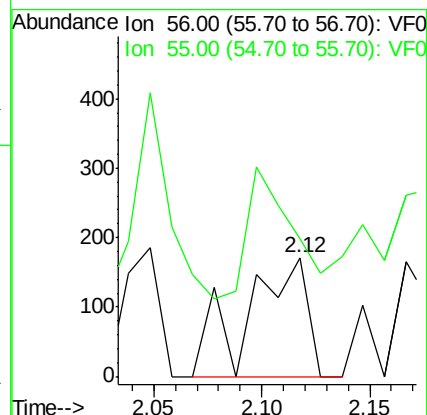
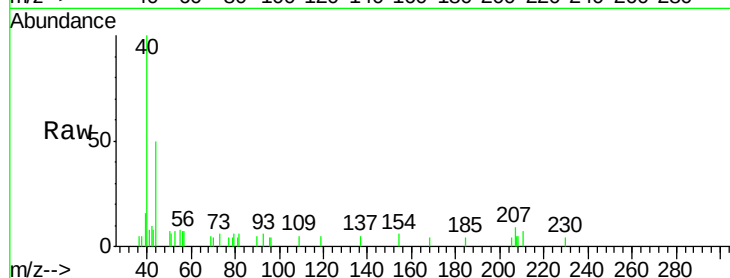
C-2_042419RE

Tot Ion: 56 Resp: 332

Ion Ratio Lower Upper

56 100

55 82.5 62.3 93.5



#14

Allyl chloride

Concen: 28.517 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.03 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

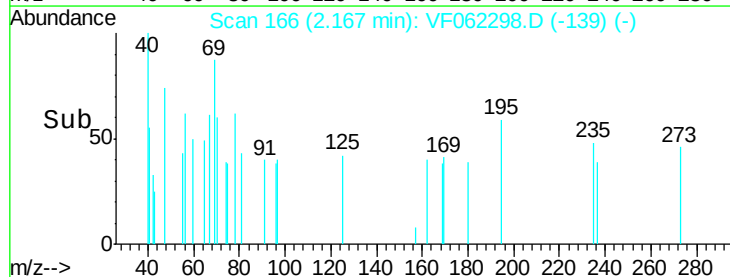
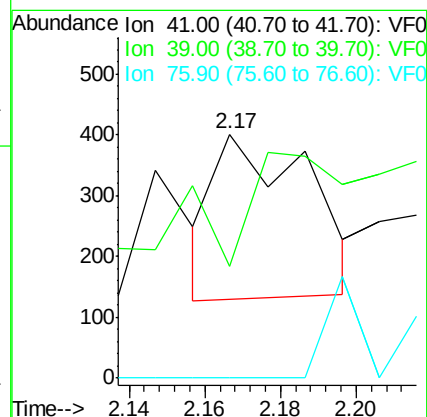
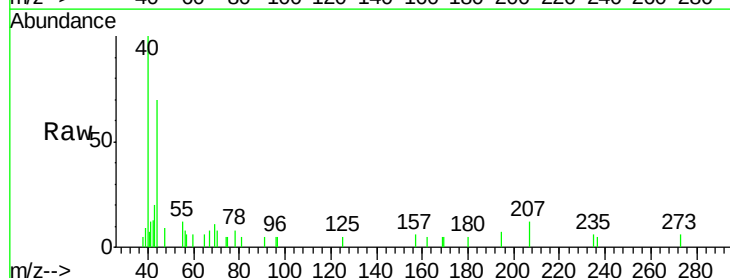
Tgt Ion: 41 Resp: 465

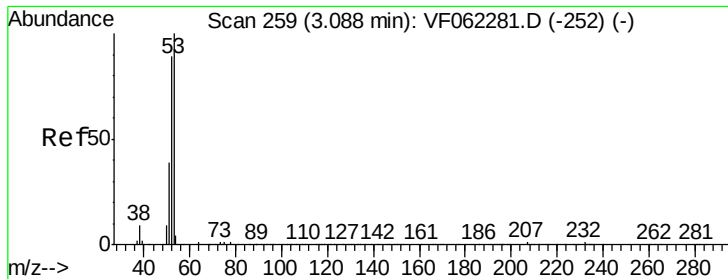
Ion Ratio Lower Upper

41 100

39 353.5 50.3 75.5#

76 0.0 14.8 22.2#





#15

Acrylonitrile

Concen: 80.076 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

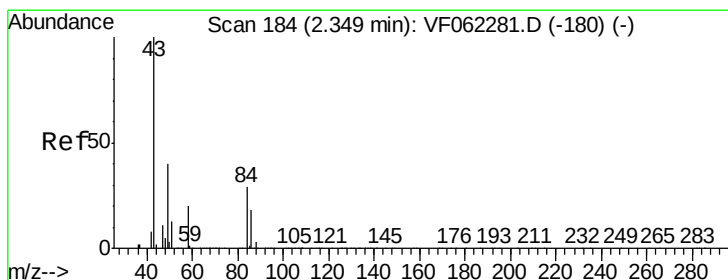
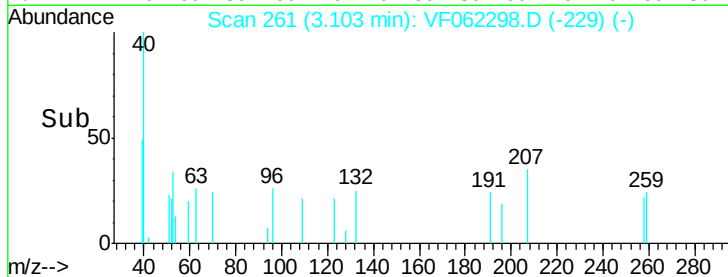
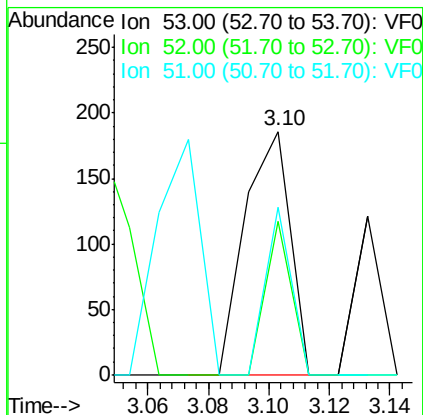
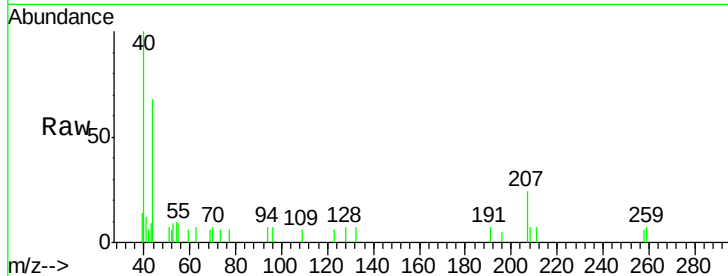
MSVOA_F

ClientSampleId :

C-2_042419RE

Tot Ion: 53 Resp: 193

Ion	Ratio	Lower	Upper
53	100		
52	35.8	70.6	105.8#
51	39.4	32.6	48.8



#16

Acetone

Concen: 120.773 ug/l

RT: 2.34 min Scan# 184

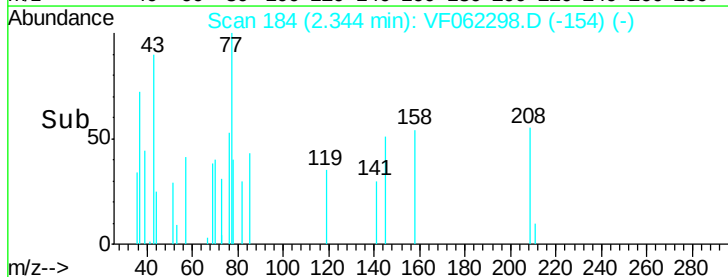
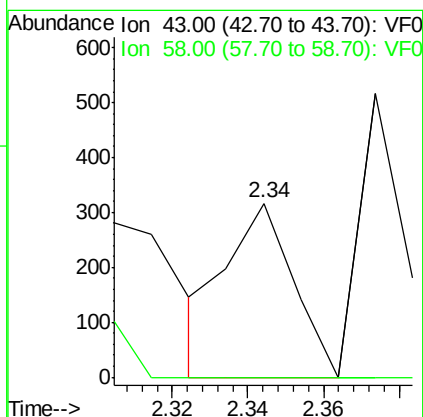
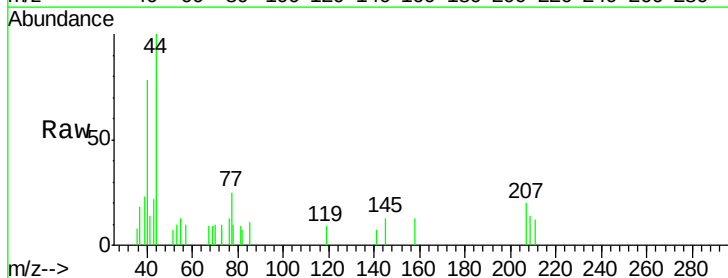
Delta R.T. -0.01 min

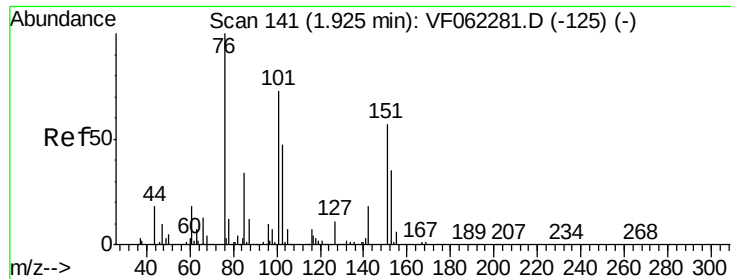
Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Tgt Ion: 43 Resp: 389

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	24.6#





#17

Carbon Disulfide

Concen: 2.815 ug/l

RT: 1.97 min Scan# 146

Delta R.T. 0.04 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

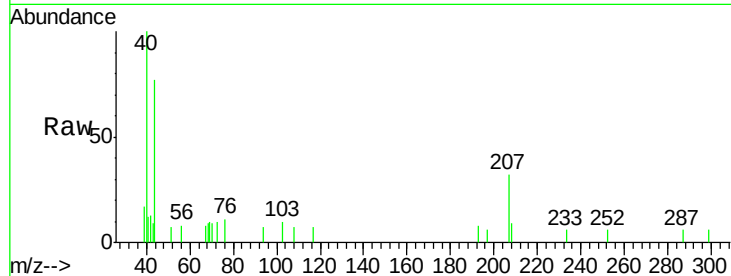
C-2_042419RE

Tot Ion: 76 Resp: 111

Ion Ratio Lower Upper

76 100

78 0.0 9.8 14.8#



Abundance Ion 75.90 (75.60 to 76.60): VF0

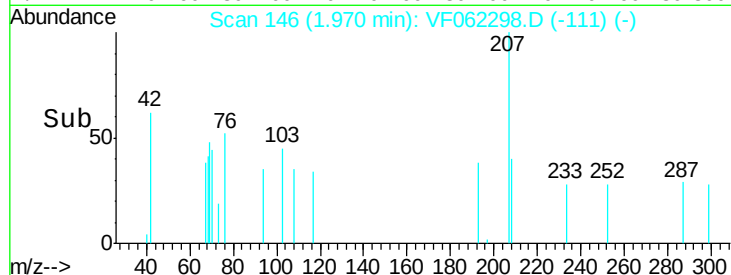
Ion 77.90 (77.60 to 78.60): VF0

1.97

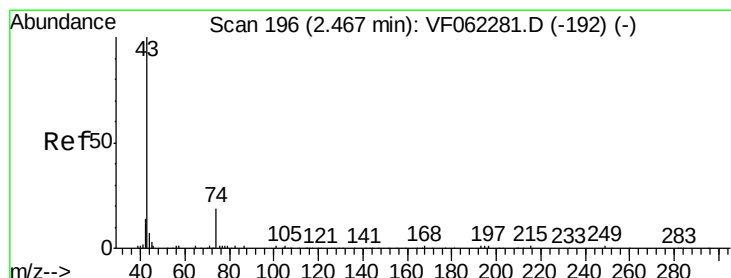
1.98

1.99

2.00



Time-->



#18

Methyl Acetate

Concen: 193.415 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF062298.D

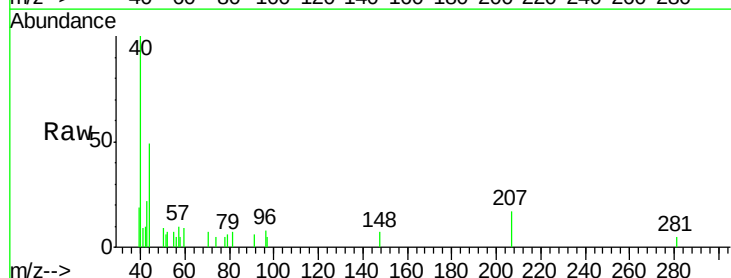
Acq: 25 Apr 2019 18:04

Tgt Ion: 43 Resp: 1107

Ion Ratio Lower Upper

43 100

74 0.0 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

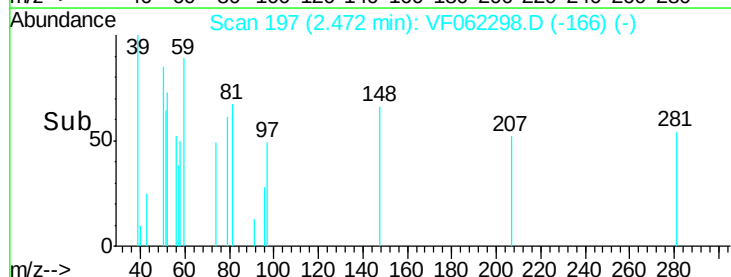
Ion 74.00 (73.70 to 74.70): VF0

2.47

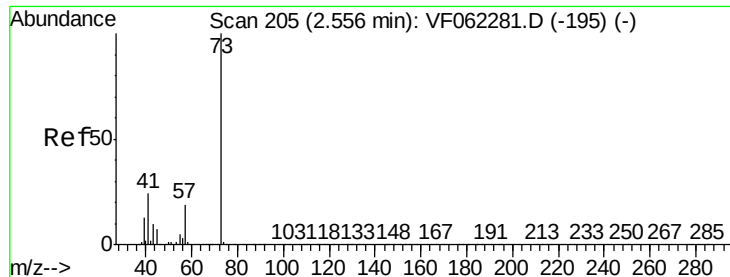
2.48

2.49

2.50



Time-->

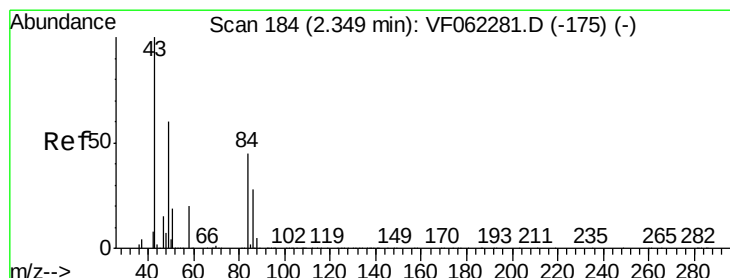
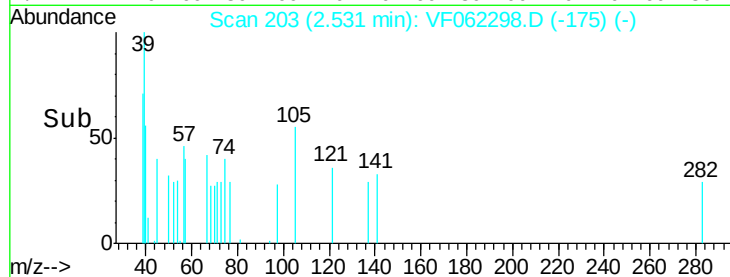
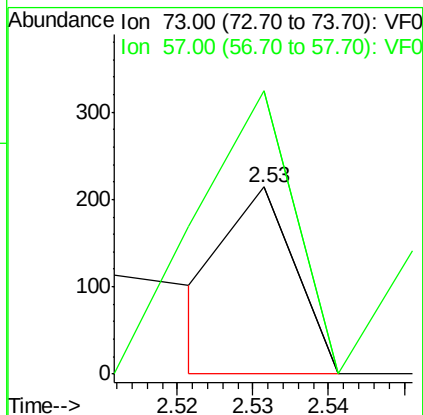
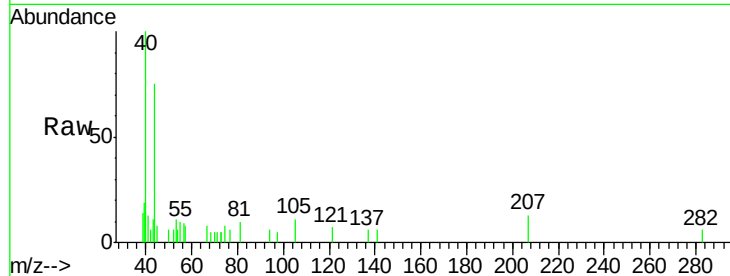


#19

Methyl tert-butyl Ether
 Concen: 4.446 ug/l
 RT: 2.53 min Scan# 203
 Delta R.T. -0.02 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

Instrument :
 MSVOA_F
 ClientSampleId :
 C-2_042419RE

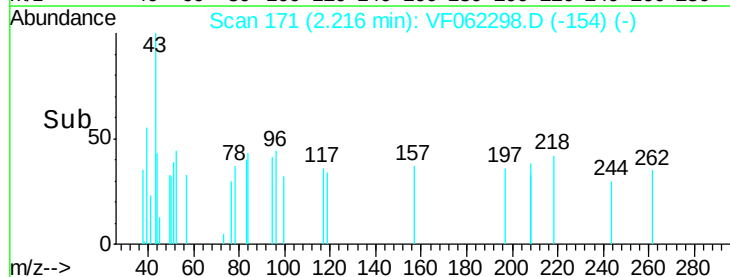
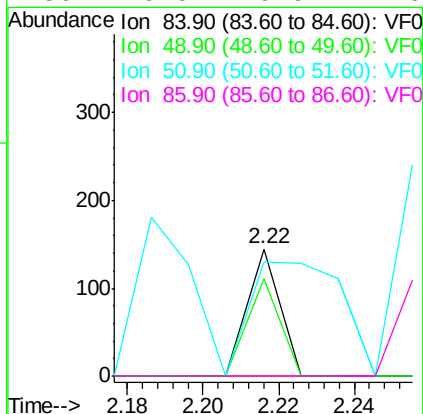
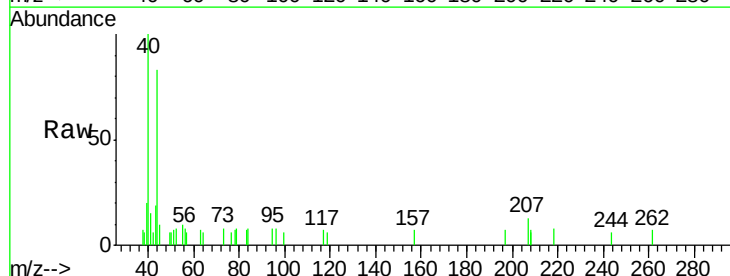
Tot Ion: 73 Resp: 127
 Ion Ratio Lower Upper
 73 100
 57 151.4 15.5 23.3#

