

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042519\
 Data File : VF062296.D
 Acq On : 25 Apr 2019 17:09
 Operator : FY/SY
 Sample : K2554-01RE
 Misc : 5.10g/5mL/MSVOA F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RT3860RE

Quant Time: Apr 26 01:09:54 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	5.01	168	73	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.79
63) Chlorobenzene-d5	10.10	117	66	50.00	ug/l	0.18
72) 1,4-Dichlorobenzene-d4	12.57	152	74	50.00	ug/l	-0.05

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	77	130.22	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	260.44%	
35) Dibromofluoromethane	4.36	113	66	0.00	ug/l	0.03
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.72	98	183	0.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.53	95	76	0.00	ug/l	0.03
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	76	87.607	ug/l #	40
3) Chloromethane	1.13	50	61	83.467	ug/l #	44
4) Vinyl Chloride	1.16	62	219	316.403	ug/l #	20
5) Bromomethane	1.40	94	202	429.747	ug/l #	6
6) Chloroethane	1.43	64	74	243.888	ug/l #	42
7) Trichlorofluoromethane	1.49	101	95	86.375	ug/l #	15
8) Diethyl Ether	1.80	74	126	632.358	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.09	101	60	86.927	ug/l #	19
10) Methyl Iodide	2.17	142	98	81.227	ug/l #	6
11) Tert butyl alcohol	2.74	59	289	8079.616	ug/l #	1
12) 1,1-Dichloroethene	1.83	96	582	945.015	ug/l #	1
13) Acrolein	2.05	56	219	6323.216	ug/l #	7
14) Allyl chloride	2.17	41	109	162.626	ug/l #	28
15) Acrylonitrile	3.05	53	60	605.640	ug/l #	1
16) Acetone	2.33	43	509	3844.649	ug/l #	24
17) Carbon Disulfide	1.95	76	83	51.208	ug/l #	1
18) Methyl Acetate	2.44	43	837	3613.245	ug/l #	87
19) Methyl tert-butyl Ether	2.52	73	1163	990.546	ug/l #	64
20) Methylene Chloride	2.33	84	68	128.592	ug/l #	2
21) trans-1,2-Dichloroethene	2.35	96	137	225.096	ug/l #	1
22) Diisopropyl ether	2.92	45	63	34.916	ug/l #	2
23) Vinyl Acetate	3.32	43	755	943.600	ug/l #	78
24) 1,1-Dichloroethane	3.00	63	146	141.768	ug/l #	89
25) 2-Butanone	4.50	43	1043	4968.502	ug/l #	57
26) 2,2-Dichloropropane	3.68	77	309	577.780	ug/l	87
27) cis-1,2-Dichloroethene	3.56	96	59	76.549	ug/l	71
28) Bromochloromethane	3.88	49	63	145.167	ug/l #	2
29) Tetrahydrofuran	4.23	42	130	1409.381	ug/l #	37
30) Chloroform	3.94	83	208	160.844	ug/l #	18
31) Cyclohexane	3.82	56	142	144.907	ug/l #	3
32) 1,1,1-Trichloroethane	4.27	97	81	79.778	ug/l #	30
65) Chlorobenzene	10.08	112	66	54.723	ug/l #	41
66) 1,1,1,2-Tetrachloroethane	10.05	131	64	112.658	ug/l #	1
67) Ethyl Benzene	9.93	91	159	75.831	ug/l #	43

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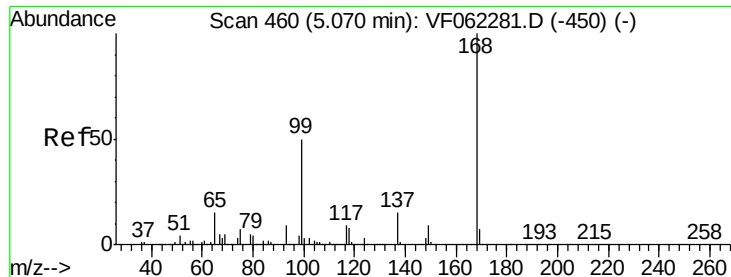
Instrument :
 MSVOA_F
 ClientSampleId :
 RT3860RE

Quant Time: Apr 26 01:09:54 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)

68) m/p-Xylenes	10.07	106	71	90.951	ug/l #	1
69) o-Xylene	10.80	106	70	80.261	ug/l #	27
70) Styrene	10.80	104	99	78.523	ug/l #	72
71) Bromoform	10.62	173	60	187.633	ug/l #	27
73) Isopropylbenzene	11.21	105	66	13.018	ug/l #	50
74) N-amyl acetate	11.42	43	1005	860.299	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	11.78	83	70	86.902	ug/l #	75
76) 1,2,3-Trichloropropane	11.73	75	174	304.460	ug/l #	100
78) n-propylbenzene	11.67	91	328	61.483	ug/l #	52
79) 2-Chlorotoluene	11.61	91	131	40.767	ug/l	81
80) 1,3,5-Trimethylbenzene	11.71	105	80	18.691	ug/l	65
81) trans-1,4-Dichloro-2-buten	12.11	75	63	246.615	ug/l #	1
82) 4-Chlorotoluene	11.95	91	215	67.618	ug/l #	40
83) tert-Butylbenzene	12.25	119	66	15.025	ug/l #	18
84) 1,2,4-Trimethylbenzene	12.25	105	154	37.150	ug/l #	29
85) sec-Butylbenzene	12.35	105	61	11.150	ug/l #	56
86) p-Isopropyltoluene	12.62	119	69	14.067	ug/l #	11
87) 1,3-Dichlorobenzene	12.48	146	67	29.879	ug/l #	13
88) 1,4-Dichlorobenzene	12.48	146	67	31.513	ug/l #	13
89) n-Butylbenzene	12.86	91	62	13.911	ug/l #	52
90) Hexachloroethane	12.96	117	148	120.370	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	13.65	75	67	412.310	ug/l #	1
95) Naphthalene	14.49	128	76	25.942	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.06 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

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MSVOA_F

ClientSampleId :

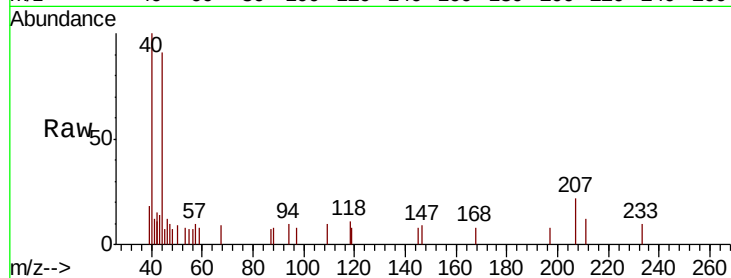
RT3860RE

Tot Ion:168 Resp: 73

Ion Ratio Lower Upper

168 100

99 0.0 40.0 60.0#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.01

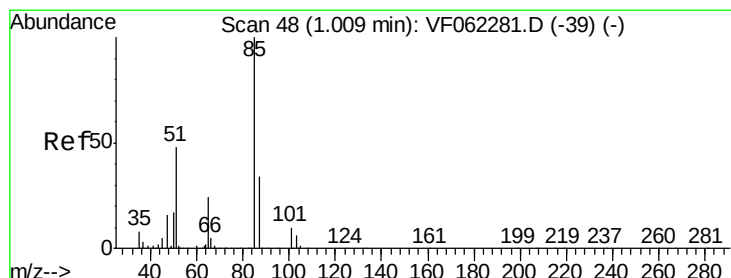
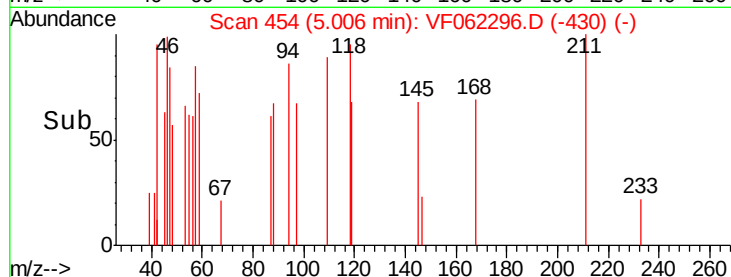
100

50

0

4.98 5.00 5.02 5.04

Time-->



#2

Dichlorodifluoromethane

Concen: 87.607 ug/l

RT: 0.99 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF062296.D

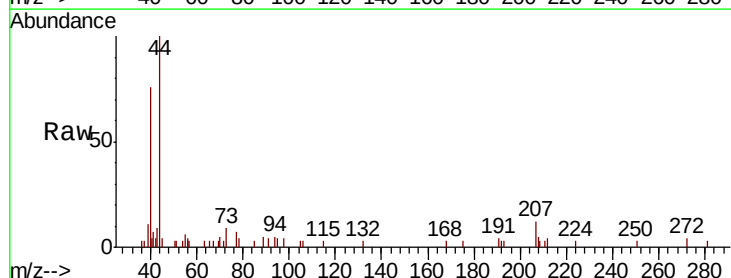
Acq: 25 Apr 2019 17:09

Tgt Ion: 85 Resp: 76

Ion Ratio Lower Upper

85 100

87 0.0 17.1 51.3#



Abundance Ion 84.90 (84.60 to 85.60): VF0

150 Ion 86.90 (86.60 to 87.60): VF0

0.99

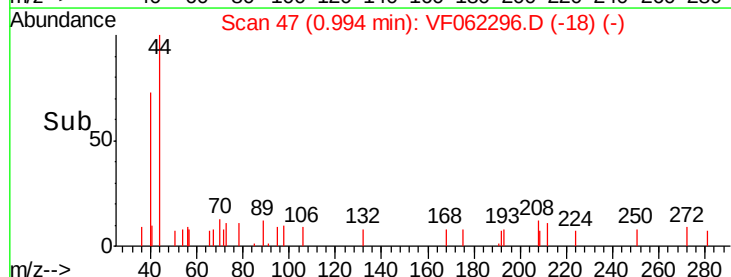
100

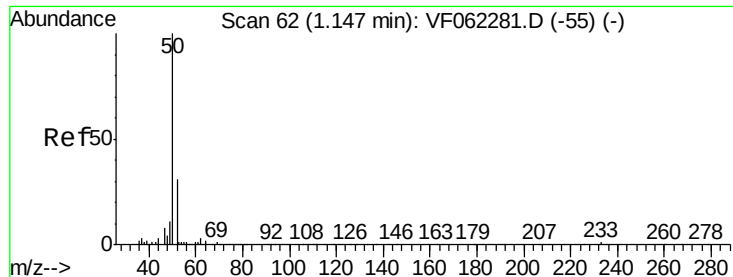
50

0

0.96 0.98 1.00 1.02

Time-->





#3

Chloromethane

Concen: 83.467 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.01 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