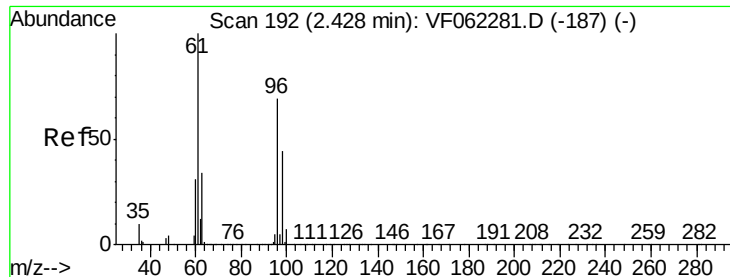


#20

Methylene Chloride
 Concen: 1.093 ug/l
 RT: 2.22 min Scan# 171
 Delta R.T. -0.13 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

Tgt Ion: 84 Resp: 86
 Ion Ratio Lower Upper
 84 100
 49 76.6 112.1 168.1#
 51 13.1 35.9 53.9#
 86 0.0 49.9 74.9#





#21

trans-1,2-Dichloroethene

Concen: 5.133 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.01 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

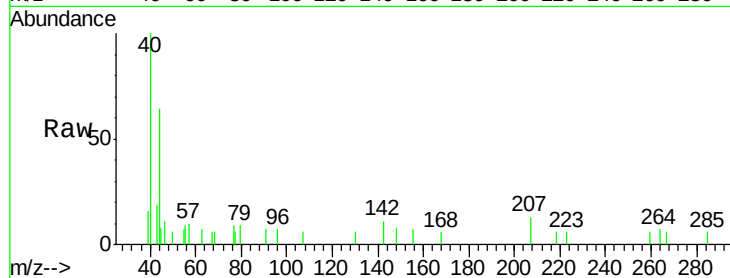
Tot Ion: 96 Resp: 76

Ion Ratio Lower Upper

96 100

61 0.0 116.2 174.2#

98 0.0 51.4 77.0#



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

200

150

100

50

0

2.40

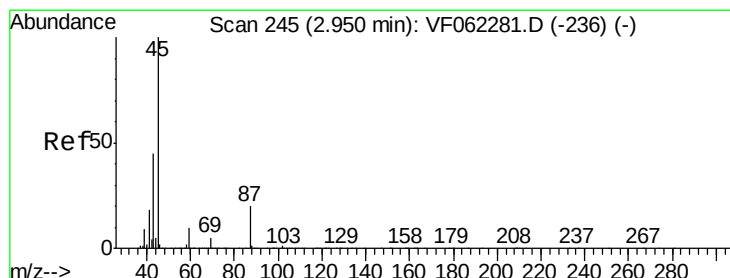
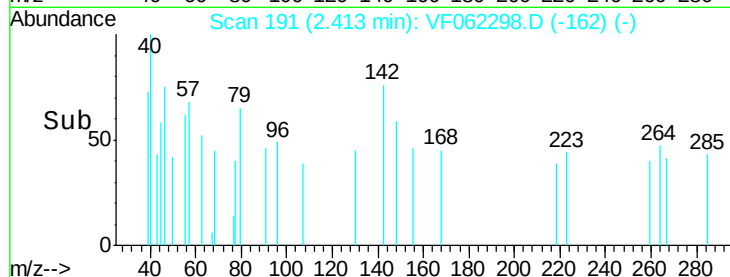
2.41

2.42

2.43

2.44

Time-->



#22

Diisopropyl ether

Concen: 2.005 ug/l

RT: 2.95 min Scan# 245

Delta R.T. -0.01 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Tgt Ion: 45 Resp: 88

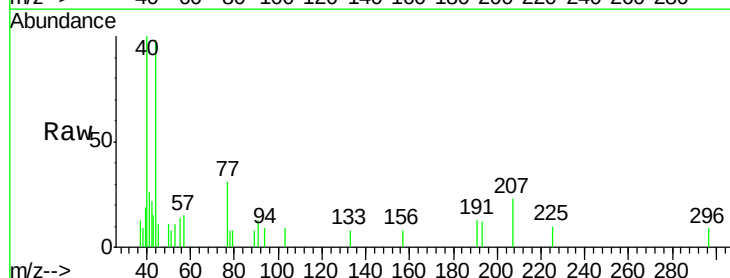
Ion Ratio Lower Upper

45 100

43 0.0 36.2 54.2#

87 0.0 15.8 23.6#

59 0.0 7.8 11.8#



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

500

400

300

200

100

0

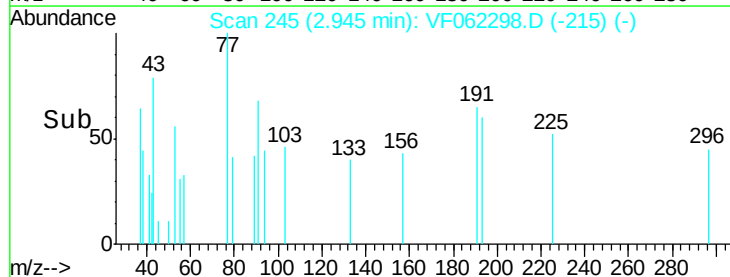
2.93

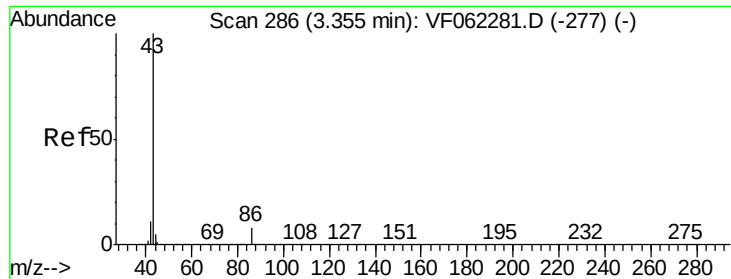
2.94

2.95

2.96

Time-->





#23

Vinyl Acetate

Concen: 68.992 ug/l

RT: 3.35 min Scan# 286

Delta R.T. -0.01 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

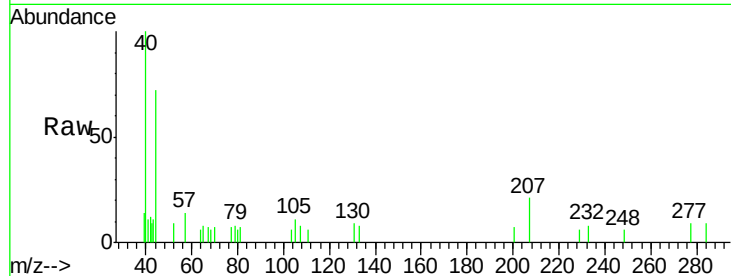
C-2_042419RE

Tot Ion: 43 Resp: 1343

Ion Ratio Lower Upper

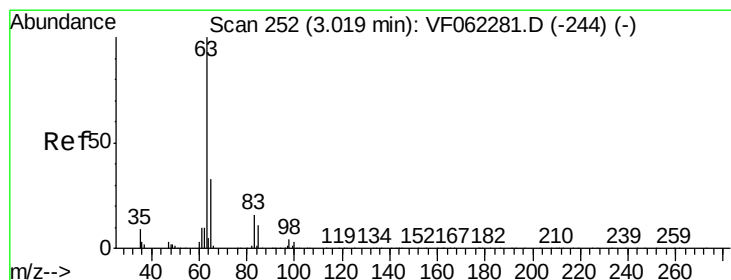
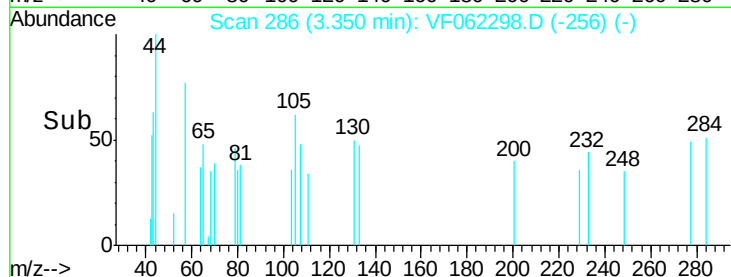
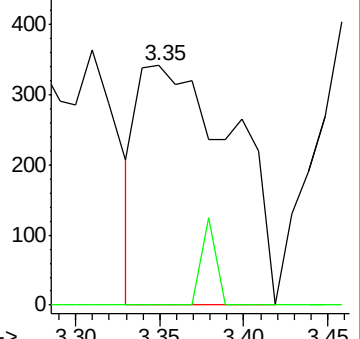
43 100

86 0.0 6.0 9.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 2.395 ug/l

RT: 2.98 min Scan# 249

Delta R.T. -0.03 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

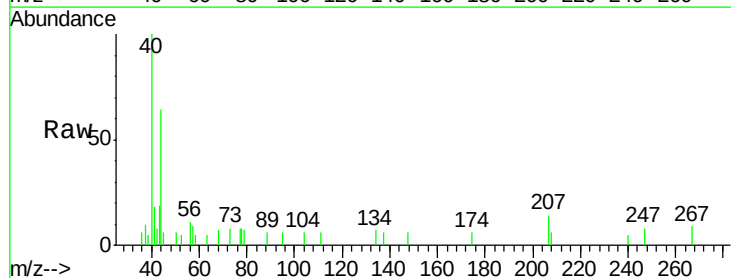
Tgt Ion: 63 Resp: 60

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.2#

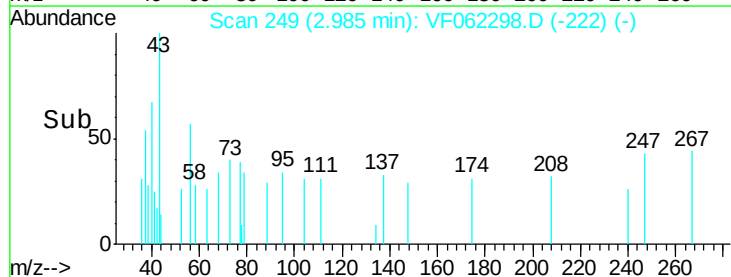
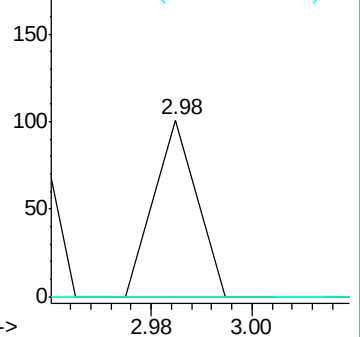
100 0.0 1.5 4.5#

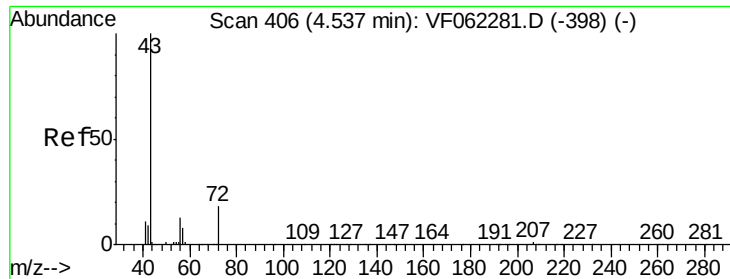


Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0





#25

2-Butanone

Concen: 54.629 ug/l

RT: 4.48 min Scan# 401

Delta R.T. -0.05 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

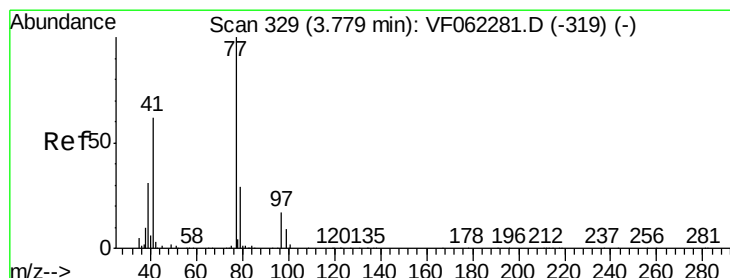
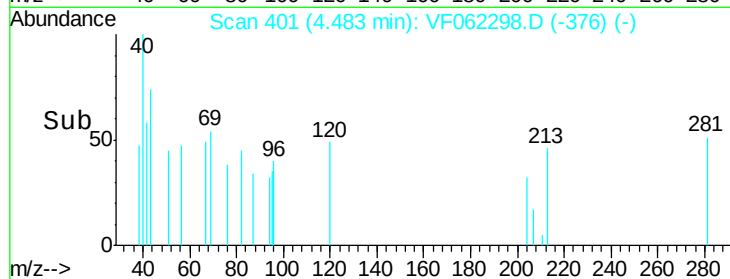
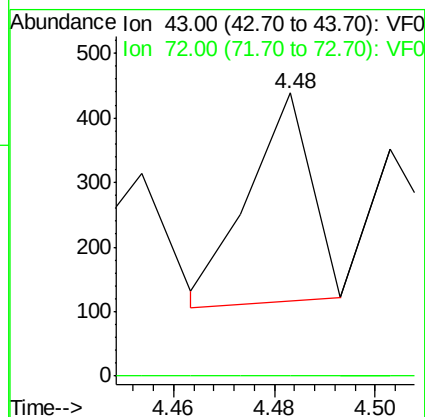
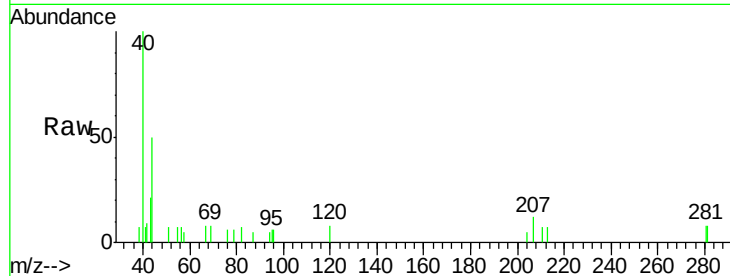
C-2_042419RE

Tot Ion: 43 Resp: 279

Ion Ratio Lower Upper

43 100

72 0.0 15.8 23.6#



#26

2,2-Dichloropropane

Concen: 13.757 ug/l

RT: 3.72 min Scan# 324

Delta R.T. -0.05 min

Lab File: VF062298.D

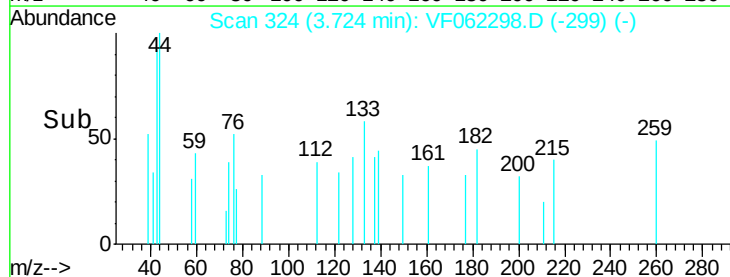
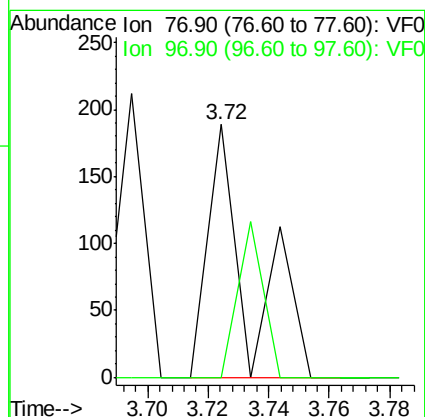
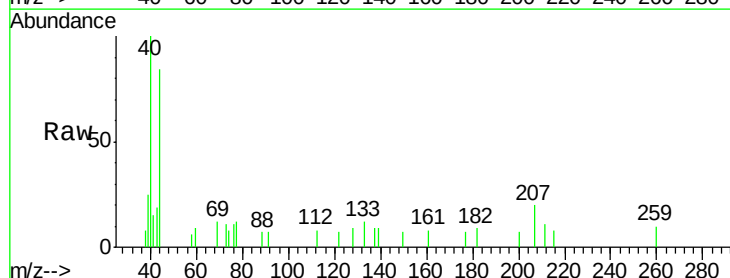
Acq: 25 Apr 2019 18:04

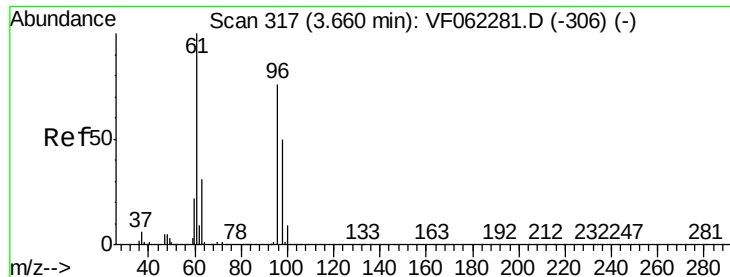
Tgt Ion: 77 Resp: 179

Ion Ratio Lower Upper

77 100

97 38.5 10.3 30.8#



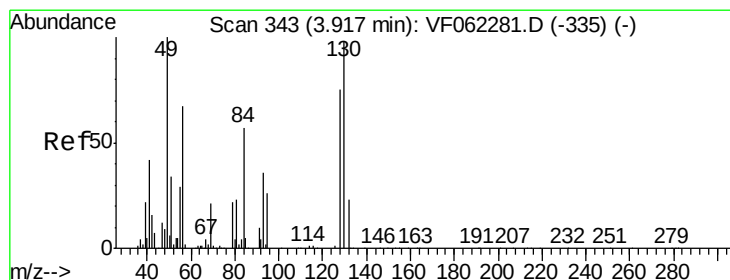
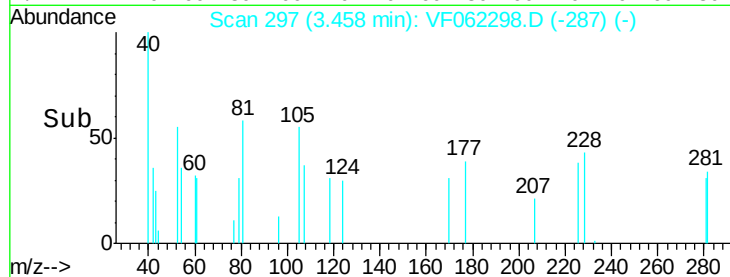
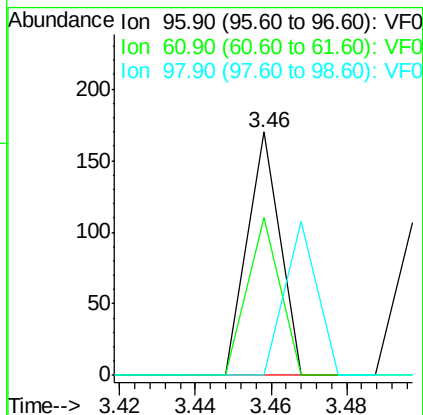
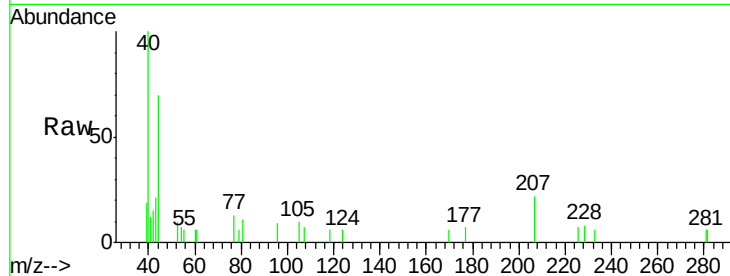


#27

cis-1,2-Dichloroethene
 Concen: 5.386 ug/l
 RT: 3.46 min Scan# 297
 Delta R.T. -0.20 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

Instrument :
 MSVOA_F
 ClientSampleId :
 C-2_042419RE

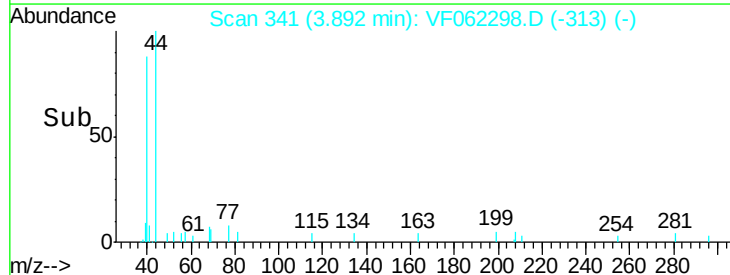
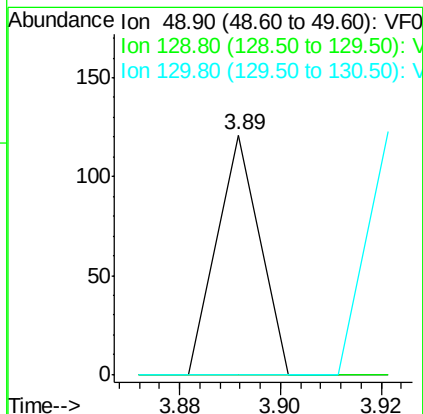
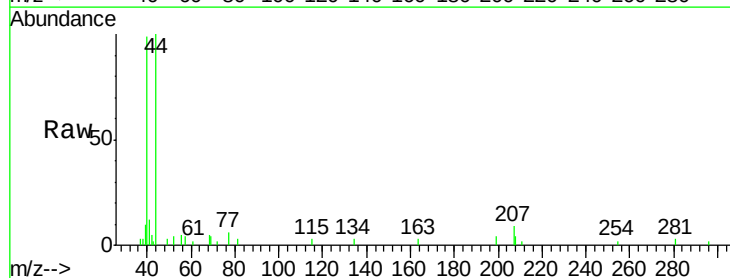
Tot Ion	Ratio	Lower	Upper
96	100		
61	64.4	0.0	257.6
98	63.4	0.0	137.4

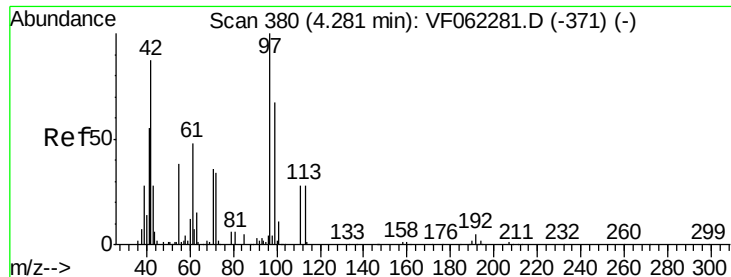


#28

Bromochloromethane
 Concen: 6.819 ug/l
 RT: 3.89 min Scan# 341
 Delta R.T. -0.02 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	0.0	77.0	115.4#





#29

Tetrahydrofuran

Concen: 73.082 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

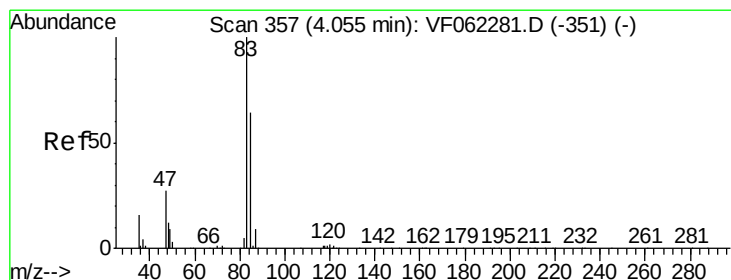
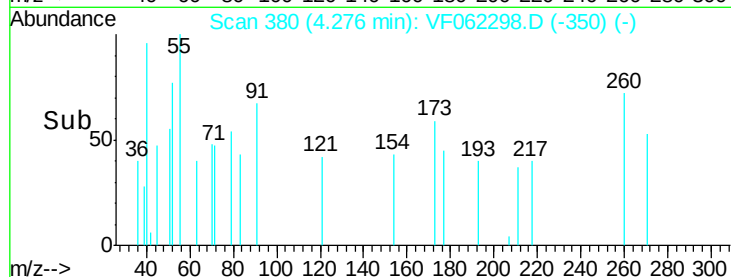
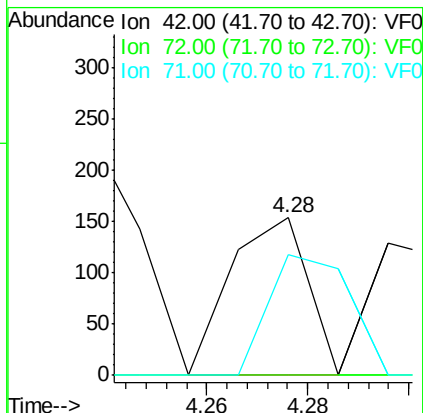
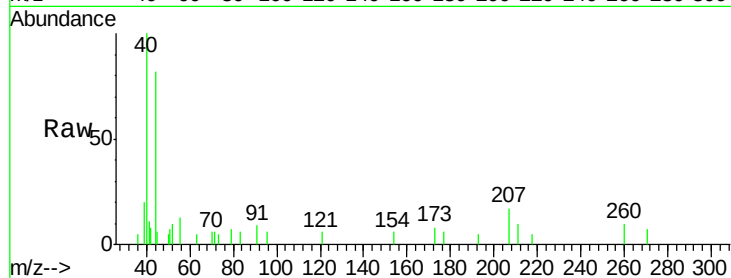
Tot Ion: 42 Resp: 164

Ion Ratio Lower Upper

42 100

72 0.0 29.3 43.9#

71 79.9 31.2 46.8#



#30

Chloroform

Concen: 2.702 ug/l

RT: 4.07 min Scan# 359

Delta R.T. 0.01 min

Lab File: VF062298.D

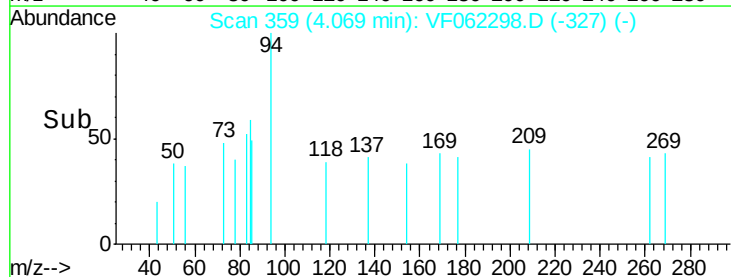
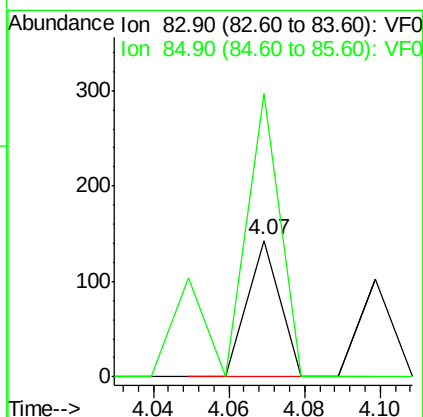
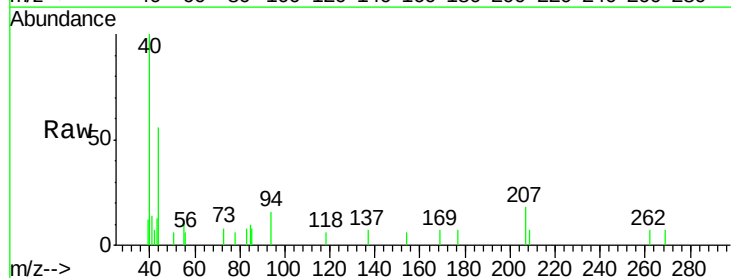
Acq: 25 Apr 2019 18:04

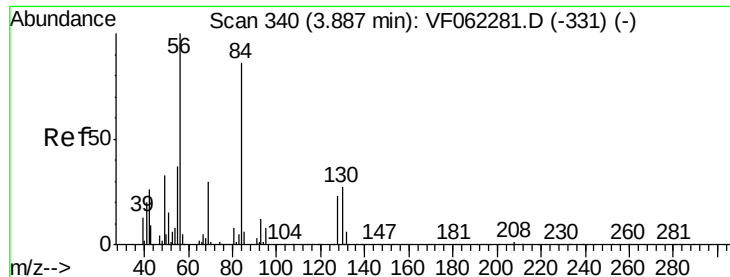
Tgt Ion: 83 Resp: 85

Ion Ratio Lower Upper

83 100

85 207.7 51.1 76.7#

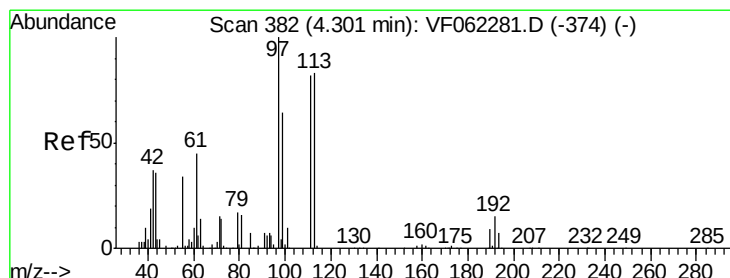
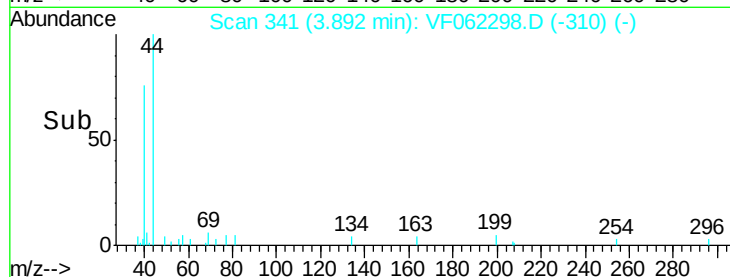
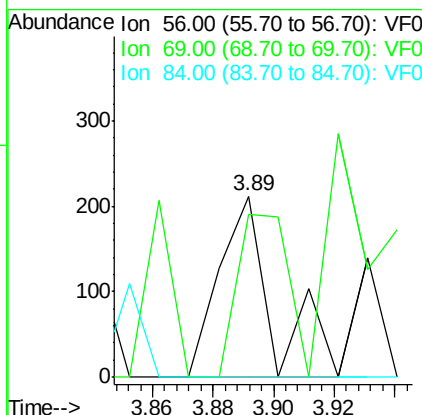
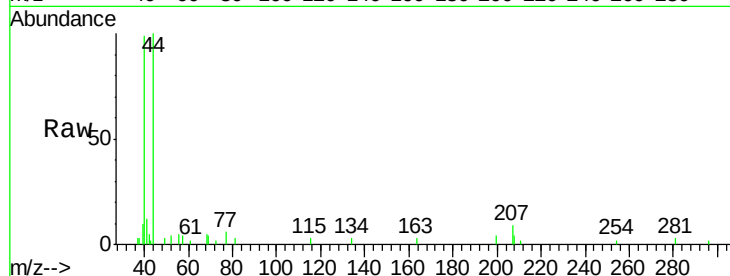




#31
Cyclohexane
Concen: 10.990 ug/l
RT: 3.89 min Scan# 341
Delta R.T. 0.00 min
Lab File: VF062298.D
Acq: 25 Apr 2019 18:04

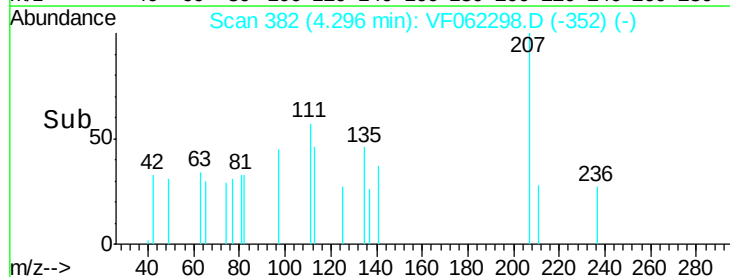
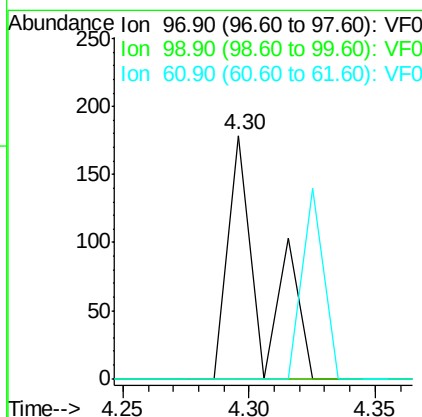
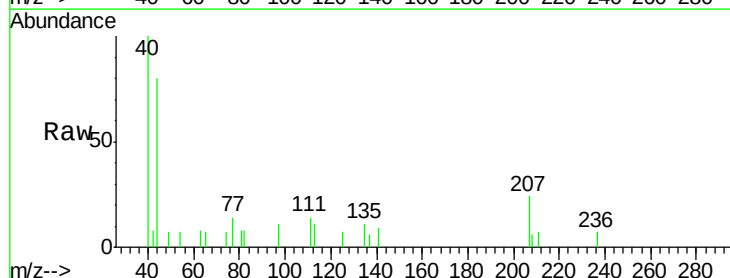
Instrument :
MSVOA_F
ClientSampleId :
C-2_042419RE

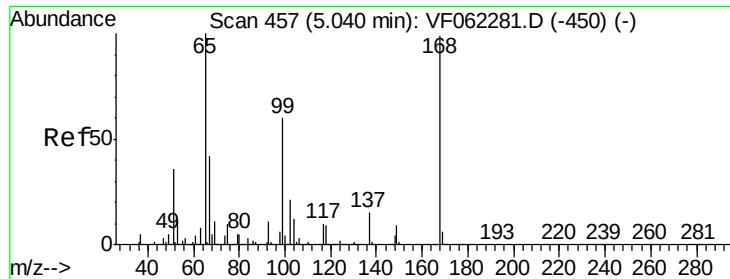
Tot Ion: 56 Resp: 262
Ion Ratio Lower Upper
56 100
69 89.6 24.3 36.5#
84 0.0 68.5 102.7#



#32
1,1,1-Trichloroethane
Concen: 6.761 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.01 min
Lab File: VF062298.D
Acq: 25 Apr 2019 18:04

Tgt Ion: 97 Resp: 167
Ion Ratio Lower Upper
97 100
99 0.0 41.6 62.4#
61 0.0 31.6 47.4#

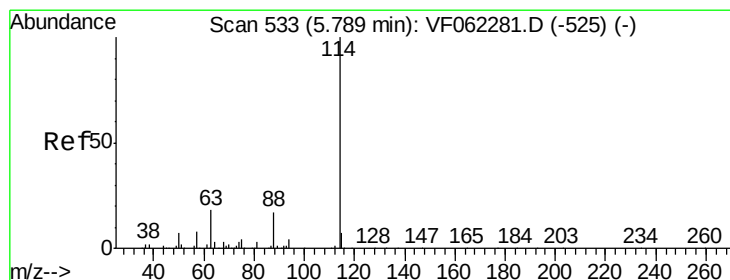
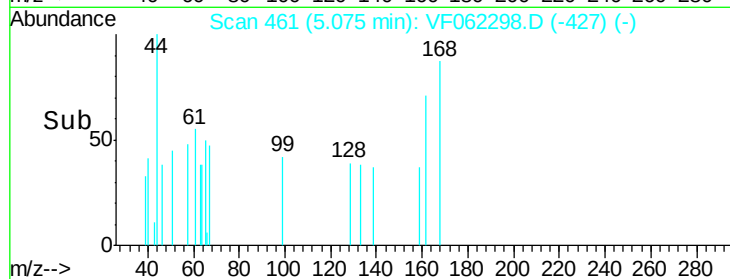
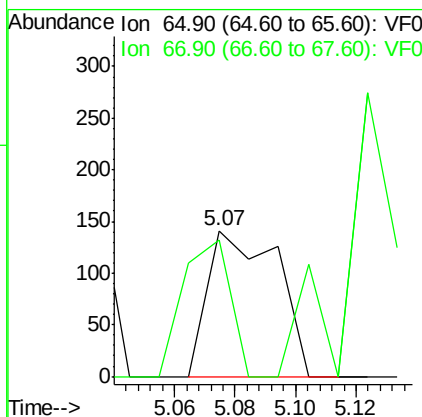
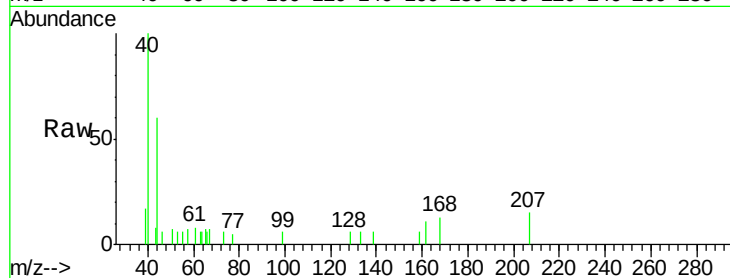