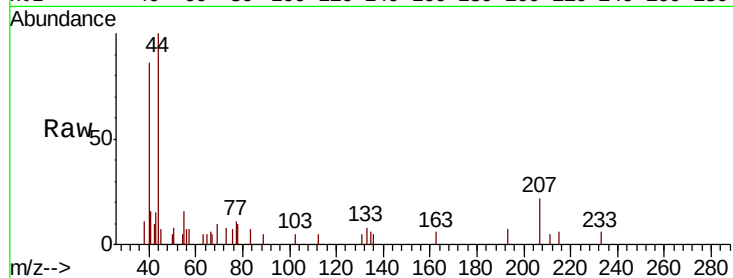
RT3860RE

Tot Ion: 50 Resp: 61

Ion Ratio Lower Upper

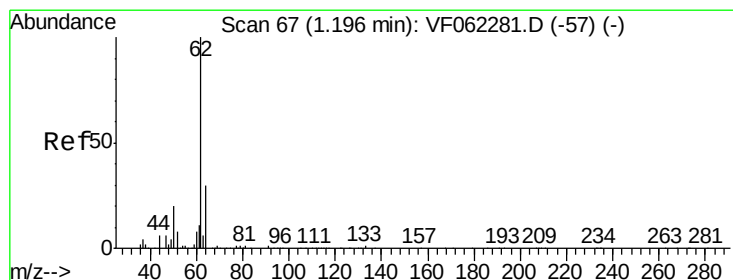
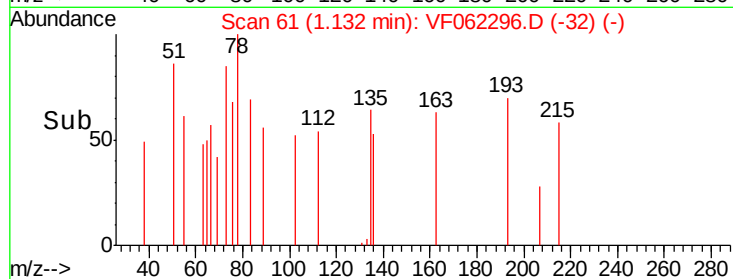
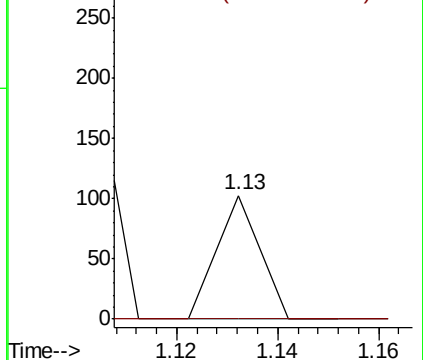
50 100

52 0.0 24.2 36.4#



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0



#4

Vinyl Chloride

Concen: 316.403 ug/l

RT: 1.16 min Scan# 64

Delta R.T. -0.03 min

Lab File: VF062296.D

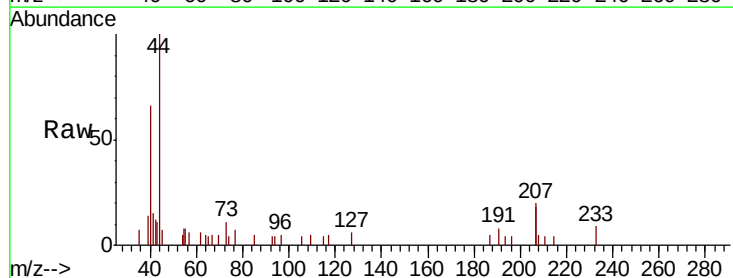
Acq: 25 Apr 2019 17:09

Tgt Ion: 62 Resp: 219

Ion Ratio Lower Upper

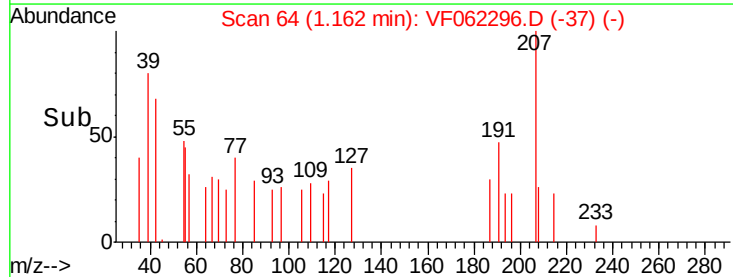
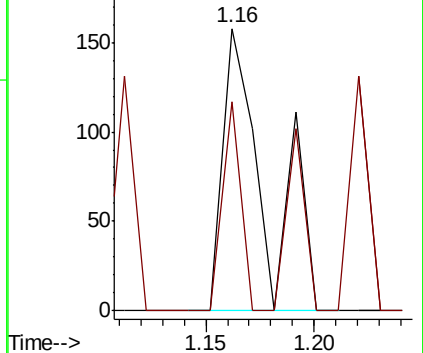
62 100

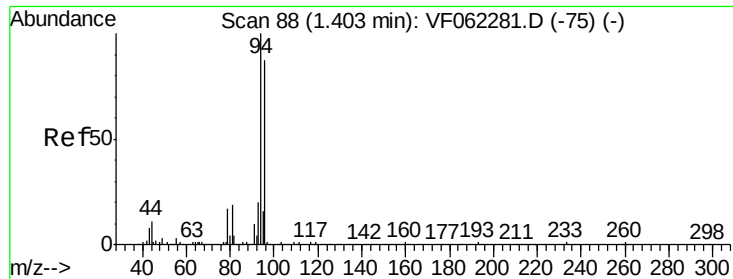
64 74.1 24.3 36.5#



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 63.90 (63.60 to 64.60): VF0





#5

Bromomethane

Concen: 429.747 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

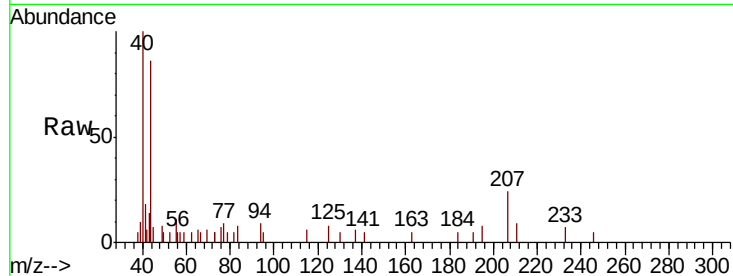
RT3860RE

Tot Ion: 94 Resp: 202

Ion Ratio Lower Upper

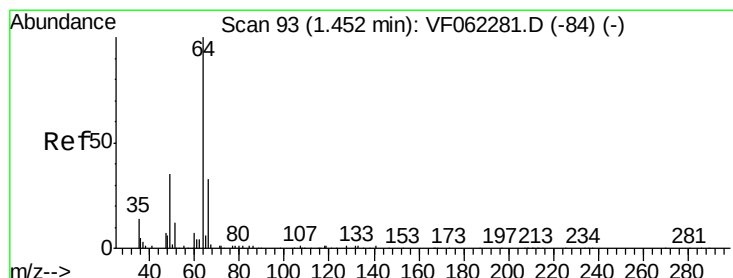
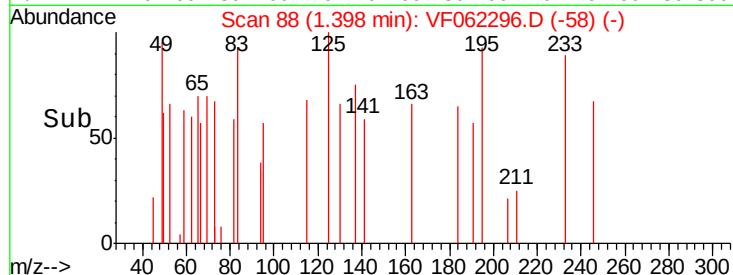
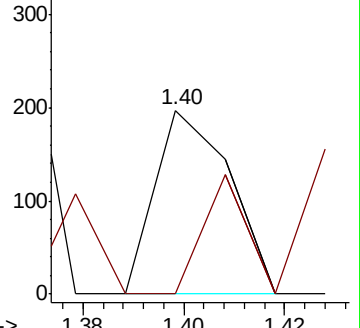
94 100

96 0.0 69.5 104.3#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



#6

Chloroethane

Concen: 243.888 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.02 min

Lab File: VF062296.D

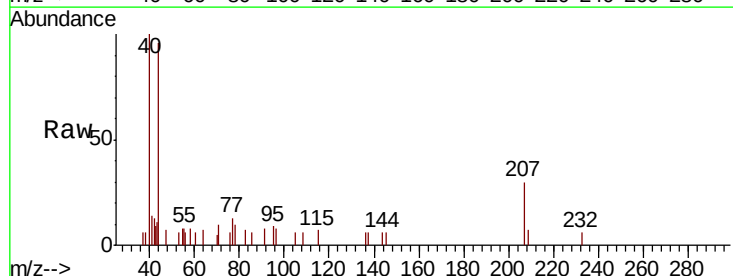
Acq: 25 Apr 2019 17:09

Tgt Ion: 64 Resp: 74

Ion Ratio Lower Upper

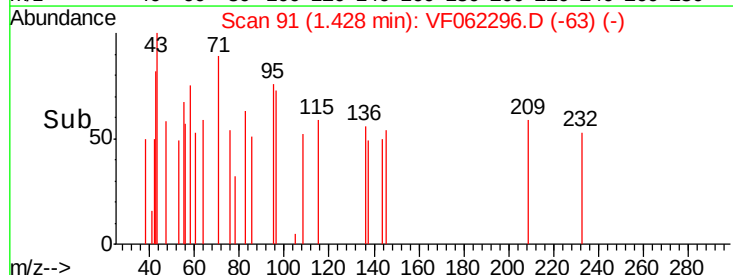
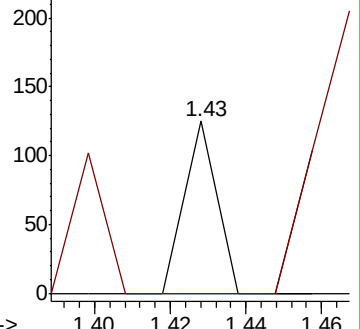
64 100