#33
 1,2-Dichloroethane-d4
 Concen: 15.640 ug/l
 RT: 5.07 min Scan# 461
 Delta R.T. 0.03 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

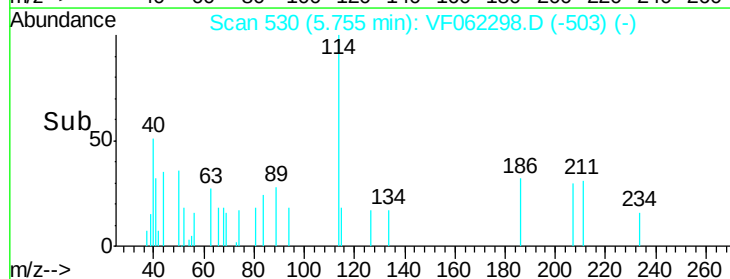
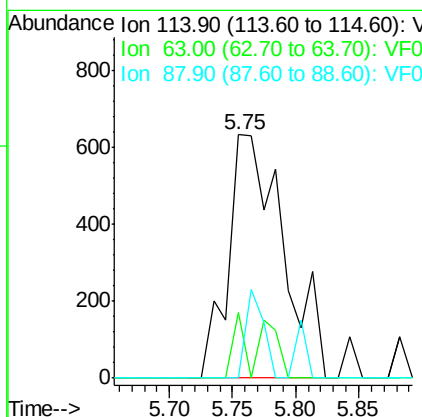
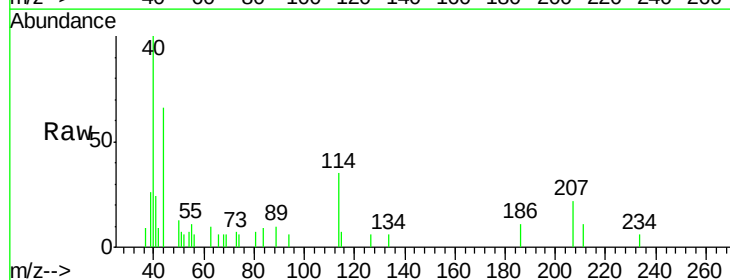
Instrument :
 MSVOA_F
 ClientSampleId :
 C-2_042419RE

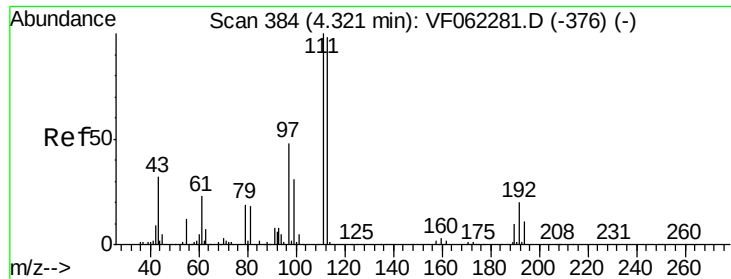
Tot Ion: 65 Resp: 225
 Ion Ratio Lower Upper
 65 100
 67 63.6 0.0 98.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. -0.03 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

Tgt Ion: 114 Resp: 1909
 Ion Ratio Lower Upper
 114 100
 63 27.1 0.0 35.6
 88 0.0 0.0 34.6





#35

Dibromofluoromethane

Concen: 40.836 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.01 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

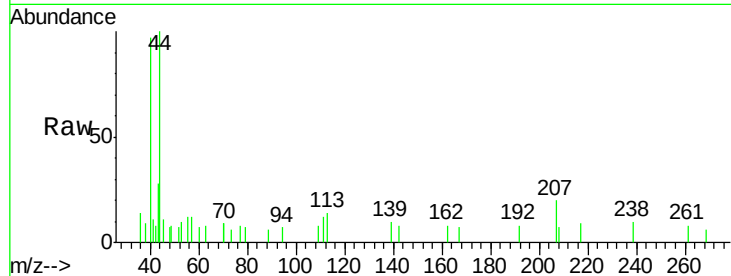
Tot Ion:113 Resp: 578

Ion Ratio Lower Upper

113 100

111 42.2 81.4 122.2#

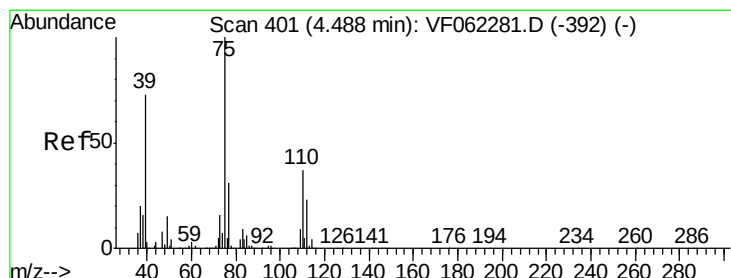
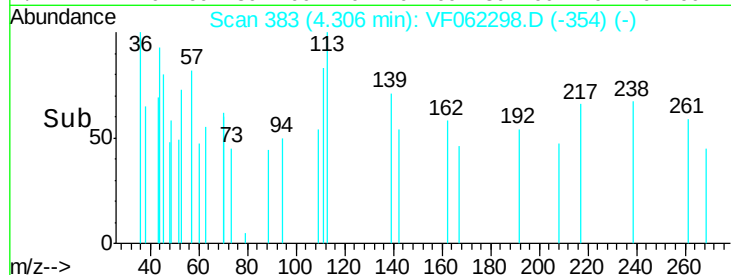
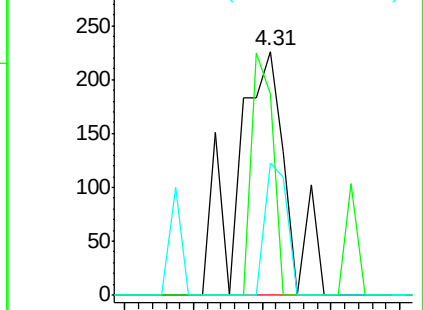
192 23.7 17.0 25.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.975 ug/l

RT: 4.45 min Scan# 398

Delta R.T. -0.03 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

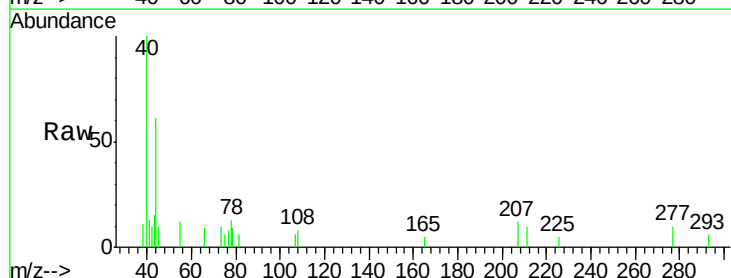
Tgt Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

110 0.0 17.9 53.8#

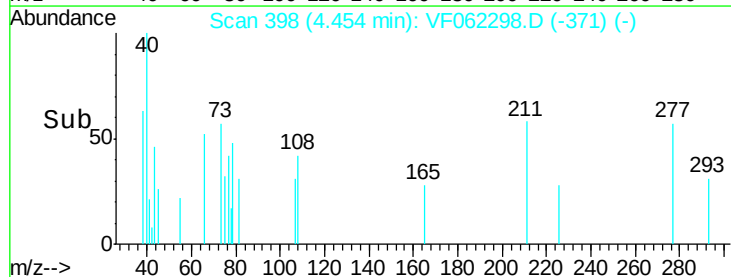
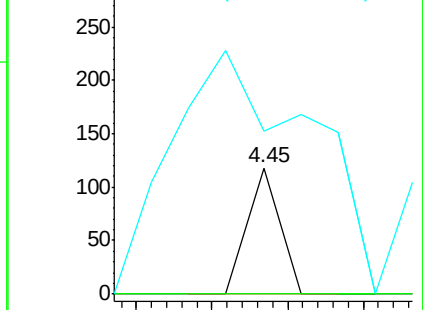
77 827.1 24.6 36.8#

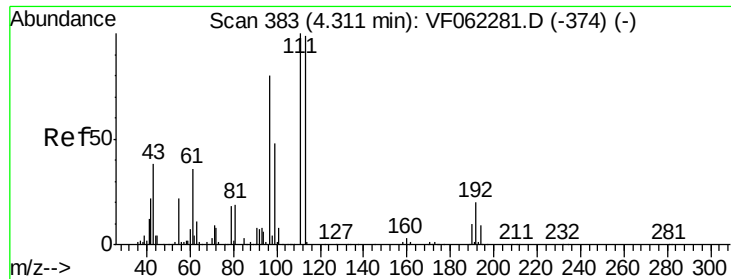


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VF0





#37

Ethyl Acetate

Concen: 43.323 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.02 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

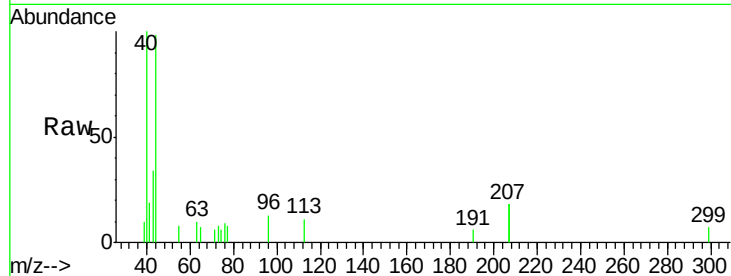
Tot Ion: 43 Resp: 321

Ion Ratio Lower Upper

43 100

61 0.0 85.8 128.6#

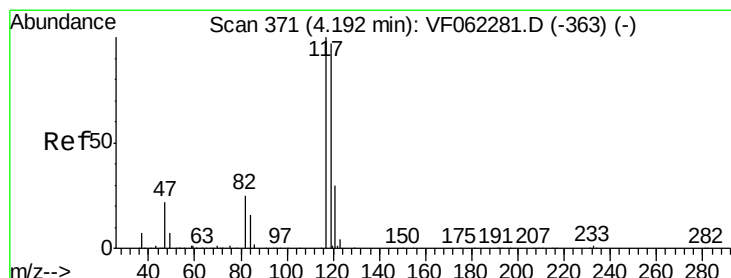
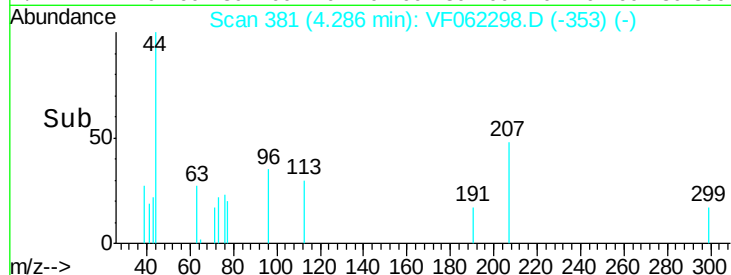
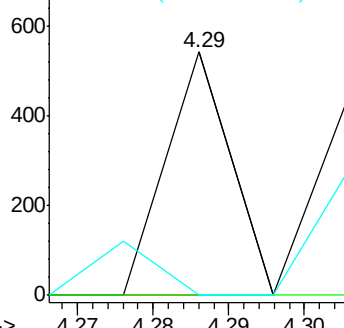
70 22.4 7.3 10.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 4.356 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.05 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

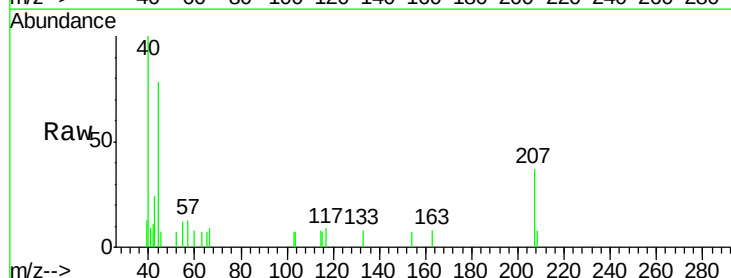
Tgt Ion: 117 Resp: 78

Ion Ratio Lower Upper

117 100

119 0.0 77.3 115.9#

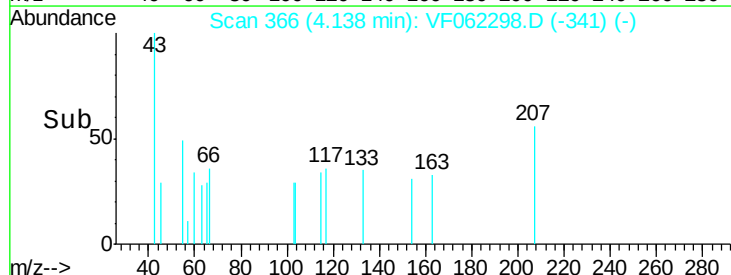
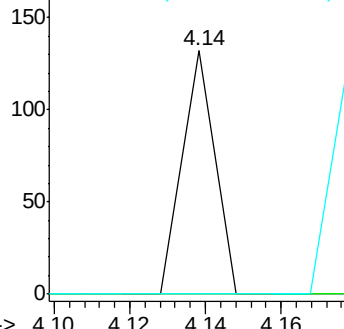
121 0.0 24.3 36.5#

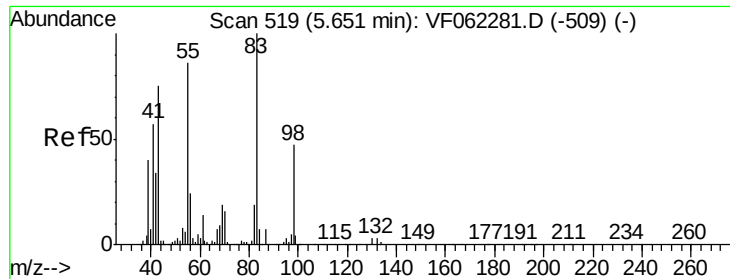


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

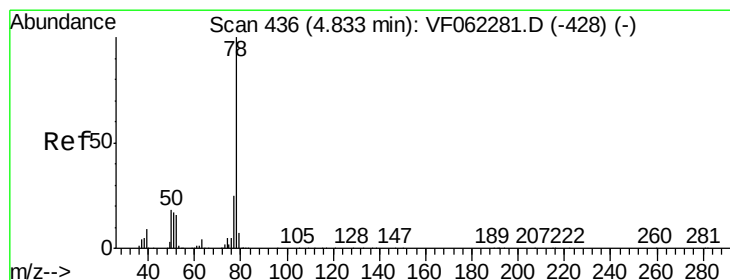
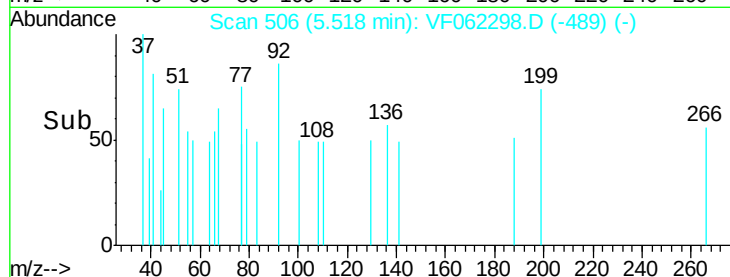
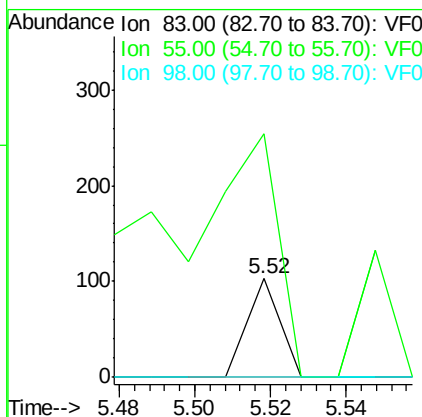
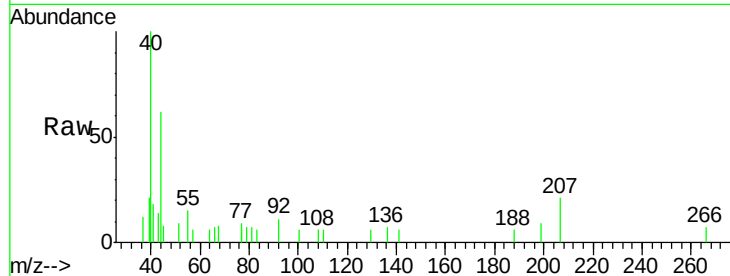




#39
Methylvlcyclohexane
Concen: 2.967 ug/l
RT: 5.52 min Scan# 506
Delta R.T. -0.13 min
Lab File: VF062298.D
Acq: 25 Apr 2019 18:04