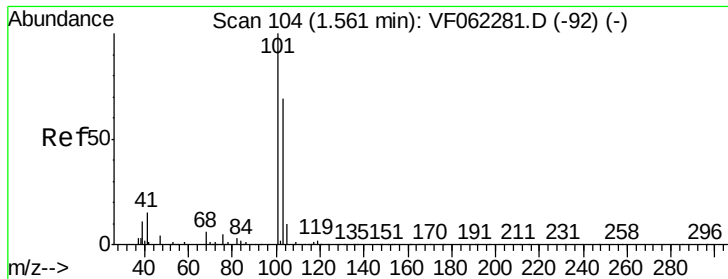
66 0.0 26.0 39.0#



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0



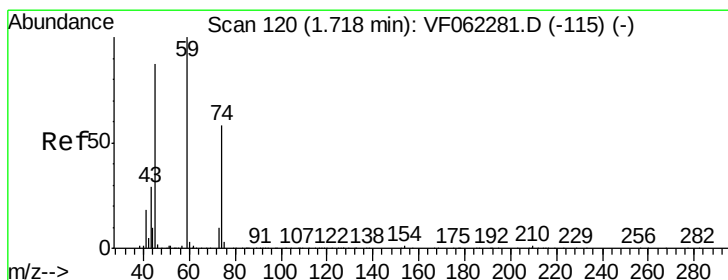
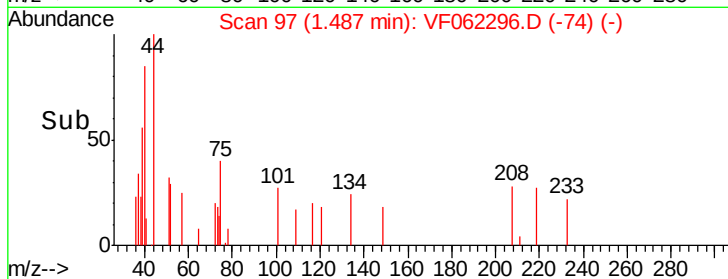
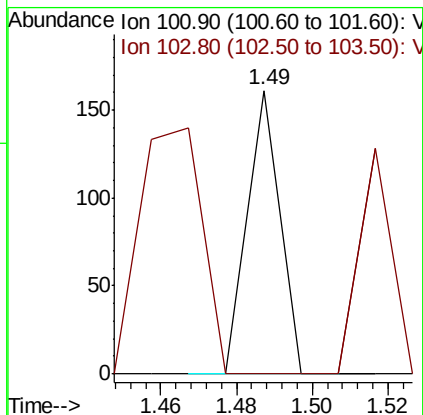
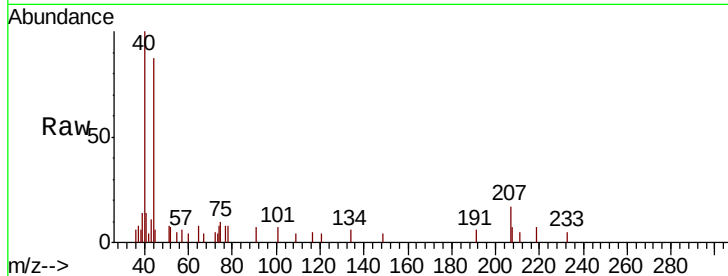


#7

Trichlorofluoromethane
Concen: 86.375 ug/l
RT: 1.49 min Scan# 97
Delta R.T. -0.07 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

Instrument :
MSVOA_F
ClientSampleId :
RT3860RE

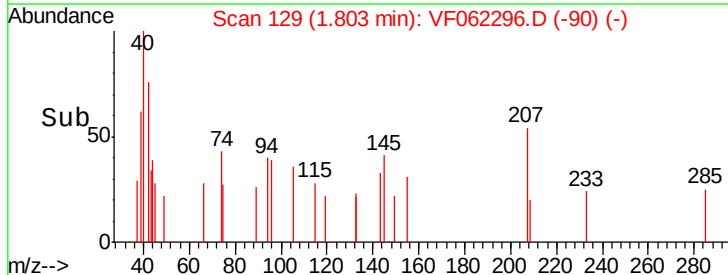
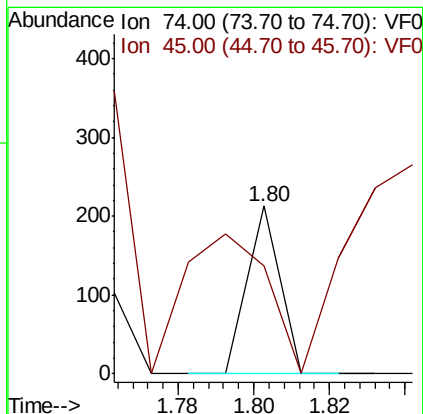
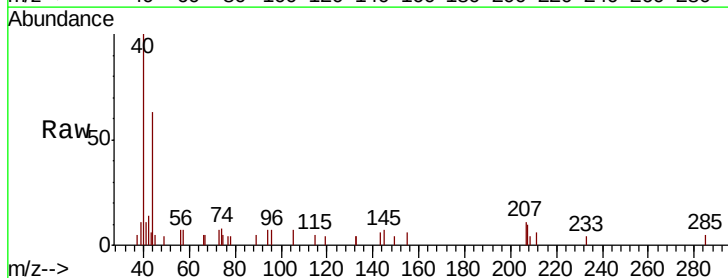
Tot Ion:101 Resp: 95
Ion Ratio Lower Upper
101 100
103 0.0 55.0 82.6#

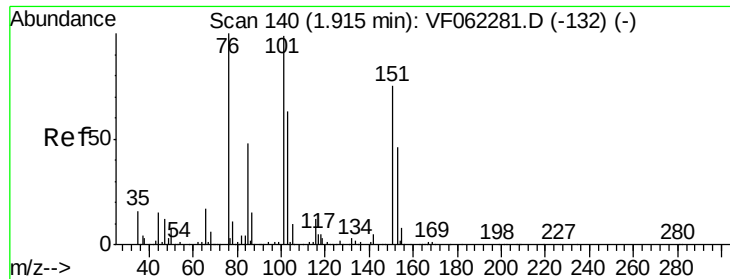


#8

Diethyl Ether
Concen: 632.358 ug/l
RT: 1.80 min Scan# 129
Delta R.T. 0.08 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

Tgt Ion: 74 Resp: 126
Ion Ratio Lower Upper
74 100
45 147.6 74.0 222.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 86.927 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.17 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampled :

RT3860RE

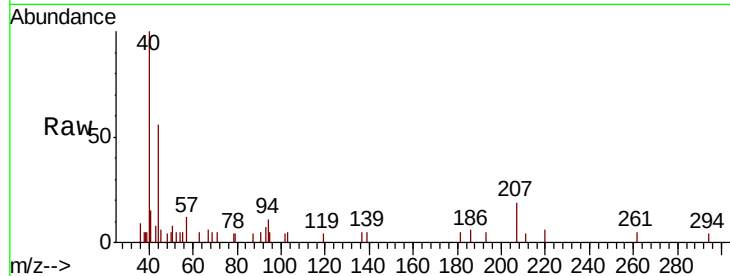
Tot Ion:101 Resp: 60

Ion Ratio Lower Upper

101 100

85 0.0 36.5 54.7#

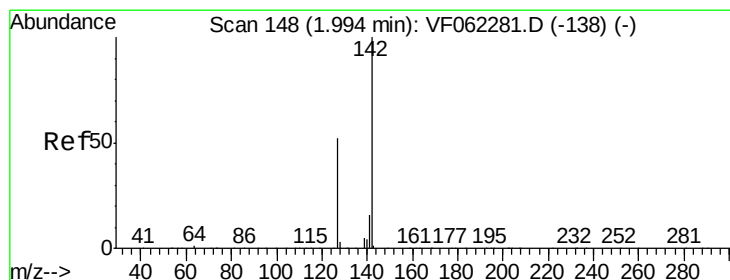
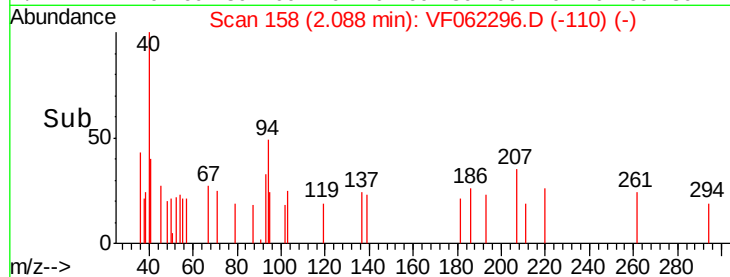
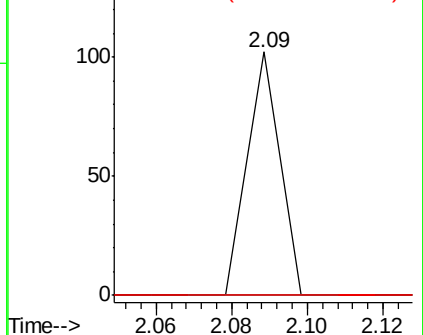
151 0.0 59.2 88.8#



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



#10

Methyl Iodide

Concen: 81.227 ug/l

RT: 2.17 min Scan# 166

Delta R.T. 0.17 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

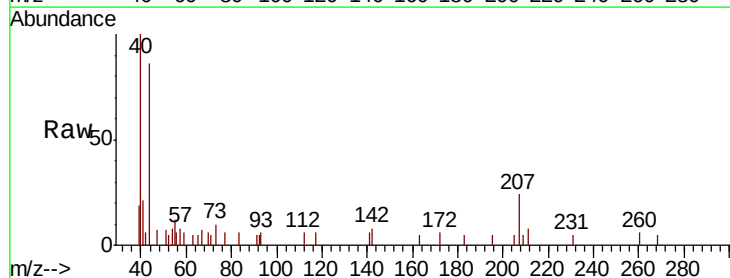
Tgt Ion:142 Resp: 98

Ion Ratio Lower Upper

142 100

127 0.0 43.0 64.4#

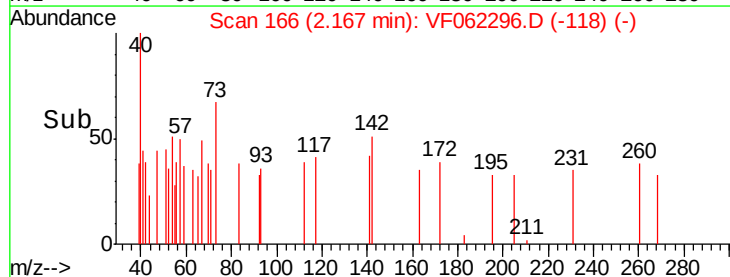
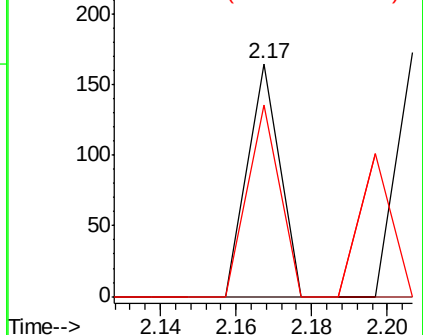
141 81.6 12.3 18.5#

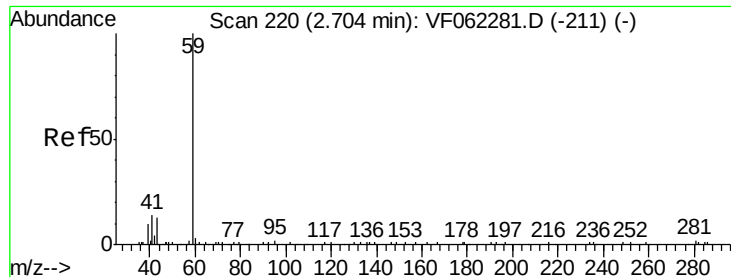


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



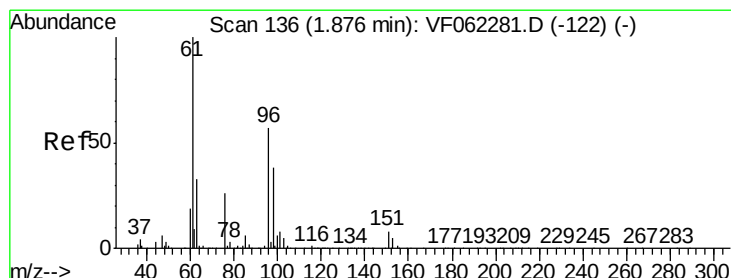
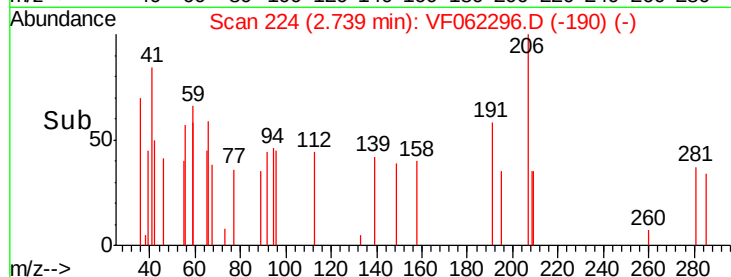
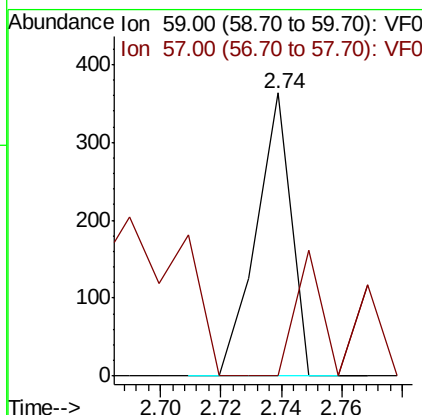
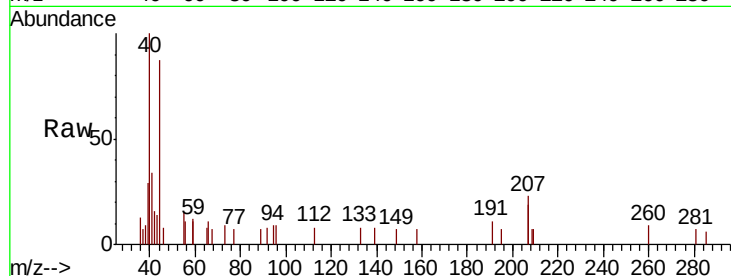


#11

Tert butyl alcohol
Concen: 8079.616 ug/l
RT: 2.74 min Scan# 224
Delta R.T. 0.03 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

Instrument :
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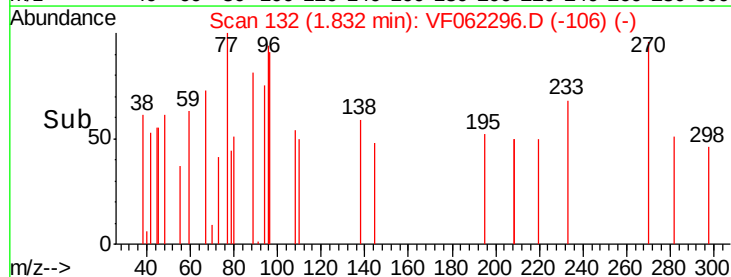
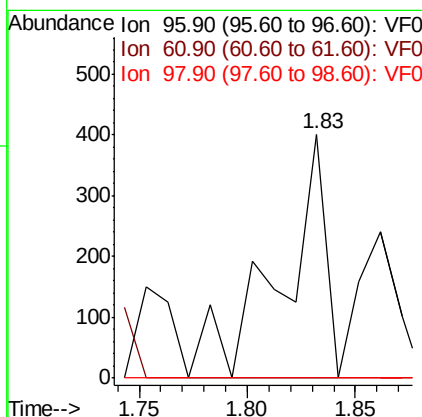
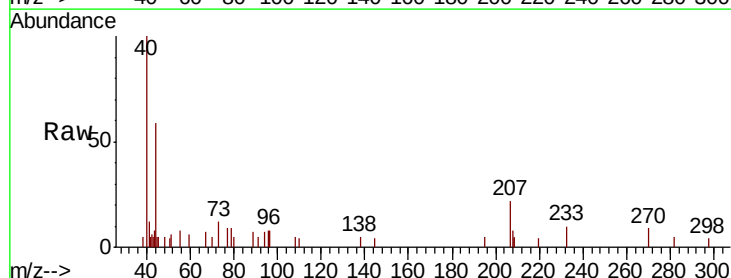
Tot Ion: 59 Resp: 289
Ion Ratio Lower Upper
59 100
57 57.1 8.8 13.2#

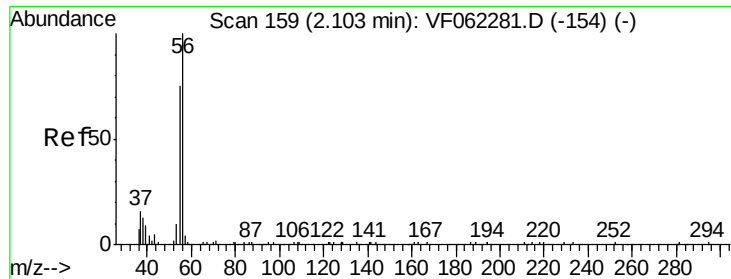


#12

1,1-Dichloroethene
Concen: 945.015 ug/l
RT: 1.83 min Scan# 132
Delta R.T. -0.04 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

Tgt Ion: 96 Resp: 582
Ion Ratio Lower Upper
96 100
61 0.0 141.1 211.7#
98 0.0 53.4 80.0#

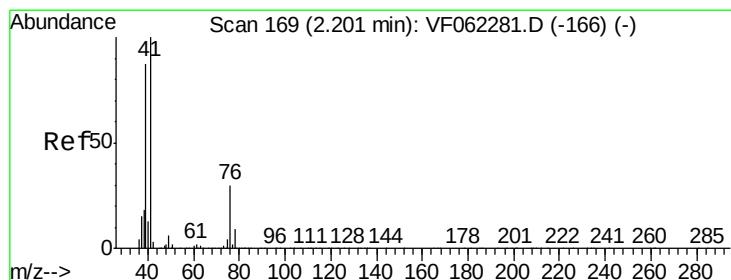
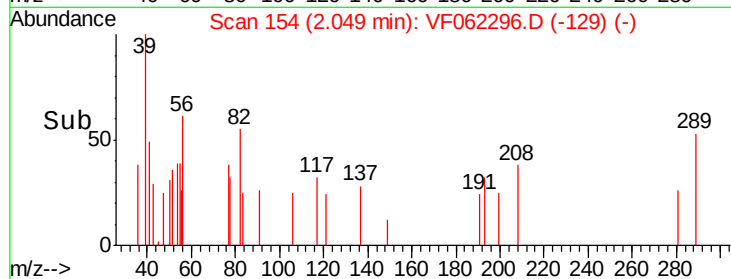
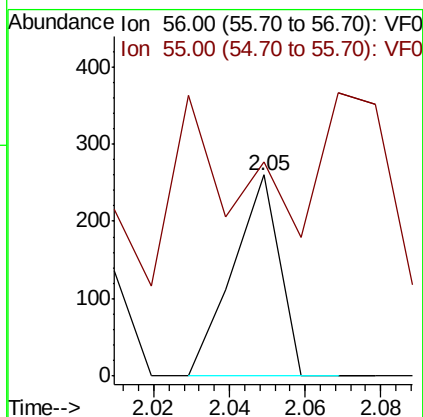
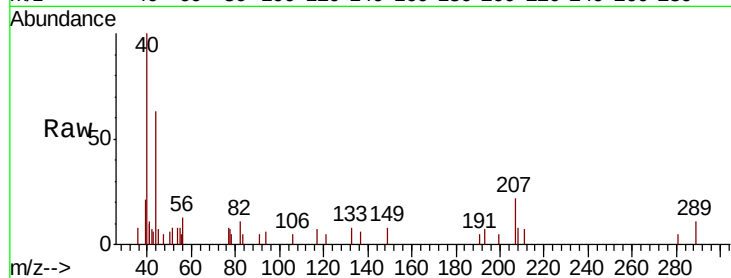




#13
Acrolein
Concen: 6323.216 ug/l
RT: 2.05 min Scan# 154
Delta R.T. -0.05 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

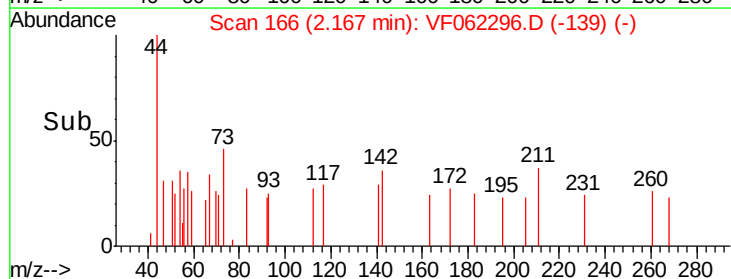
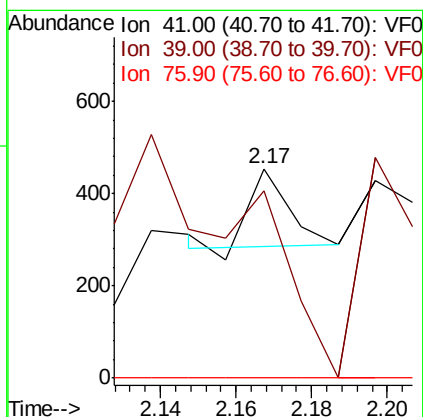
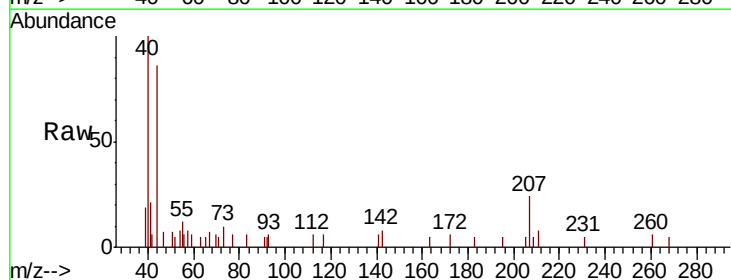
Instrument :
MSVOA_F
ClientSampleId :
RT3860RE