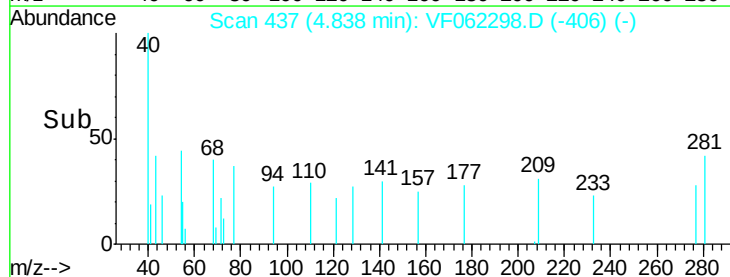
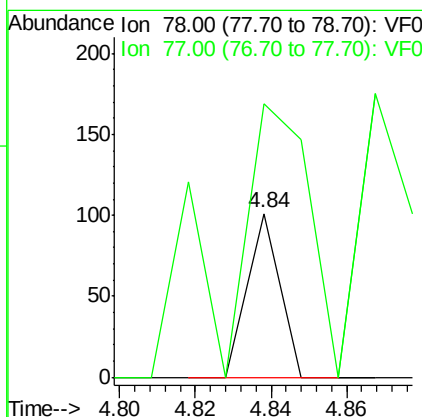
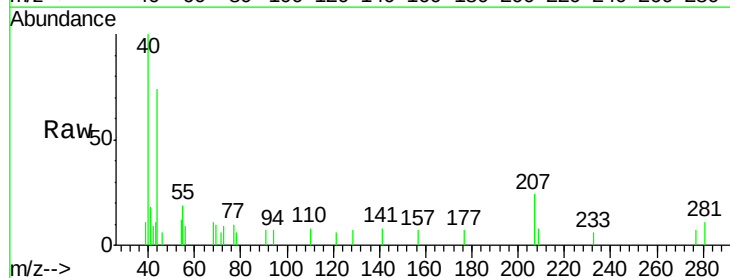
Instrument :
MSVOA_F
ClientSampleId :
C-2_042419RE

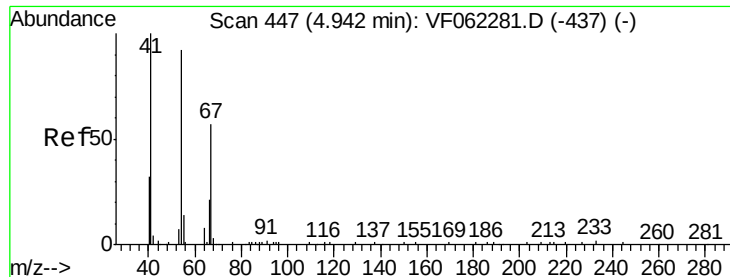
Tot Ion: 83 Resp: 61
Ion Ratio Lower Upper
83 100
55 246.6 68.7 103.1#
98 0.0 37.4 56.2#



#40
Benzene
Concen: 1.410 ug/l
RT: 4.84 min Scan# 437
Delta R.T. 0.00 min
Lab File: VF062298.D
Acq: 25 Apr 2019 18:04

Tgt Ion: 78 Resp: 60
Ion Ratio Lower Upper
78 100
77 167.3 19.7 29.5#





#41

Methacrylonitrile

Concen: 107.136 ug/l

RT: 4.89 min Scan# 442

Delta R.T. -0.05 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

Tot Ion: 41 Resp: 441

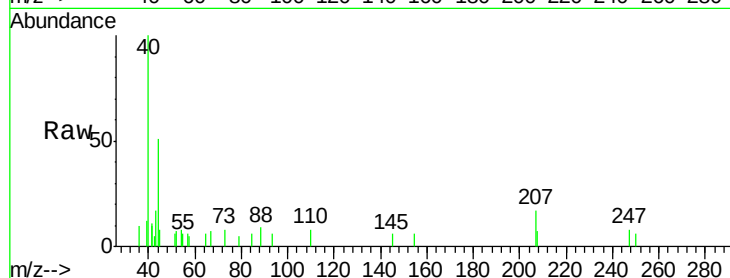
Ion Ratio Lower Upper

41 100

39 185.0 47.3 70.9#

67 0.0 41.3 61.9#

52 17.0 49.4 74.2#

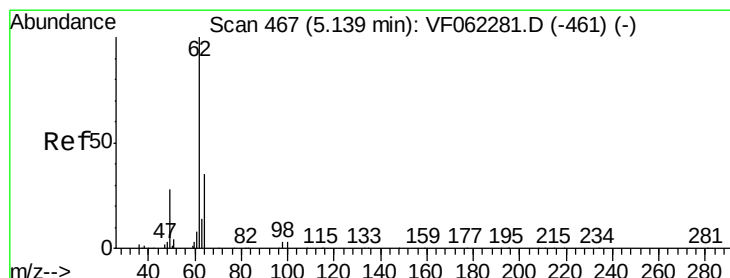
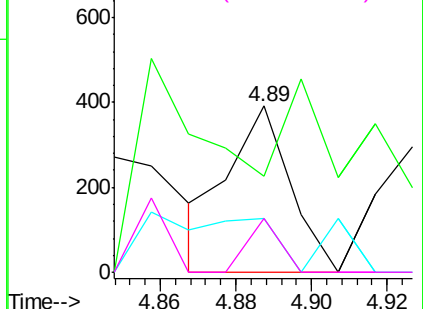
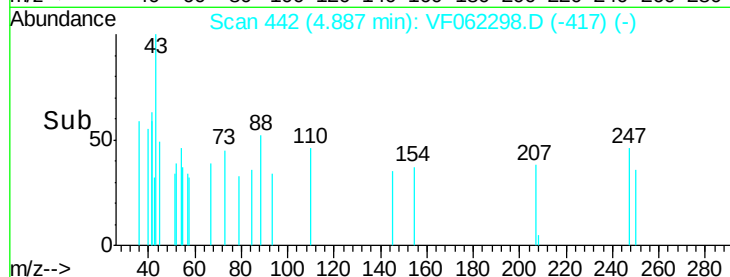


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 4.451 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.13 min

Lab File: VF062298.D

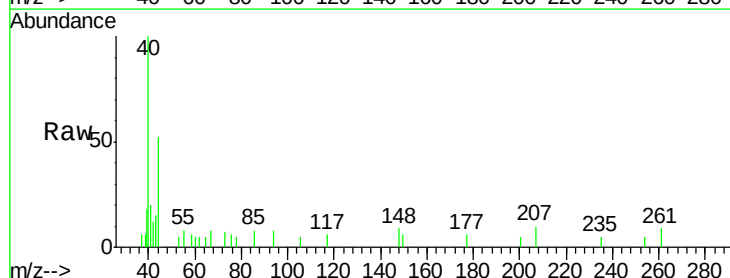
Acq: 25 Apr 2019 18:04

Tgt Ion: 62 Resp: 60

Ion Ratio Lower Upper

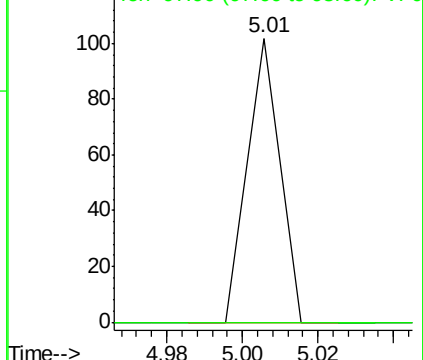
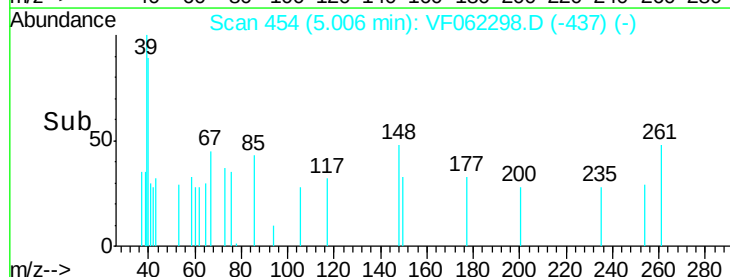
62 100

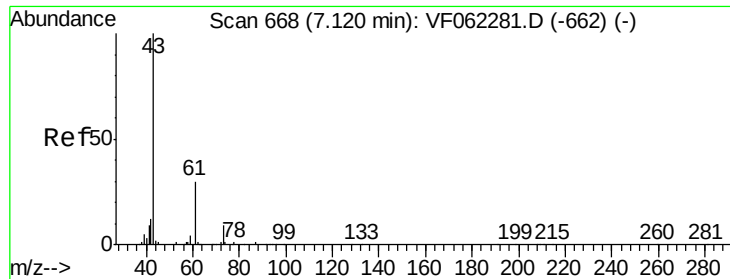
98 0.0 0.0 16.8



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0





#43

Isopropyl Acetate

Concen: 144.487 ug/l

RT: 7.04 min Scan# 660

Delta R.T. -0.08 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

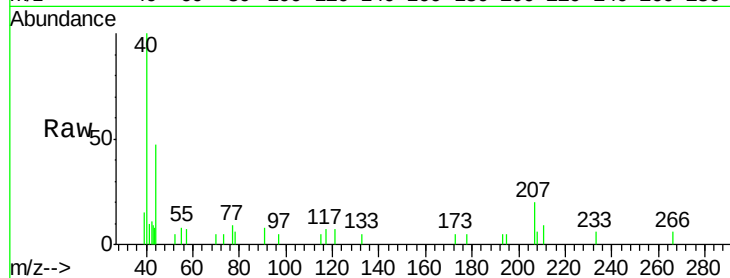
Tot Ion: 43 Resp: 1094

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.6#

87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Time-->

6.95 7.00 7.05 7.10

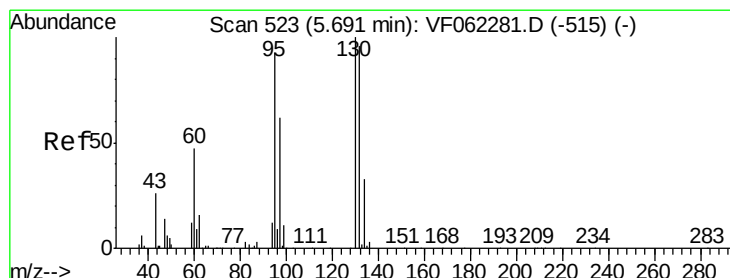
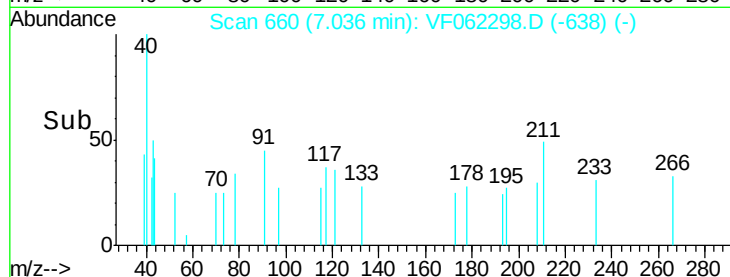
7.04

300

200

100

0



#44

Trichloroethene

Concen: 4.445 ug/l

RT: 5.62 min Scan# 516

Delta R.T. -0.07 min

Lab File: VF062298.D

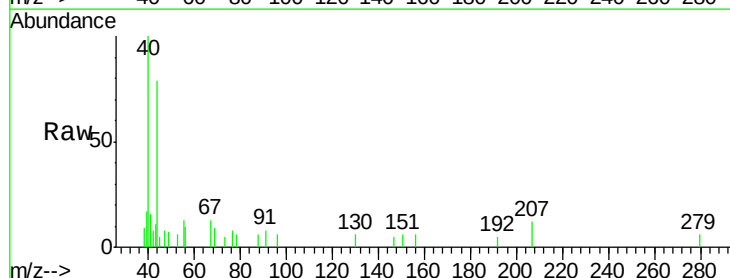
Acq: 25 Apr 2019 18:04

Tgt Ion: 130 Resp: 64

Ion Ratio Lower Upper

130 100

95 0.0 0.0 186.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VF0

Time-->

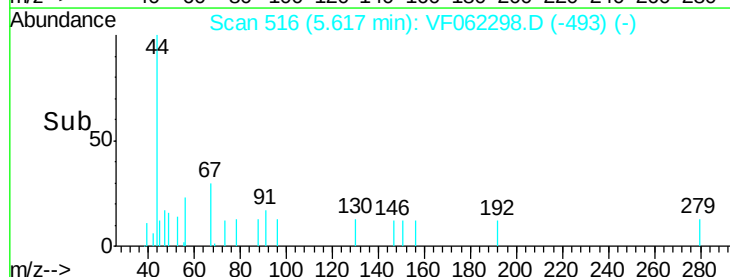
5.58 5.60 5.62 5.64

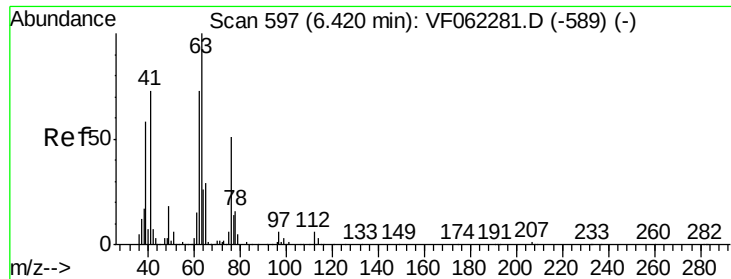
150

100

50

0





#45

1,2-Dichloropropane

Concen: 18.345 ug/l

RT: 6.29 min Scan# 584

Delta R.T. -0.13 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

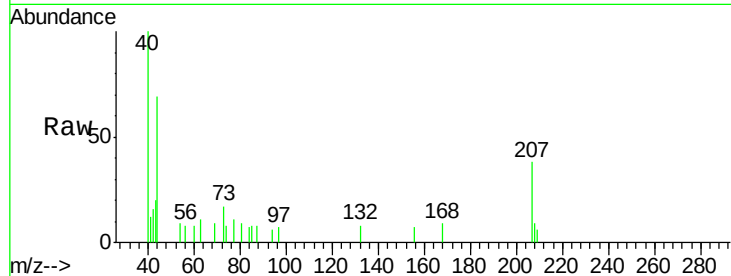
C-2_042419RE

Tot Ion: 63 Resp: 176

Ion Ratio Lower Upper

63 100

65 0.0 23.5 35.3#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 64.90 (64.60 to 65.60): VF0

6.29

200

150

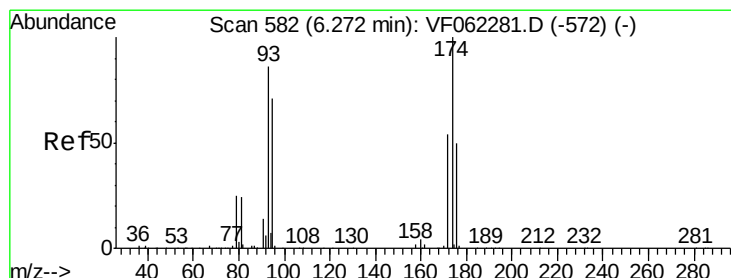
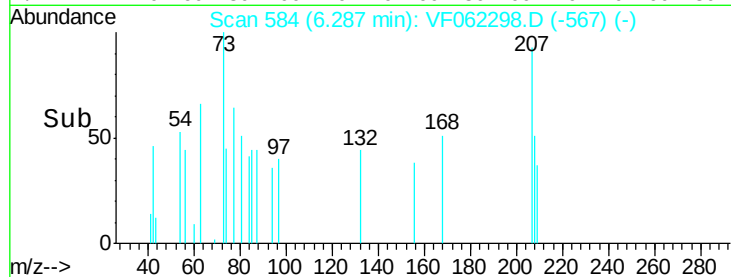
100

50

0

6.26 6.28 6.30 6.32

Time-->



#46

Dibromomethane

Concen: 12.270 ug/l

RT: 6.22 min Scan# 577

Delta R.T. -0.05 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

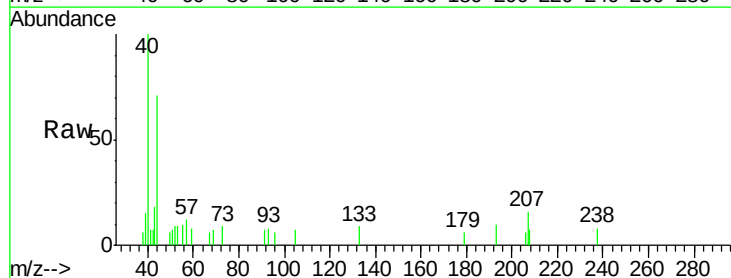
Tgt Ion: 93 Resp: 85

Ion Ratio Lower Upper

93 100

95 0.0 66.2 99.4#

174 0.0 94.9 142.3#



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

6.22

200

150

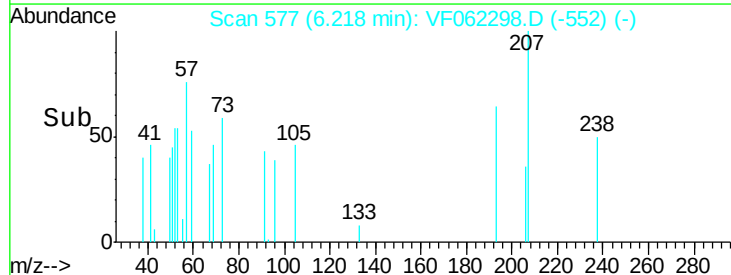
100

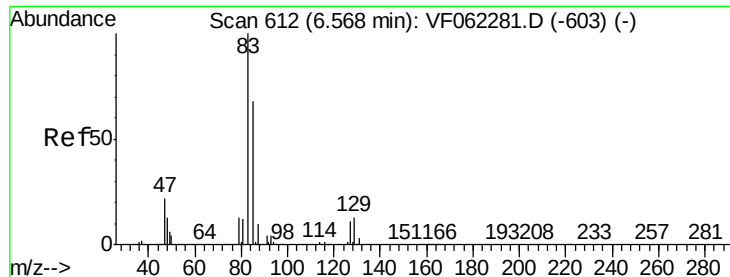
50

0

6.18 6.20 6.22 6.24

Time-->





#47

Bromodichloromethane

Concen: 5.465 ug/l

RT: 6.53 min Scan# 609

Delta R.T. -0.03 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

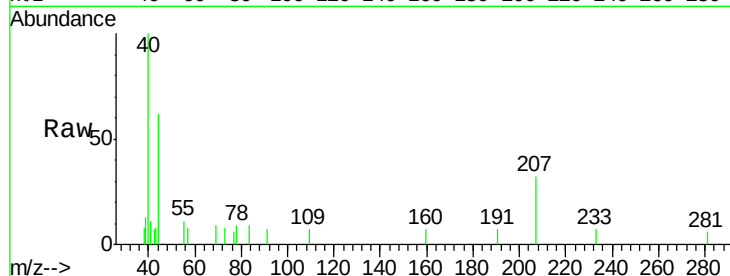
Tot Ion: 83 Resp: 89

Ion Ratio Lower Upper

83 100

85 0.0 54.6 81.8#

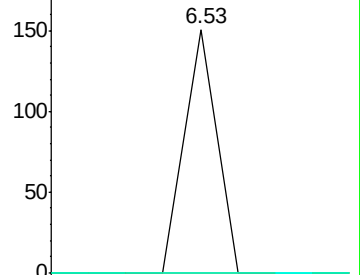
127 0.0 8.7 13.1#



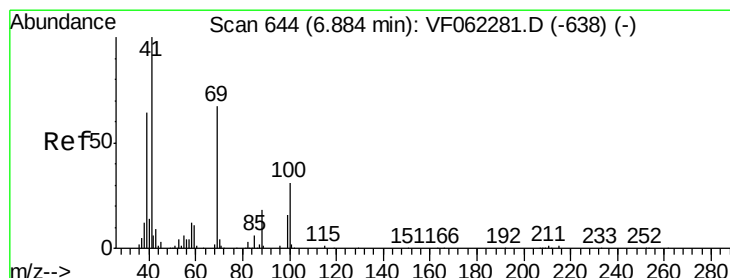
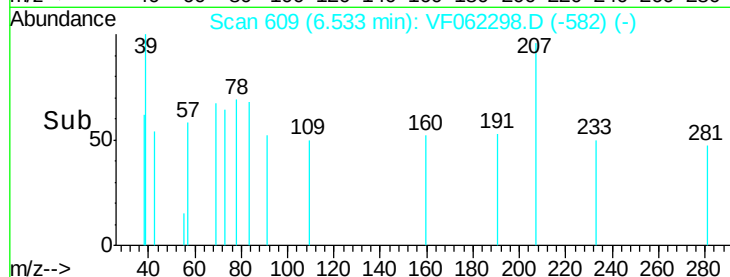
Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



Time-->



#48

Methyl methacrylate

Concen: 207.611 ug/l

RT: 6.80 min Scan# 636

Delta R.T. -0.08 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

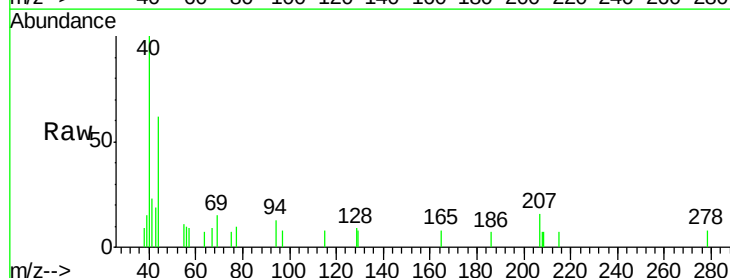
Tgt Ion: 41 Resp: 1127

Ion Ratio Lower Upper

41 100

69 43.6 53.4 80.2#

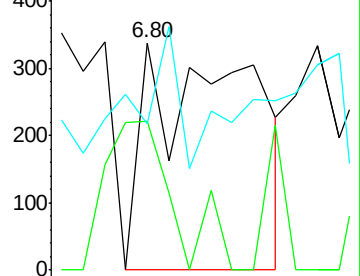
39 55.0 50.9 76.3



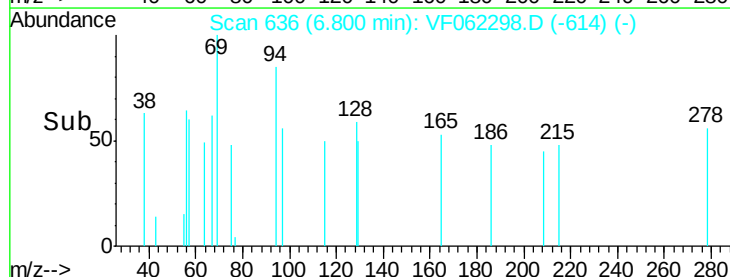
Abundance Ion 41.00 (40.70 to 41.70): VF0

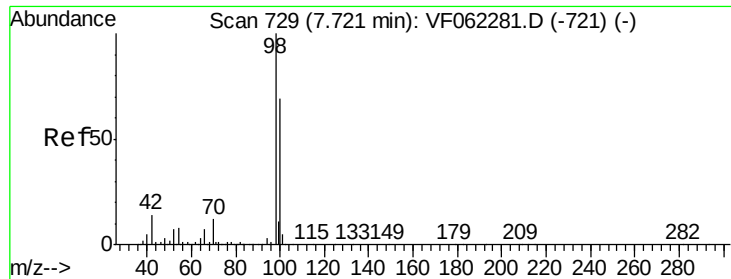
Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->





#50

Toluene-d8

Concen: 1.735 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

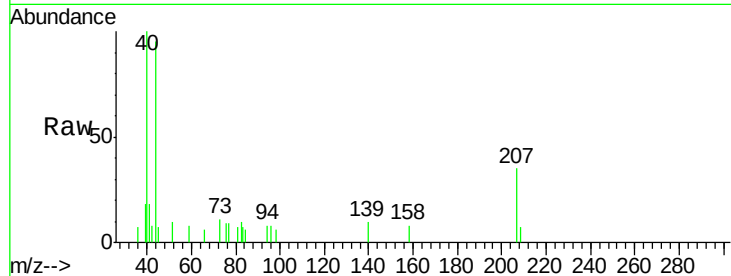
C-2_042419RE

Tot Ion: 98 Resp: 60

Ion Ratio Lower Upper

98 100

100 0.0 54.4 81.6#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71

100

80

60

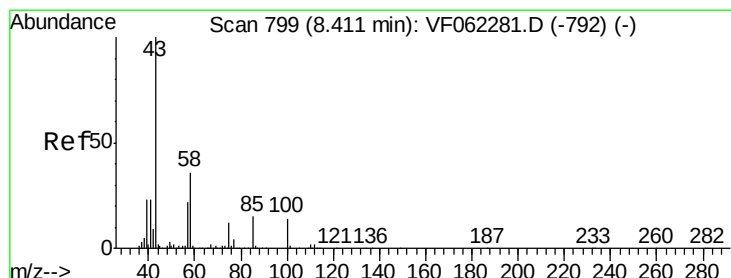
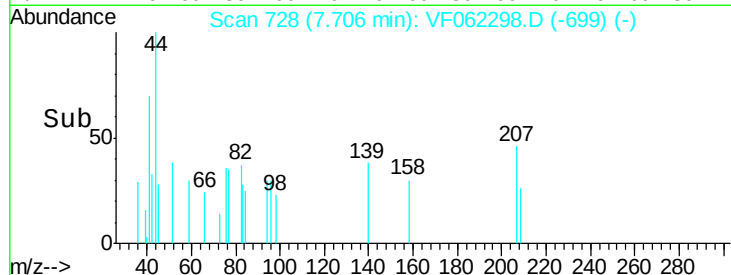
40

20

0

7.68 7.70 7.72 7.74

Time-->



#51

4-Methyl-2-Pentanone

Concen: 91.983 ug/l

RT: 8.34 min Scan# 792

Delta R.T. -0.07 min

Lab File: VF062298.D

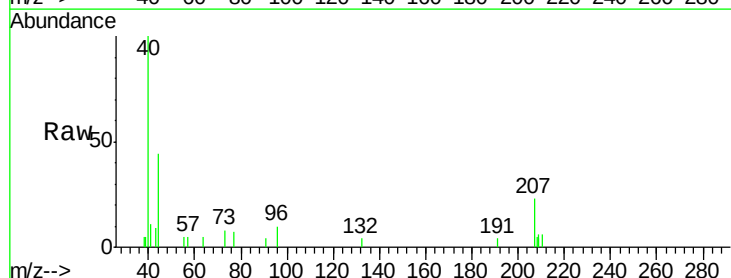
Acq: 25 Apr 2019 18:04

Tgt Ion: 43 Resp: 537

Ion Ratio Lower Upper

43 100

58 14.7 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.34

250

200

150

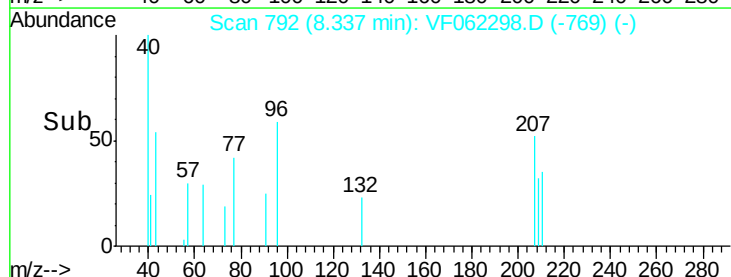
100

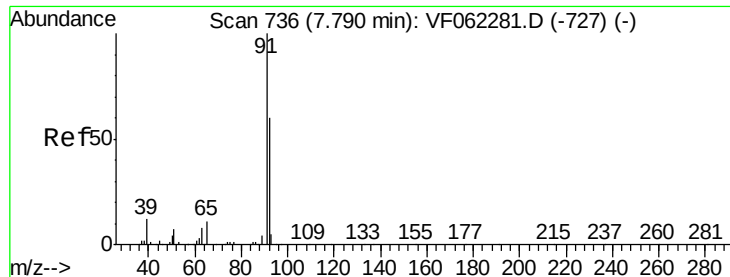
50

0

8.30 8.32 8.34 8.36

Time-->





#52

Toluene

Concen: 2.647 ug/l

RT: 7.90 min Scan# 748

Delta R.T. 0.11 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

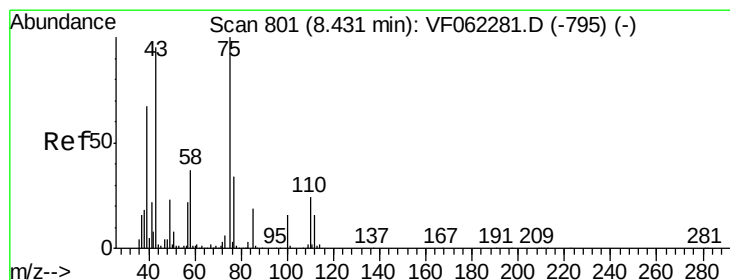
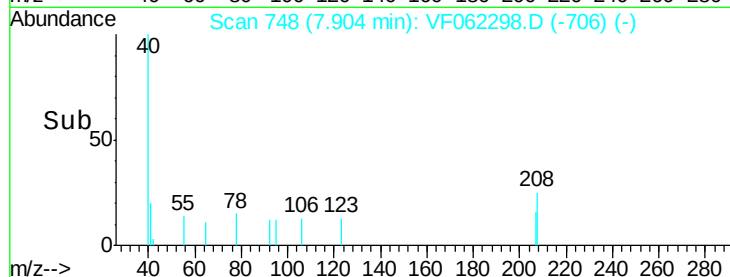
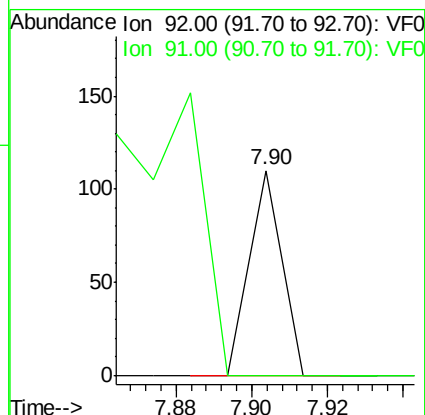
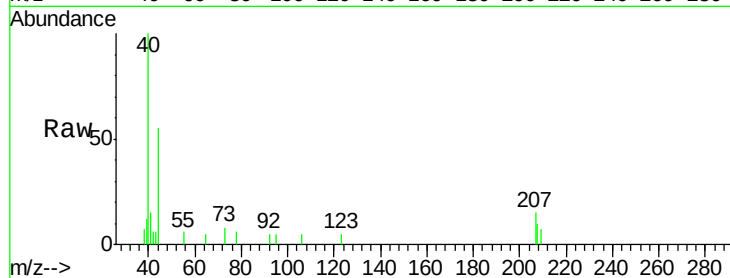
C-2_042419RE

Tot Ion: 92 Resp: 65

Ion Ratio Lower Upper

92 100

91 138.5 132.5 198.7



#53

t-1,3-Dichloropropene

Concen: 5.678 ug/l

RT: 8.33 min Scan# 791

Delta R.T. -0.10 min

Lab File: VF062298.D

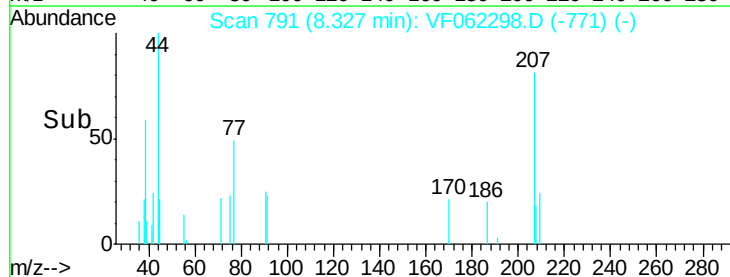
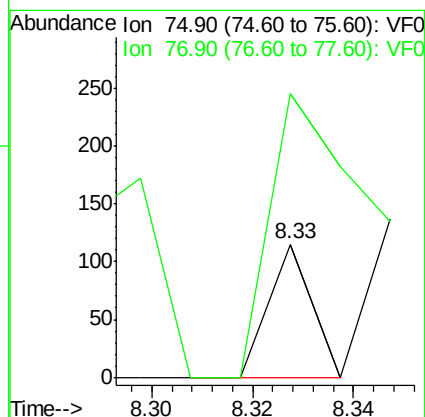
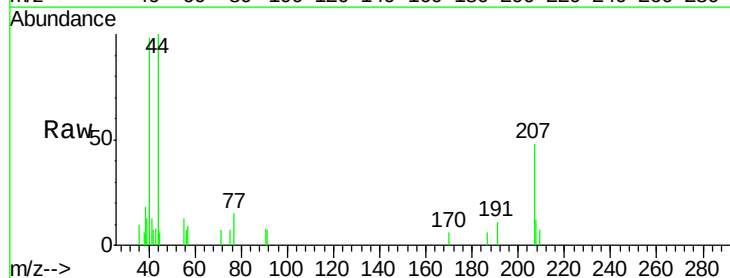
Acq: 25 Apr 2019 18:04

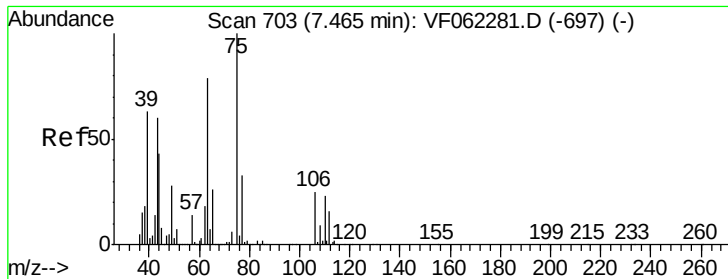
Tgt Ion: 75 Resp: 68

Ion Ratio Lower Upper

75 100

77 213.0 26.9 40.3#





#54

cis-1,3-Dichloropropene

Concen: 8.278 ug/l

RT: 7.41 min Scan# 698

Delta R.T. -0.05 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

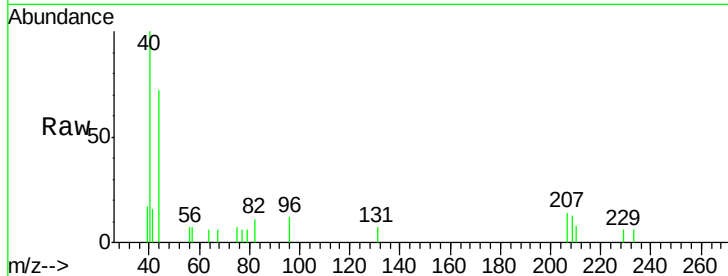
Tot Ion: 75 Resp: 127

Ion Ratio Lower Upper

75 100

77 0.0 26.5 39.7#

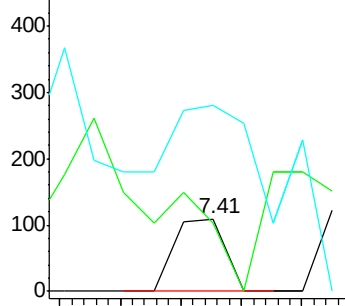
39 162.4 50.2 75.2#



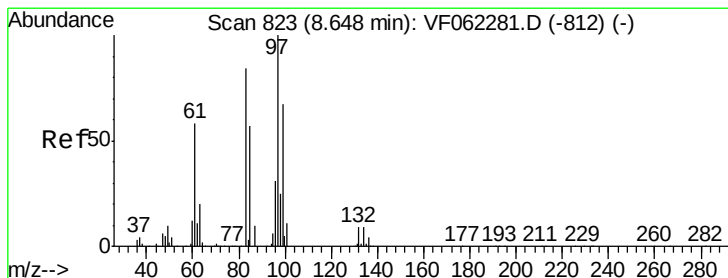
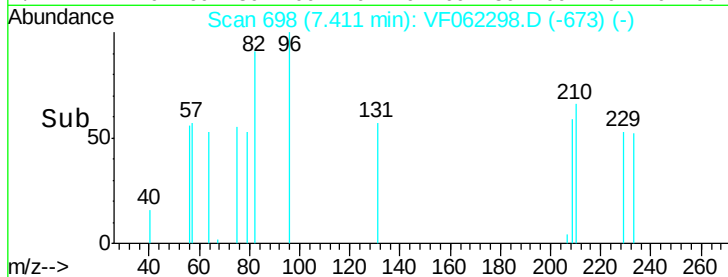
Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#55

1,1,2-Trichloroethane

Concen: 8.747 ug/l

RT: 8.70 min Scan# 829

Delta R.T. 0.05 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Tgt Ion: 97 Resp: 61