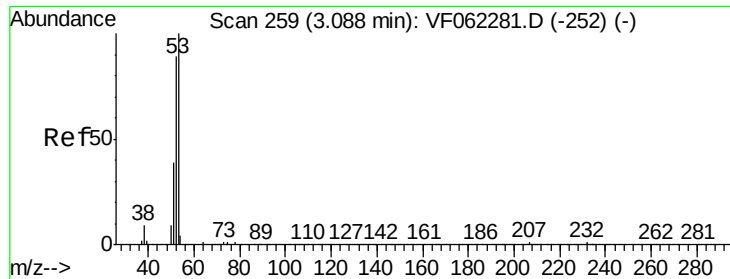
Tot Ion: 56 Resp: 219
Ion Ratio Lower Upper
56 100
55 158.4 62.3 93.5#



#14
Allyl chloride
Concen: 162.626 ug/l
RT: 2.17 min Scan# 166
Delta R.T. -0.03 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

Tgt Ion: 41 Resp: 109
Ion Ratio Lower Upper
41 100
39 0.0 50.3 75.5#
76 0.0 14.8 22.2#





#15

Acrylonitrile

Concen: 605.640 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.03 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

RT3860RE

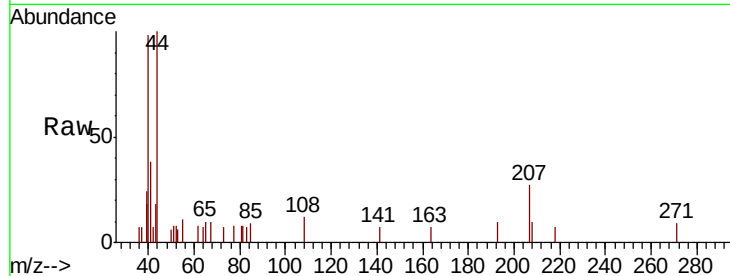
Tot Ion: 53 Resp: 60

Ion Ratio Lower Upper

53 100

52 221.7 70.6 105.8#

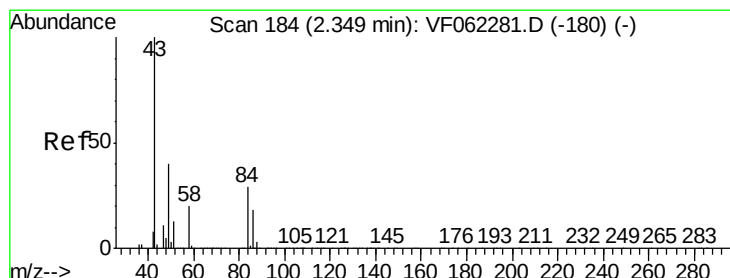
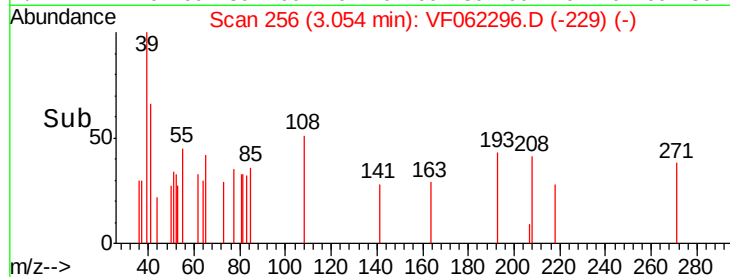
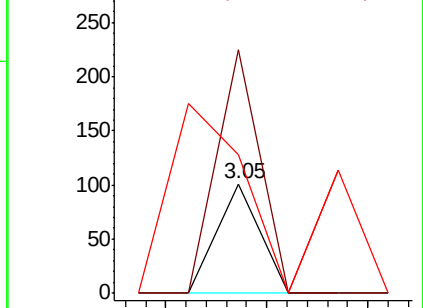
51 575.0 32.6 48.8#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 3844.649 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF062296.D

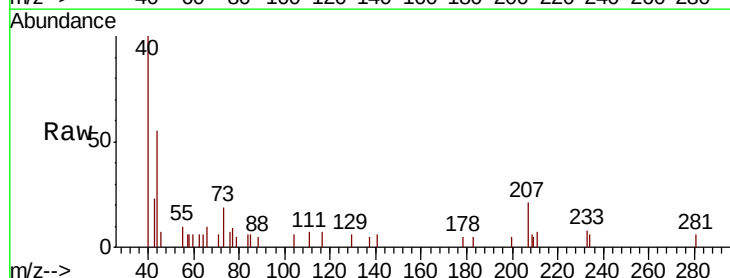
Acq: 25 Apr 2019 17:09

Tgt Ion: 43 Resp: 509

Ion Ratio Lower Upper

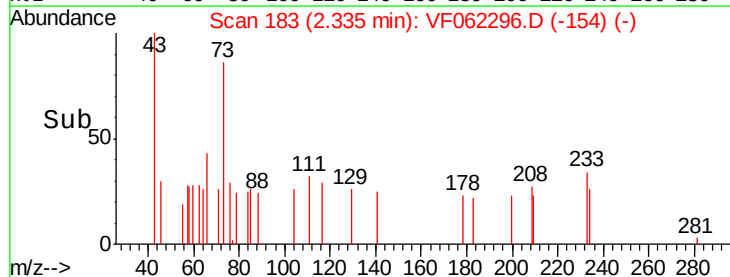
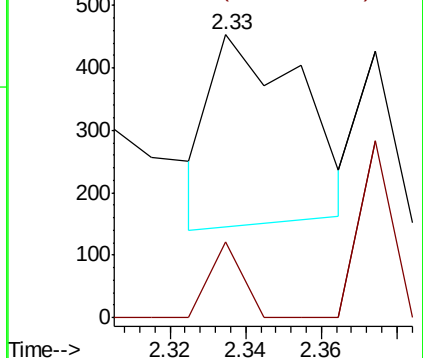
43 100

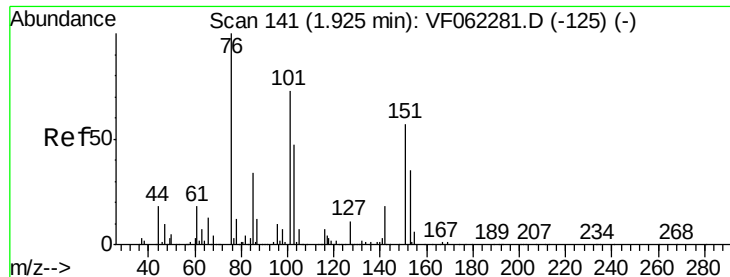
58 55.8 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 51.208 ug/l

RT: 1.95 min Scan# 144

Delta R.T. 0.03 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

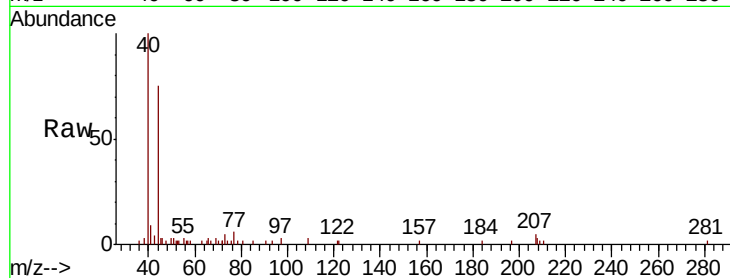
RT3860RE

Tot Ion: 76 Resp: 83

Ion Ratio Lower Upper

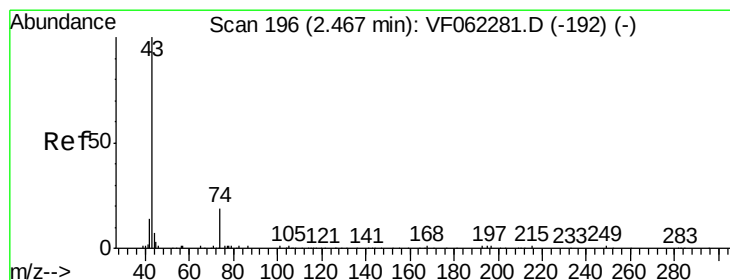
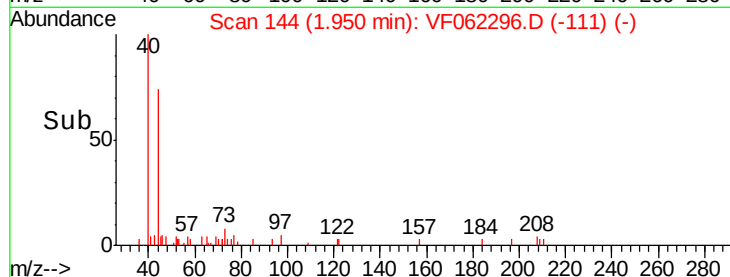
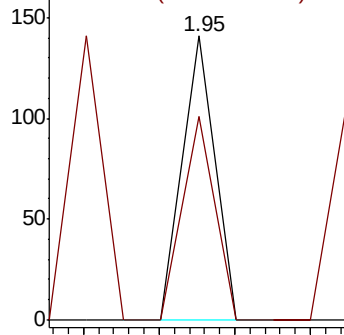
76 100