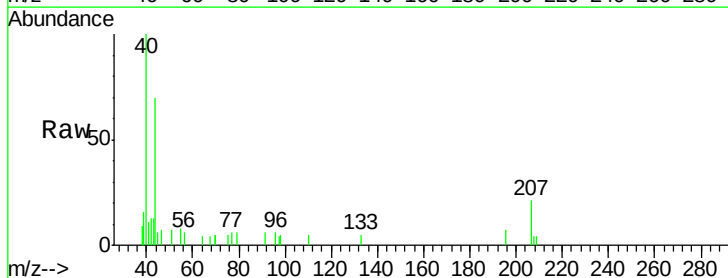
Ion Ratio Lower Upper

97 100

83 0.0 67.5 101.3#

85 0.0 45.3 67.9#

99 0.0 53.4 80.0#

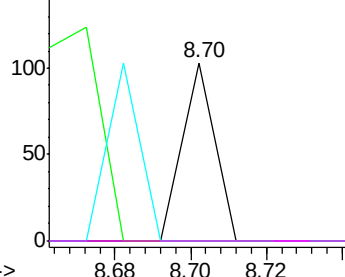


Abundance Ion 96.90 (96.60 to 97.60): VF0

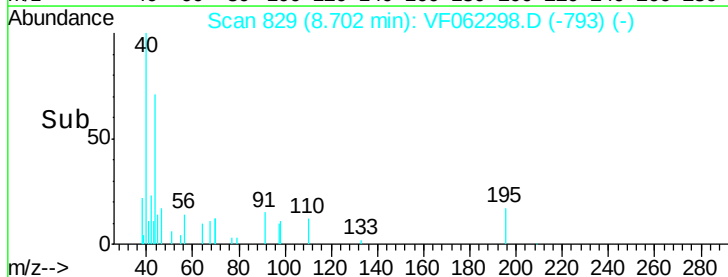
Ion 82.90 (82.60 to 83.60): VF0

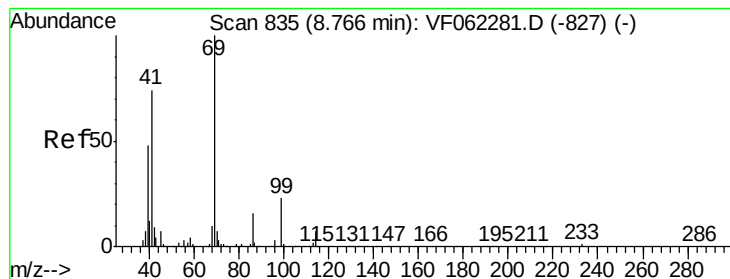
Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



Time-->





#56

Ethyl methacrylate

Concen: 23.756 ug/l

RT: 8.72 min Scan# 831

Delta R.T. -0.04 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

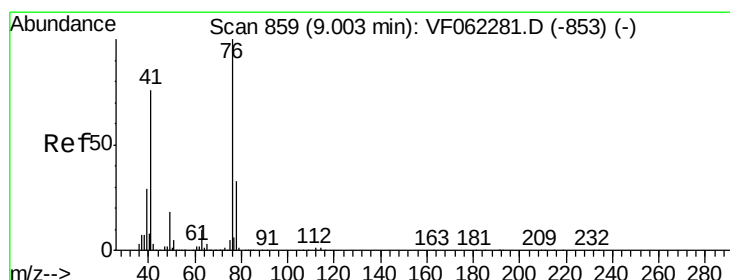
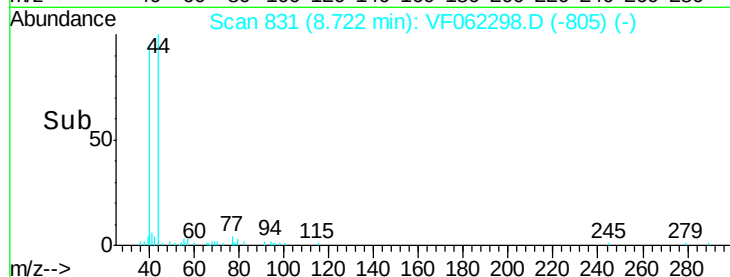
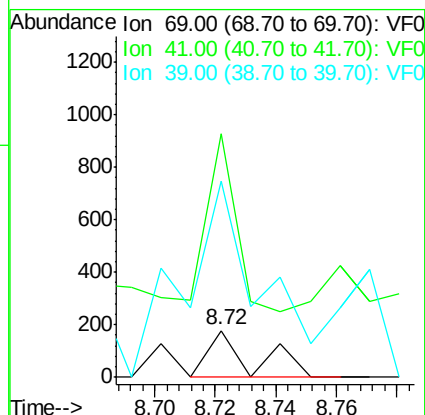
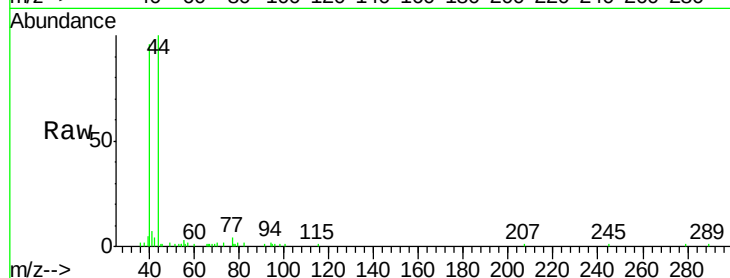
Tot Ion: 69 Resp: 182

Ion Ratio Lower Upper

69 100

41 1097.3 61.5 92.3#

39 718.1 37.9 56.9#



#57

1,3-Dichloropropane

Concen: 12.221 ug/l

RT: 8.97 min Scan# 856

Delta R.T. -0.03 min

Lab File: VF062298.D

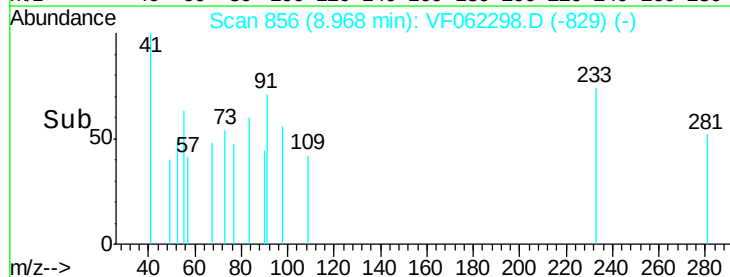
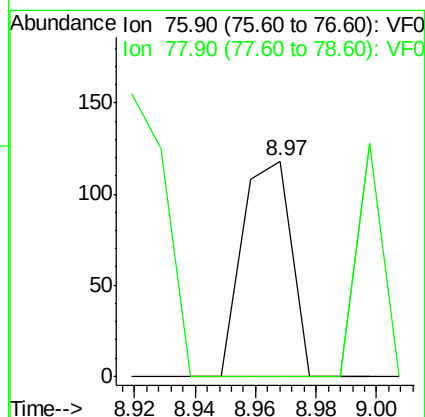
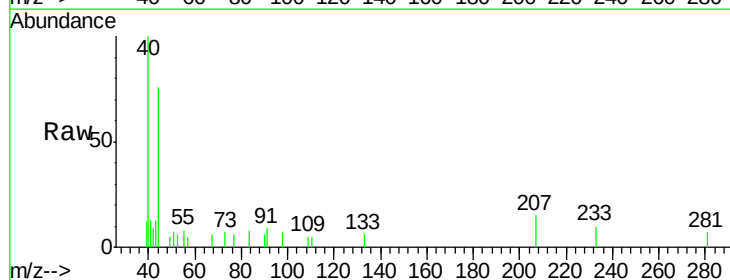
Acq: 25 Apr 2019 18:04

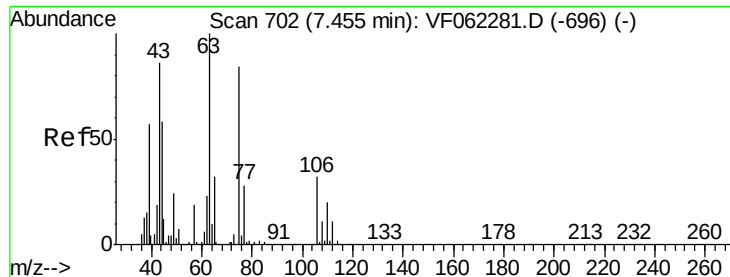
Tgt Ion: 76 Resp: 134

Ion Ratio Lower Upper

76 100

78 0.0 27.0 40.6#

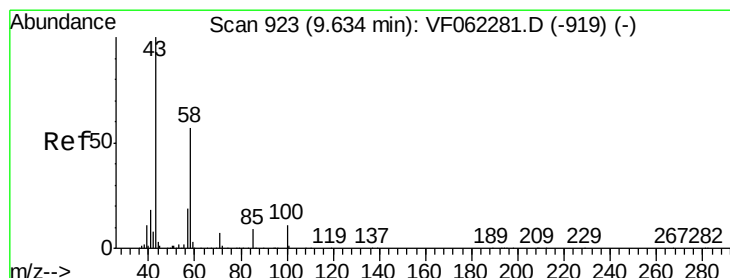
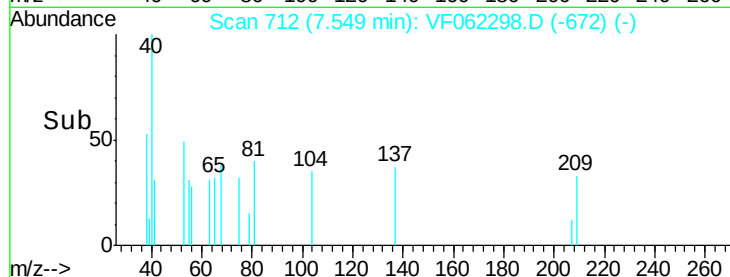
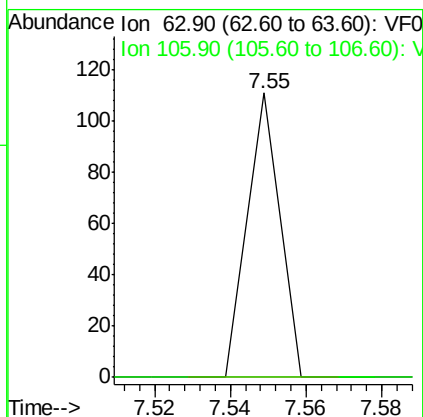
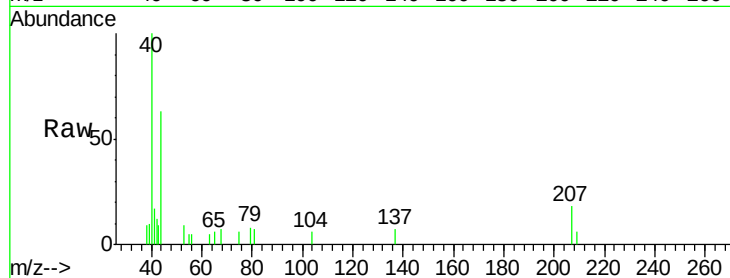




#58
 2-Chloroethyl Vinyl ether
 Concen: 28.311 ug/l
 RT: 7.55 min Scan# 712
 Delta R.T. 0.09 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

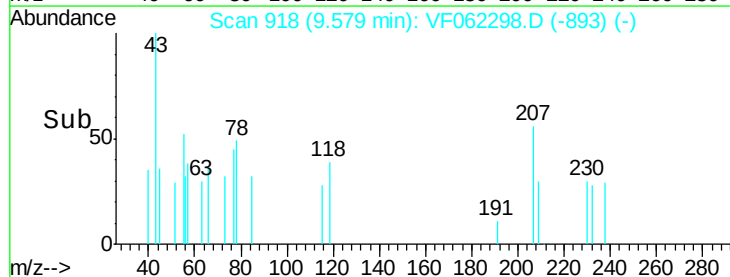
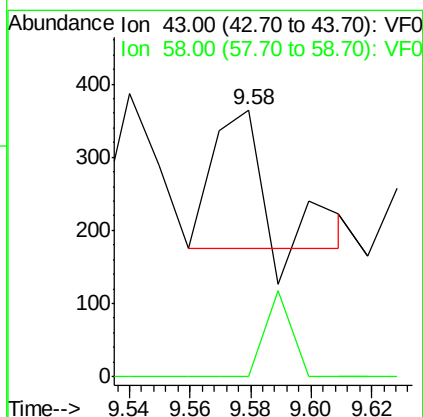
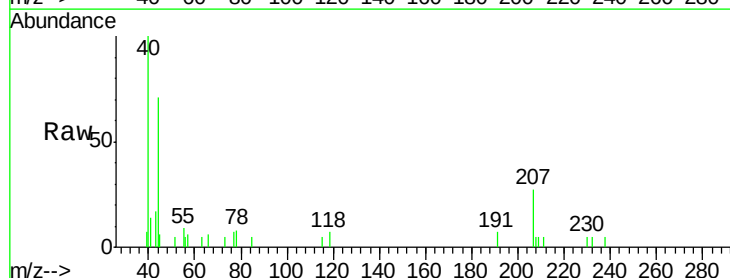
Instrument :
 MSVOA_F
 ClientSampleId :
 C-2_042419RE

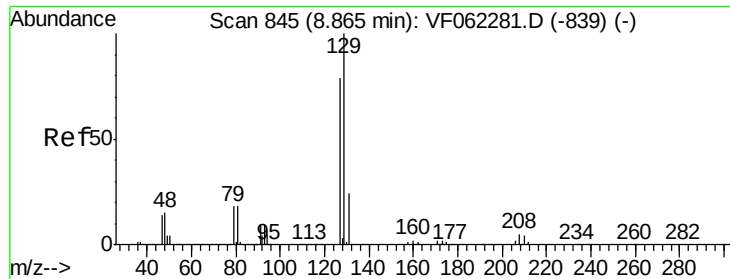
Tot Ion: 63 Resp: 66
 Ion Ratio Lower Upper
 63 100
 106 0.0 24.7 37.1#



#59
 2-Hexanone
 Concen: 56.950 ug/l
 RT: 9.58 min Scan# 918
 Delta R.T. -0.05 min
 Lab File: VF062298.D
 Acq: 25 Apr 2019 18:04

Tgt Ion: 43 Resp: 242
 Ion Ratio Lower Upper
 43 100
 58 28.5 24.9 74.7





#60

Dibromochloromethane

Concen: 9.189 ug/l

RT: 8.73 min Scan# 832

Delta R.T. -0.13 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

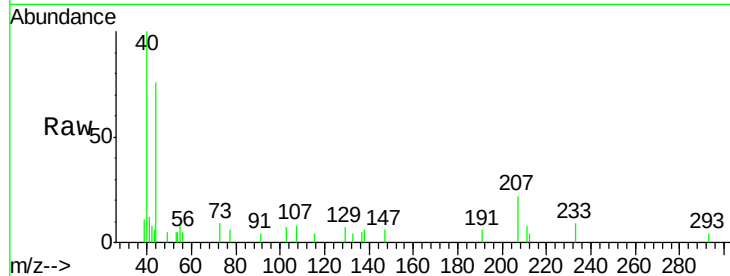
C-2_042419RE

Tot Ion:129 Resp: 104

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.73

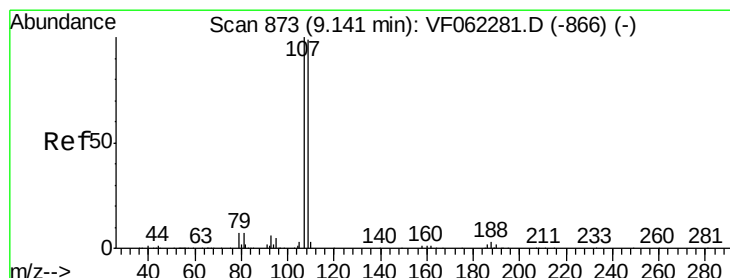
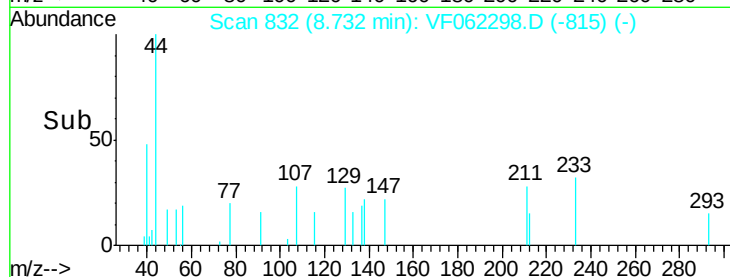
150

100

50

0

Time--> 8.70 8.72 8.74 8.76



#61

1,2-Dibromoethane

Concen: 8.301 ug/l

RT: 8.95 min Scan# 854

Delta R.T. -0.19 min

Lab File: VF062298.D

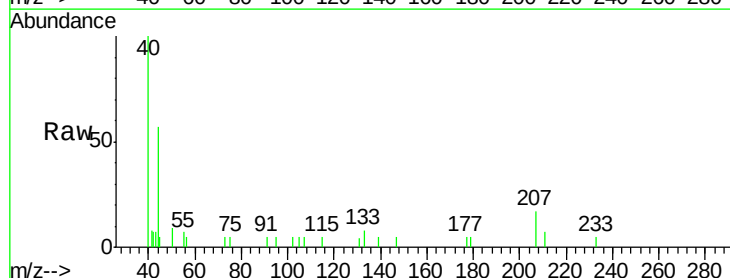
Acq: 25 Apr 2019 18:04

Tgt Ion:107 Resp: 67

Ion Ratio Lower Upper

107 100

109 92.5 78.7 118.1



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

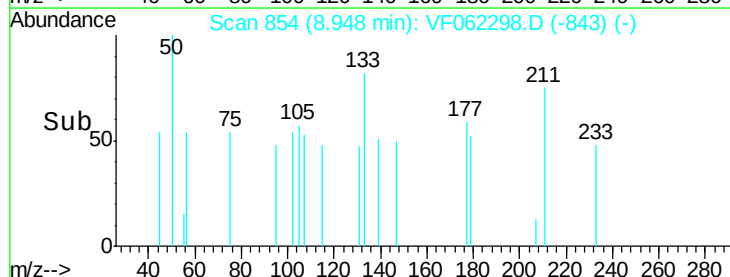
150

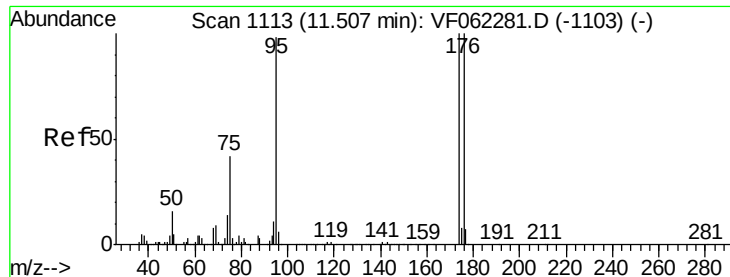
100

50

0

Time--> 8.92 8.94 8.96 8.98





#62

4-Bromofluorobenzene

Concen: 9.122 ug/l

RT: 11.43 min Scan# 1106

Delta R.T. -0.07 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

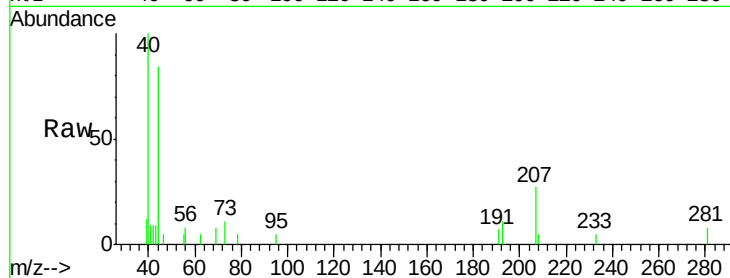
Tot Ion: 95 Resp: 130

Ion Ratio Lower Upper

95 100

174 0.0 0.0 185.2

176 0.0 0.0 184.8

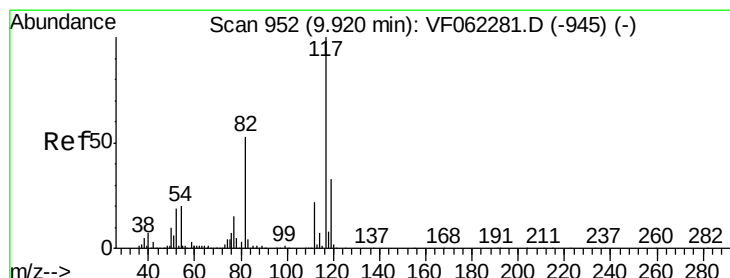
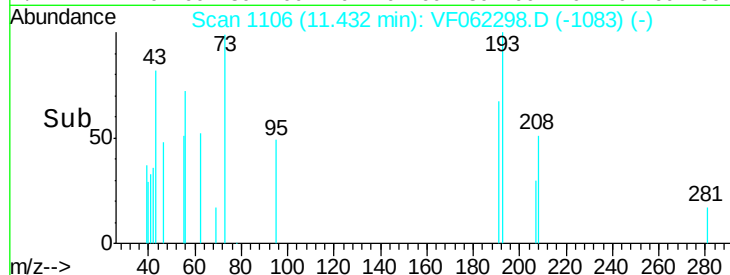
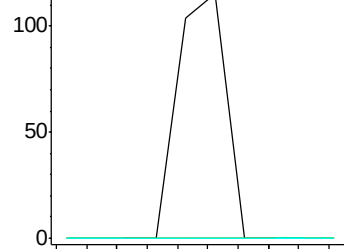