78 71.6 9.8 14.8#



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#18

Methyl Acetate

Concen: 3613.245 ug/l

RT: 2.44 min Scan# 194

Delta R.T. -0.02 min

Lab File: VF062296.D

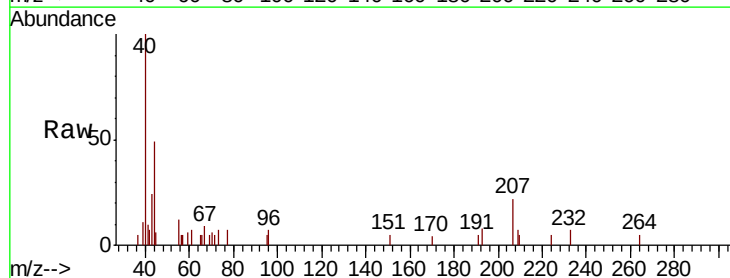
Acq: 25 Apr 2019 17:09

Tgt Ion: 43 Resp: 837

Ion Ratio Lower Upper

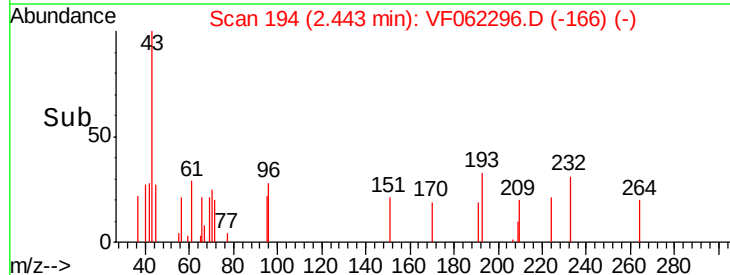
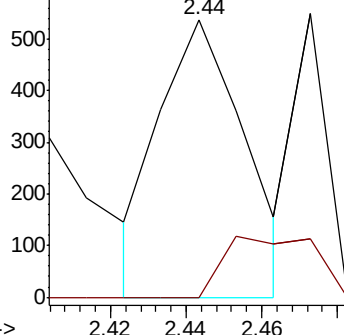
43 100

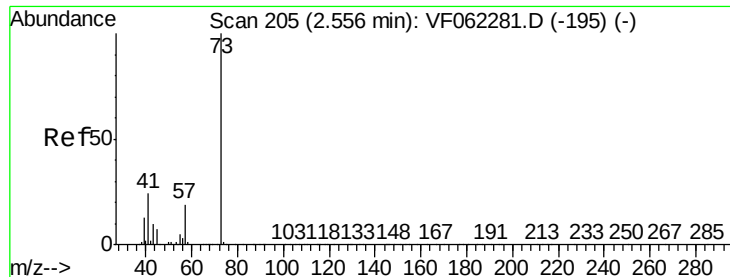
74 23.7 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



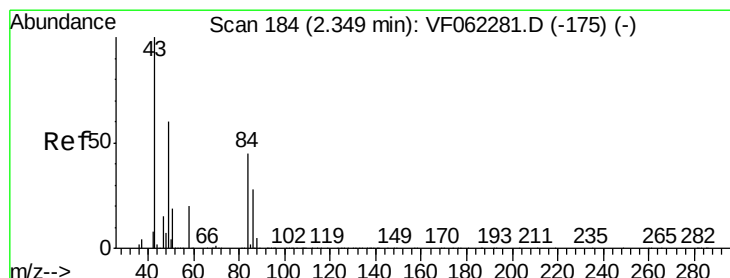
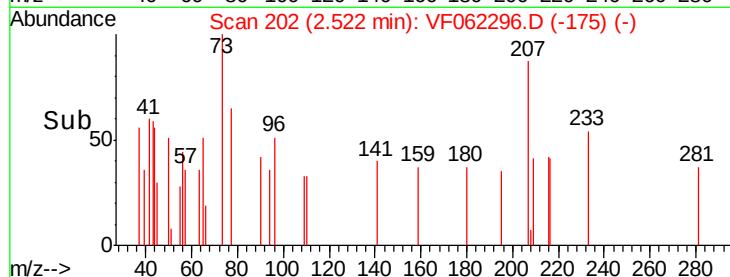
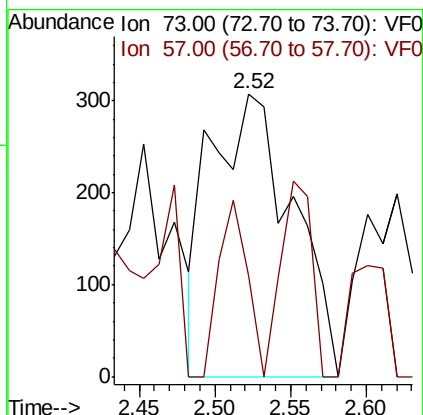
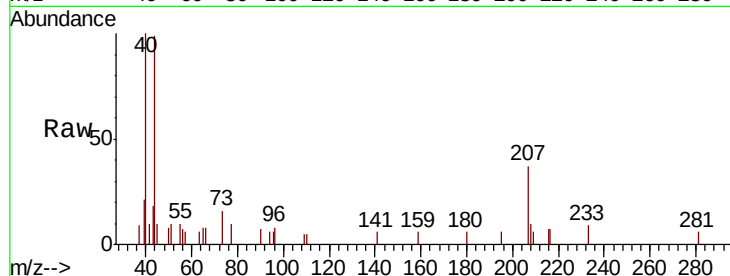


#19

Methyl tert-butyl Ether
 Concen: 990.546 ug/l
 RT: 2.52 min Scan# 202
 Delta R.T. -0.03 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Instrument :
 MSVOA_F
 ClientSampleId :
 RT3860RE

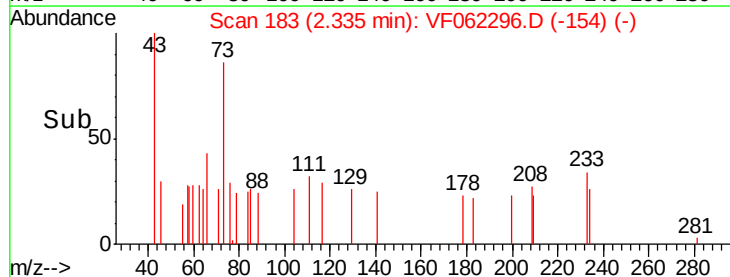
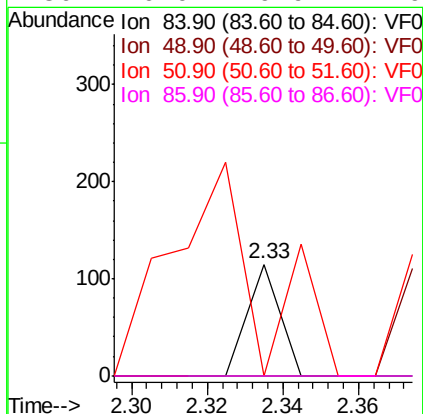
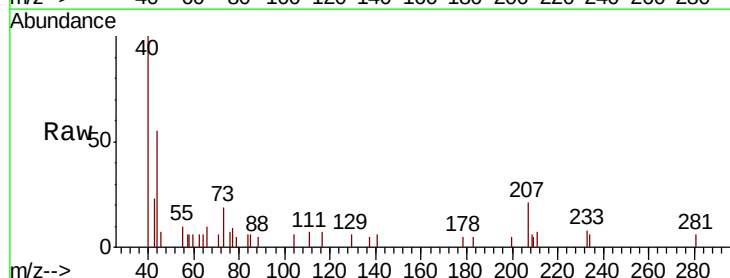
Tot Ion: 73 Resp: 1163
 Ion Ratio Lower Upper
 73 100
 57 35.7 15.5 23.3#

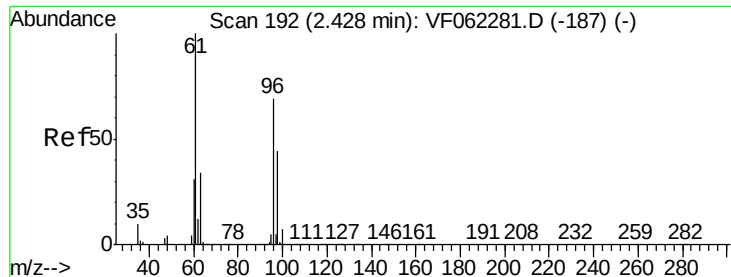


#20

Methylene Chloride
 Concen: 128.592 ug/l
 RT: 2.33 min Scan# 183
 Delta R.T. -0.01 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Tgt Ion: 84 Resp: 68
 Ion Ratio Lower Upper
 84 100
 49 0.0 112.1 168.1#
 51 0.0 35.9 53.9#
 86 0.0 49.9 74.9#





#21

trans-1,2-Dichloroethene

Concen: 225.096 ug/l

RT: 2.35 min Scan# 185

Delta R.T. -0.07 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

RT3860RE

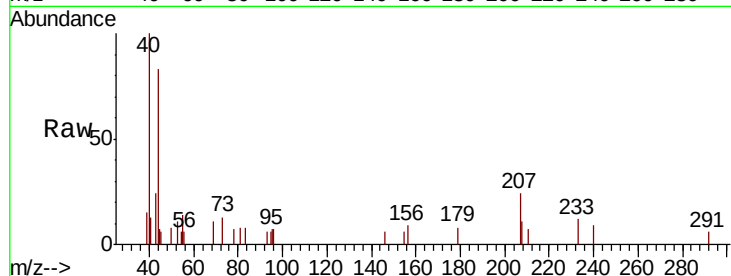
Tot Ion: 96 Resp: 137

Ion Ratio Lower Upper

96 100

61 0.0 116.2 174.2#

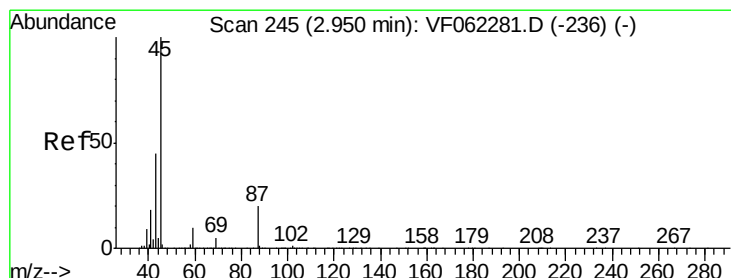
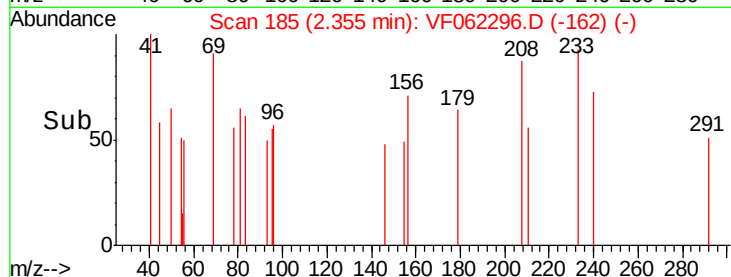
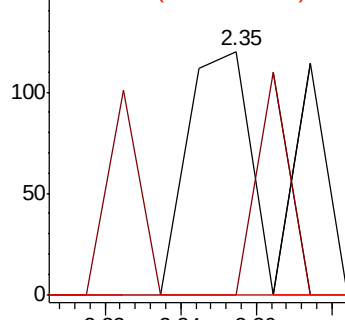
98 0.0 51.4 77.0#



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



#22

Diisopropyl ether

Concen: 34.916 ug/l

RT: 2.92 min Scan# 242

Delta R.T. -0.03 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Tgt Ion: 45 Resp: 63

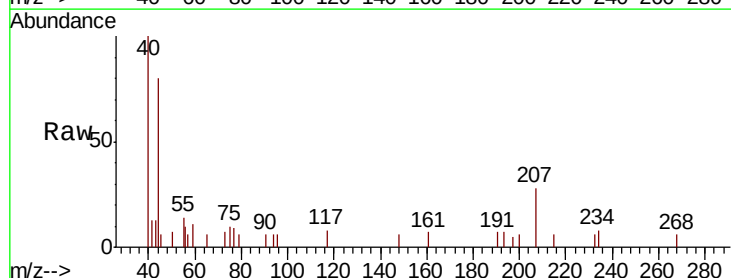
Ion Ratio Lower Upper

45 100

43 21.7 36.2 54.2#

87 0.0 15.8 23.6#

59 193.4 7.8 11.8#

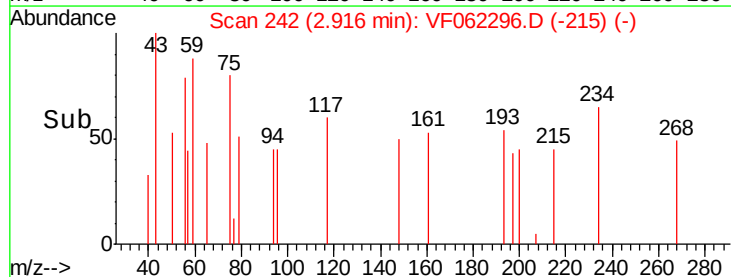
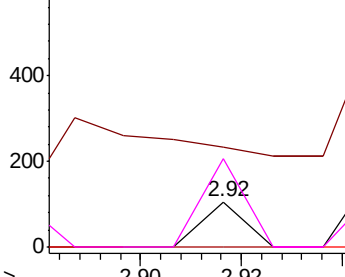


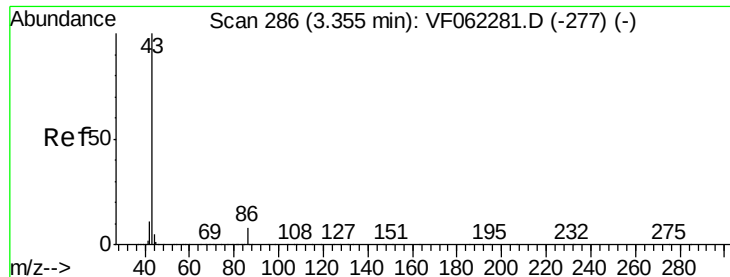
Abundance Ion 45.00 (44.70 to 45.70): VF0

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





#23

Vinyl Acetate

Concen: 943.600 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.03 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampled :

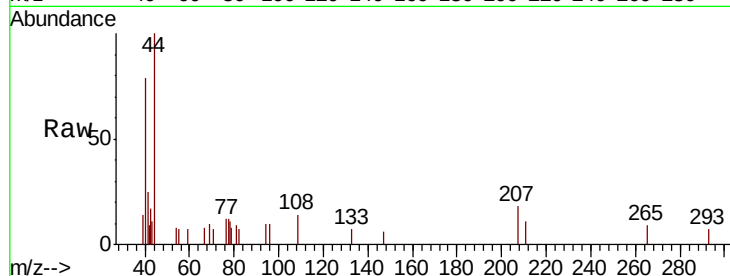
RT3860RE

Tot Ion: 43 Resp: 755

Ion Ratio Lower Upper

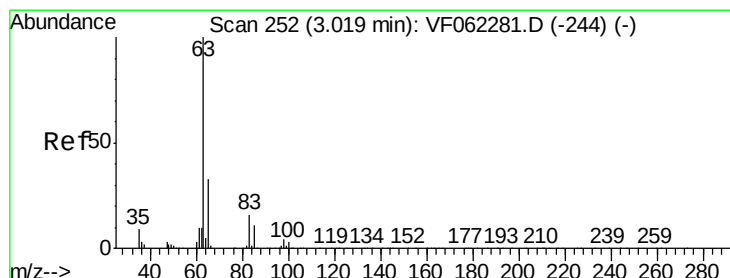
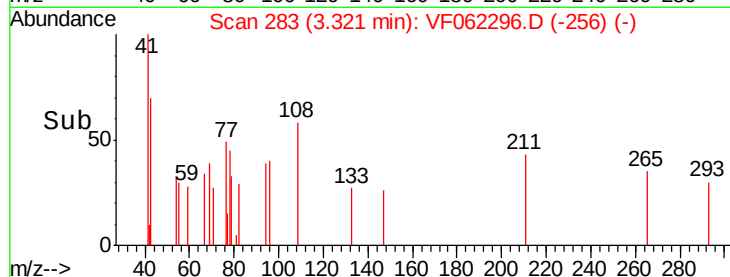
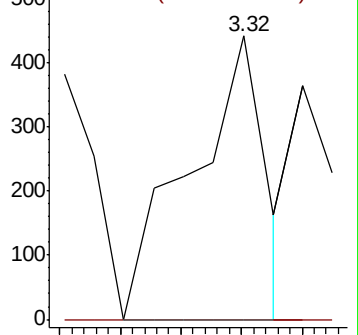
43 100

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: 141.768 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.02 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

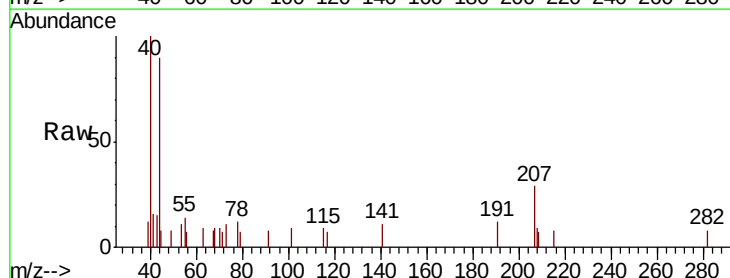
Tgt Ion: 63 Resp: 146

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.2#

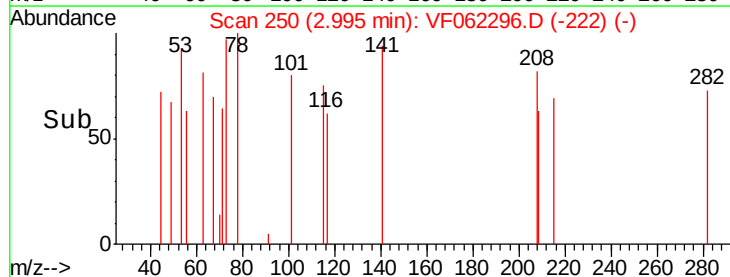
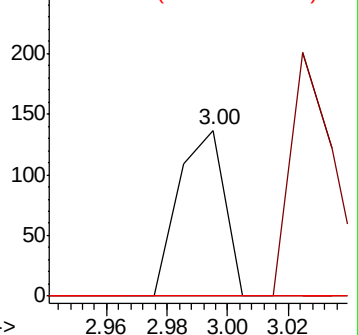
100 0.0 1.5 4.5#

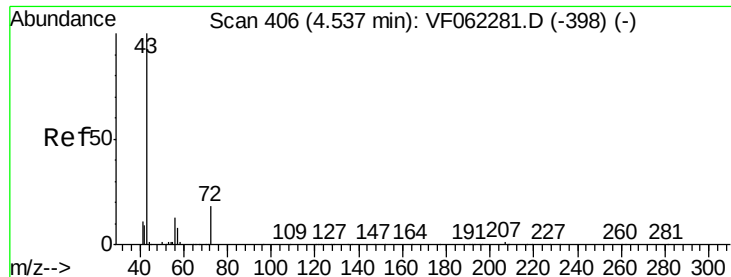


Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0





#25

2-Butanone

Concen: 4968.502 ug/l

RT: 4.50 min Scan# 403

Delta R.T. -0.03 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampled :

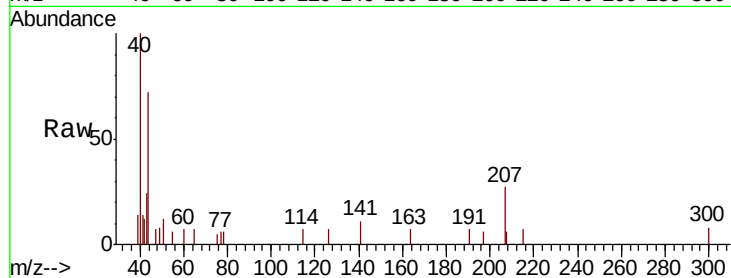
RT3860RE

Tot Ion: 43 Resp: 1043

Ion Ratio Lower Upper

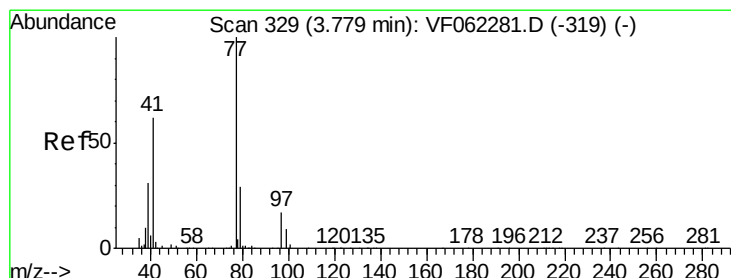
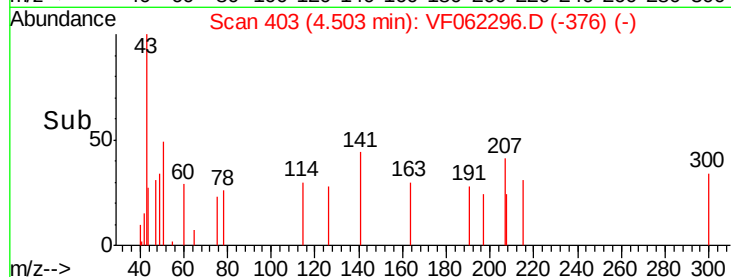
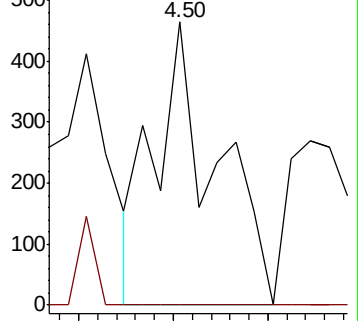
43 100