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.43



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.98 min Scan# 959

Delta R.T. 0.06 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

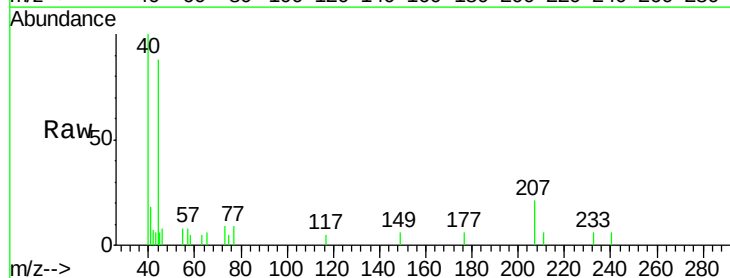
Tgt Ion: 117 Resp: 65

Ion Ratio Lower Upper

117 100

82 0.0 42.6 64.0#

119 0.0 26.1 39.1#

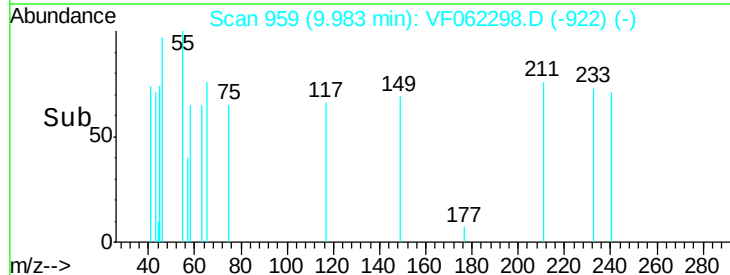
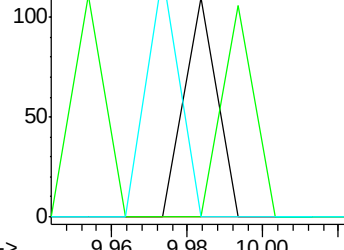


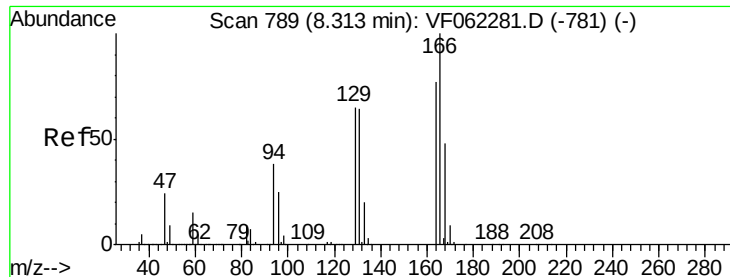
Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V

9.98





#64

Tetrachloroethene

Concen: 110.360 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.01 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

Tot Ion:164 Resp: 60

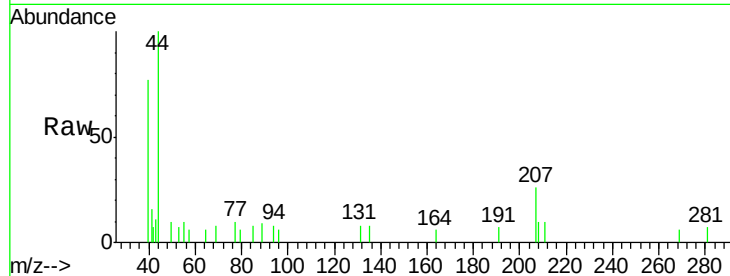
Ion Ratio Lower Upper

164 100

166 0.0 103.5 155.3#

129 0.0 67.6 101.4#

131 134.3 66.1 99.1#



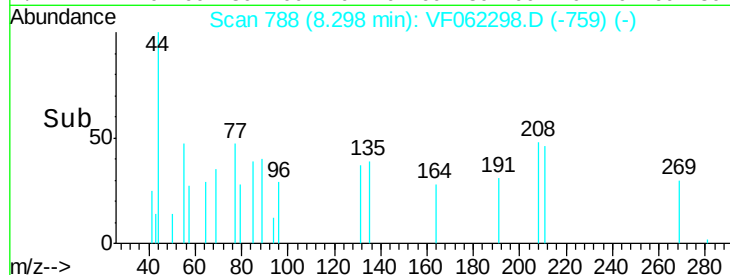
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

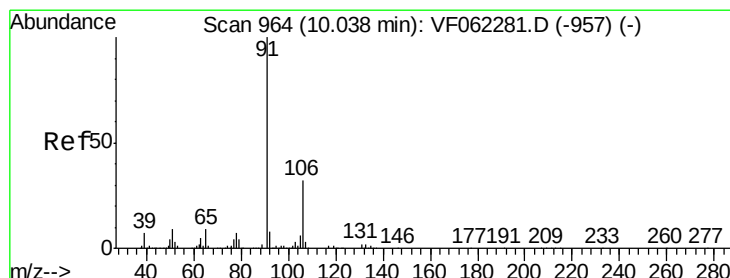
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

8.30



Time--> 8.26 8.28 8.30 8.32



#67

Ethyl Benzene

Concen: 122.518 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.03 min

Lab File: VF062298.D

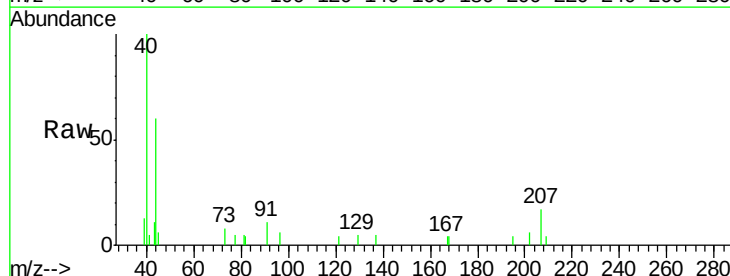
Acq: 25 Apr 2019 18:04

Tgt Ion: 91 Resp: 253

Ion Ratio Lower Upper

91 100

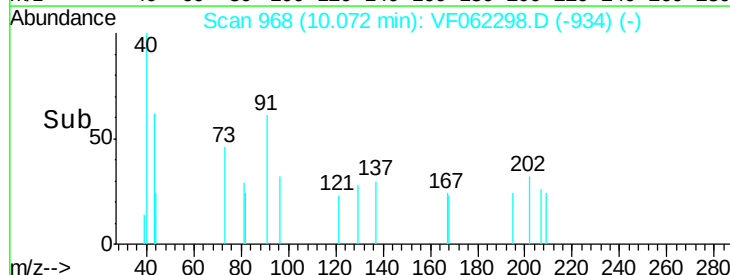
106 0.0 25.6 38.4#



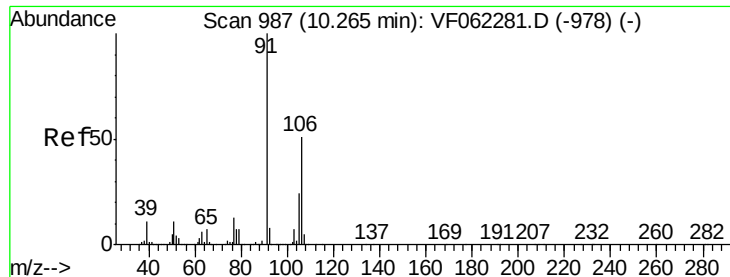
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.07



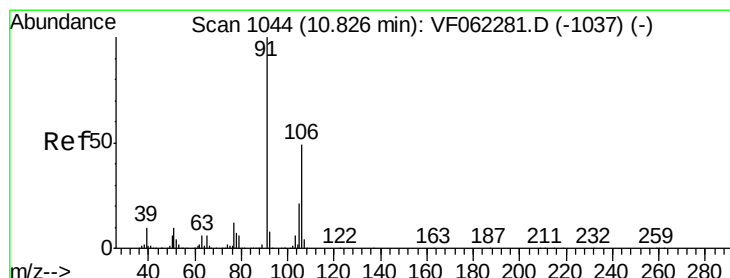
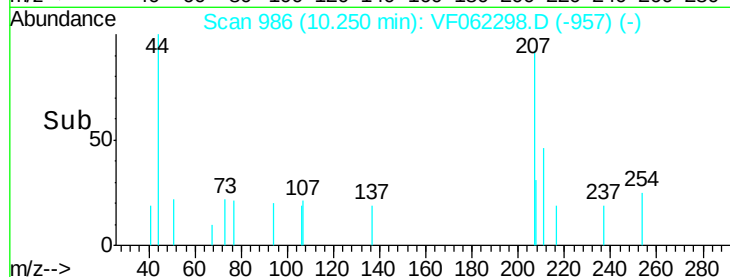
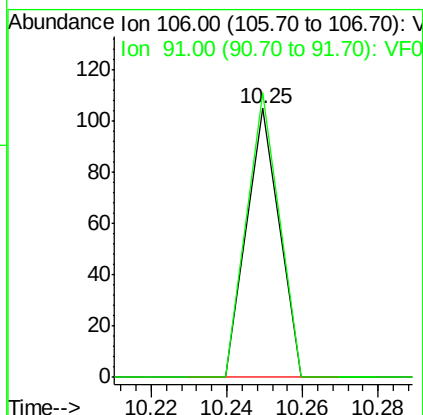
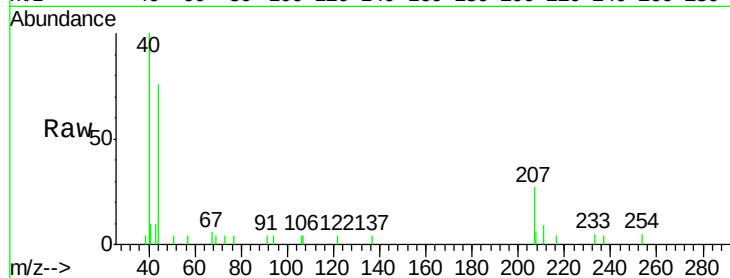
Time--> 10.05 10.10



#68
m/p-Xylenes
Concen: 80.644 ug/l
RT: 10.25 min Scan# 986
Delta R.T. -0.01 min
Lab File: VF062298.D
Acq: 25 Apr 2019 18:04

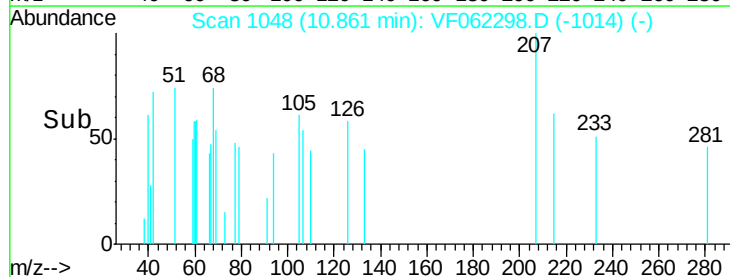
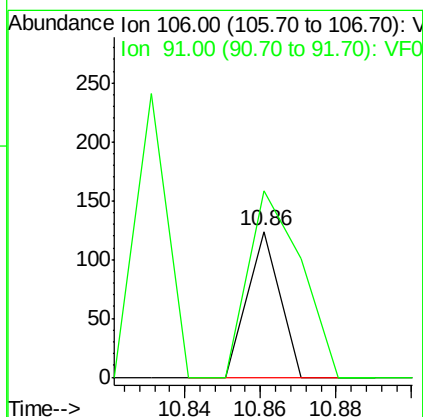
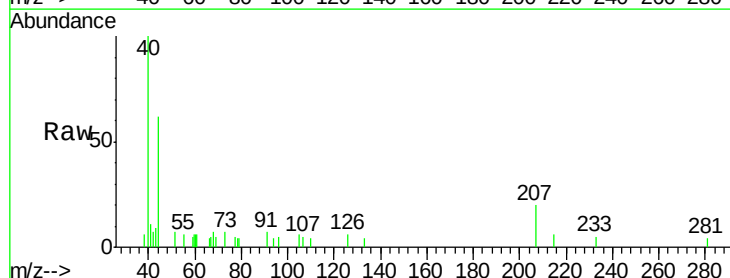
Instrument :
MSVOA_F
ClientSampleId :
C-2_042419RE

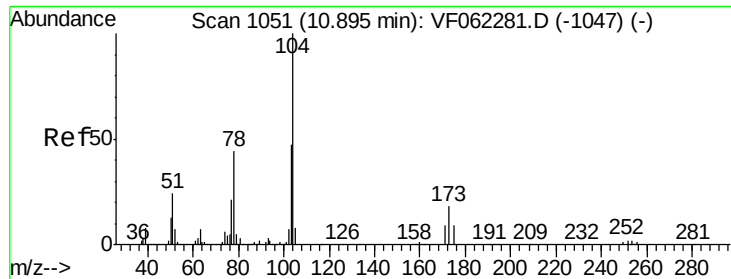
Tot Ion:106 Resp: 62
Ion Ratio Lower Upper
106 100
91 106.5 158.3 237.5#



#69
o-Xylene
Concen: 84.989 ug/l
RT: 10.86 min Scan# 1048
Delta R.T. 0.03 min
Lab File: VF062298.D
Acq: 25 Apr 2019 18:04

Tgt Ion:106 Resp: 73
Ion Ratio Lower Upper
106 100
91 209.6 110.0 330.0





#70

Stvrene

Concen: 62.818 ug/l

RT: 10.78 min Scan# 1040

Delta R.T. -0.11 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

C-2_042419RE

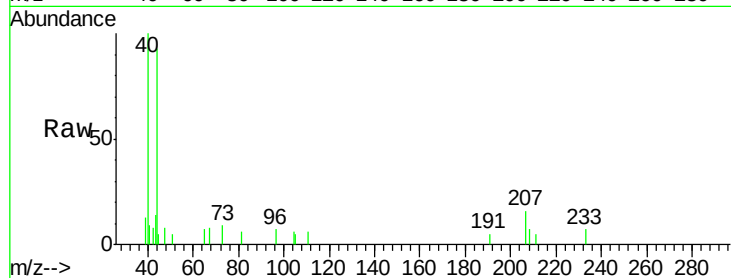
Tot Ion:104 Resp: 78

Ion Ratio Lower Upper

104 100

78 93.6 35.9 53.9#

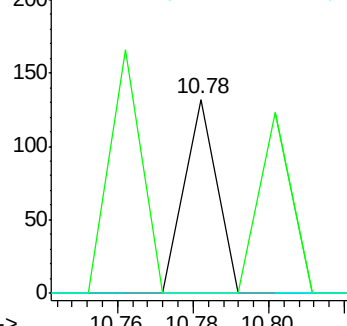
103 0.0 37.5 56.3#



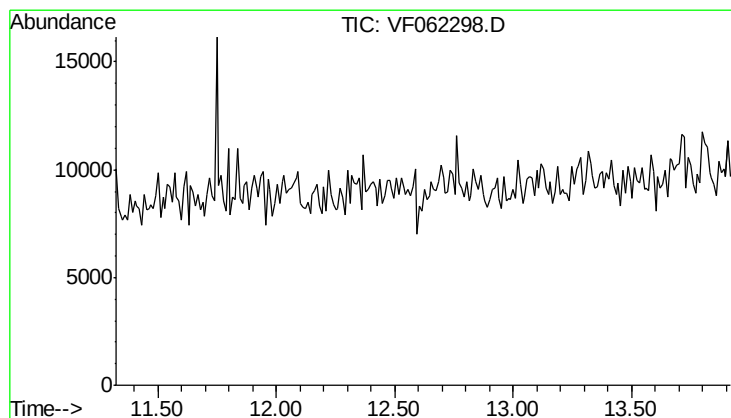
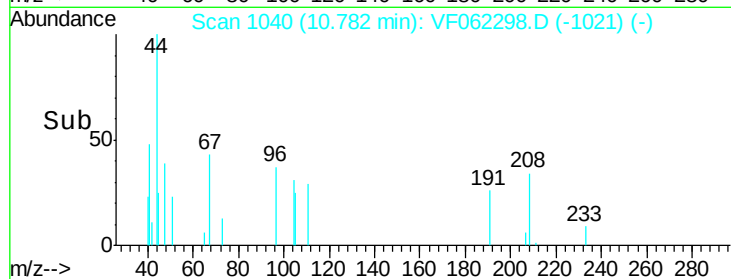
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 12.62 min

Lab File: VF062298.D

Acq: 25 Apr 2019 18:04

Tgt Ion: 152

Sig Exp Ratio

152 100

115 51.2

150 165.3