72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 577.780 ug/l

RT: 3.68 min Scan# 319

Delta R.T. -0.10 min

Lab File: VF062296.D

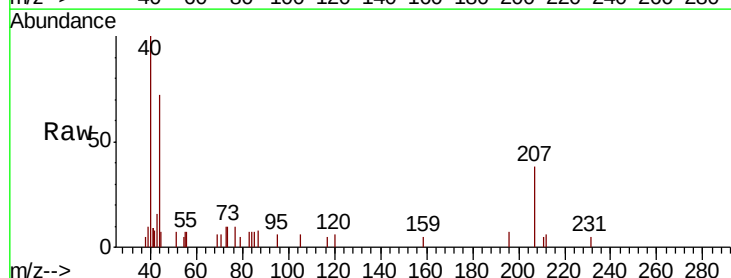
Acq: 25 Apr 2019 17:09

Tgt Ion: 77 Resp: 309

Ion Ratio Lower Upper

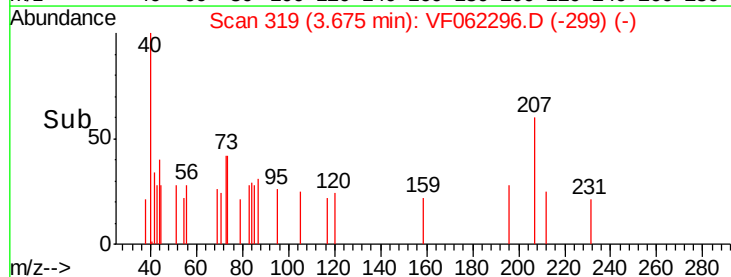
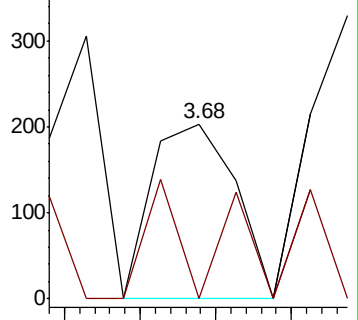
77 100

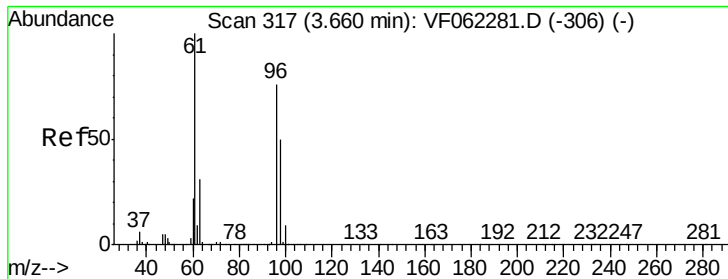
97 26.5 10.3 30.8



Abundance Ion 76.90 (76.60 to 77.60): VF0

Ion 96.90 (96.60 to 97.60): VF0



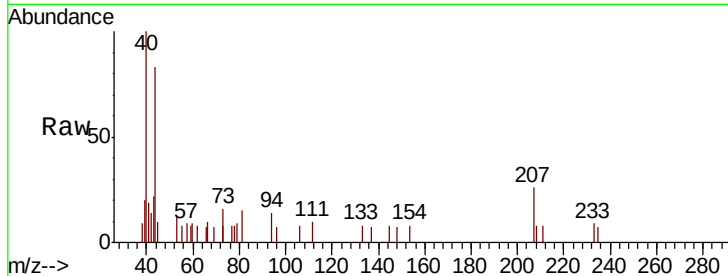


#27

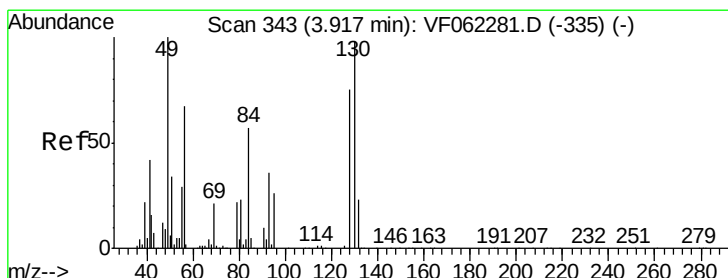
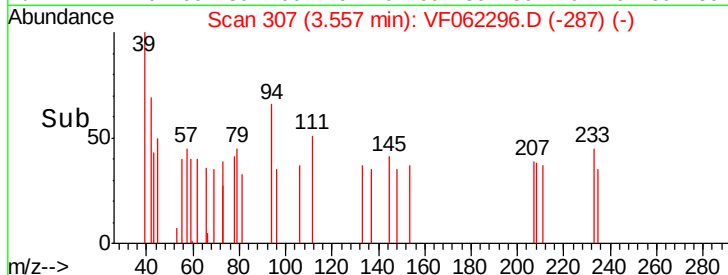
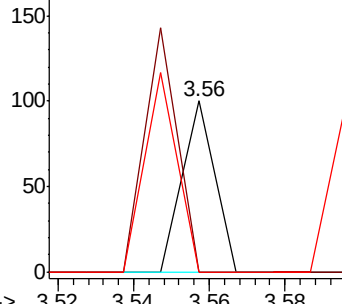
cis-1,2-Dichloroethene
 Concen: 76.549 ug/l
 RT: 3.56 min Scan# 307
 Delta R.T. -0.10 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Instrument :
 MSVOA_F
 ClientSampleId :
 RT3860RE

Tot Ion:	96	Resp:	59
Ion	Ratio	Lower	Upper
96	100		
61	144.1	0.0	257.6
98	116.9	0.0	137.4



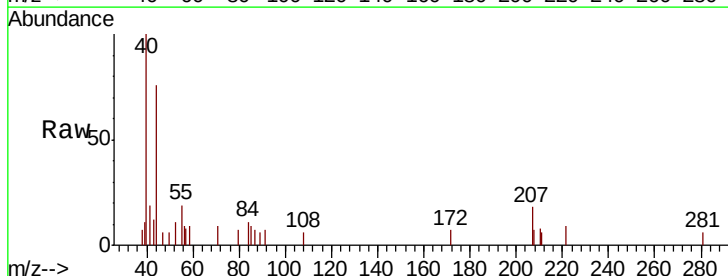
Abundance Ion 95.90 (95.60 to 96.60): VF0
 Ion 60.90 (60.60 to 61.60): VF0
 Ion 97.90 (97.60 to 98.60): VF0



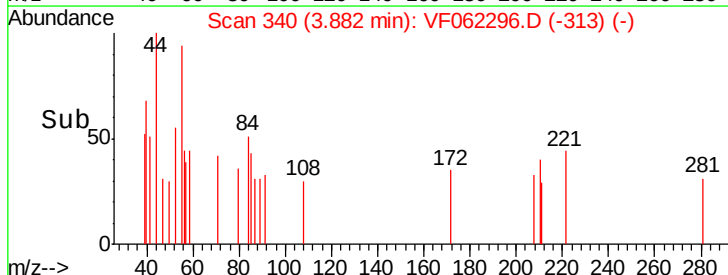
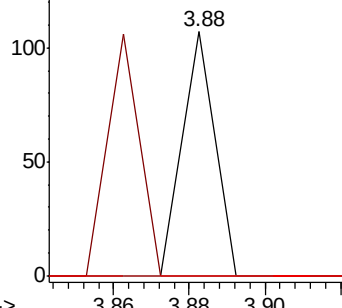
#28

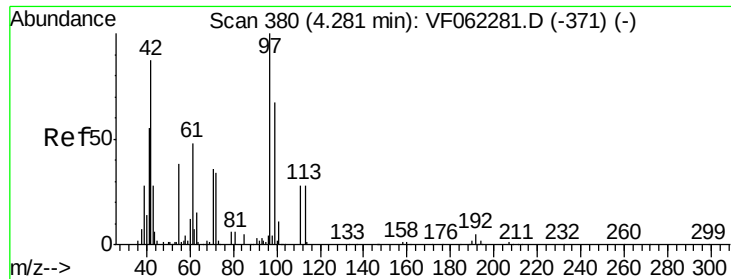
Bromochloromethane
 Concen: 145.167 ug/l
 RT: 3.88 min Scan# 340
 Delta R.T. -0.03 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Tgt Ion:	49	Resp:	63
Ion	Ratio	Lower	Upper
49	100		
129	100.0	0.0	0.0#
130	0.0	77.0	115.4#



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

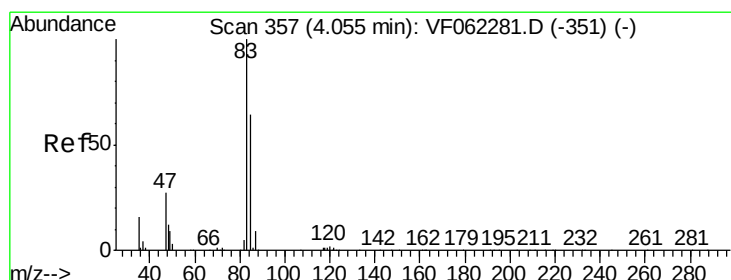
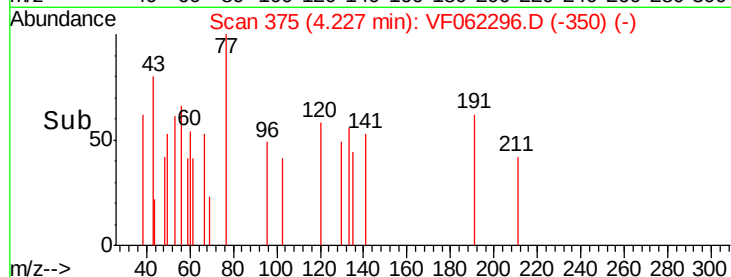
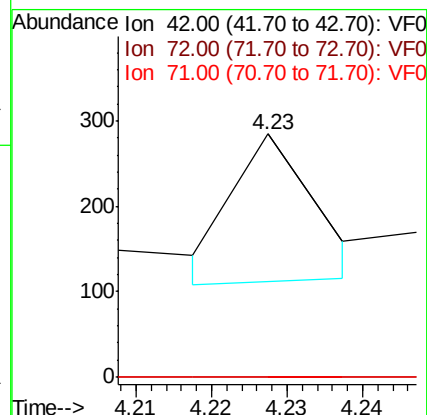
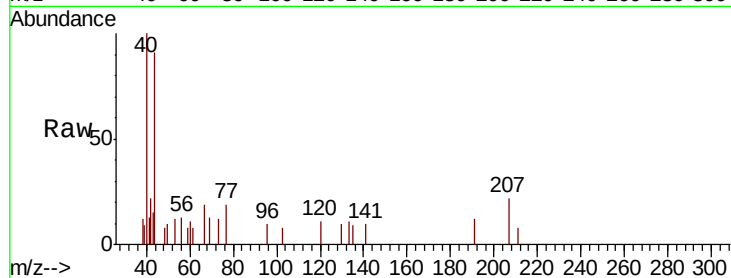




#29
Tetrahydrofuran
Concen: 1409.381 ug/l
RT: 4.23 min Scan# 375
Delta R.T. -0.05 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

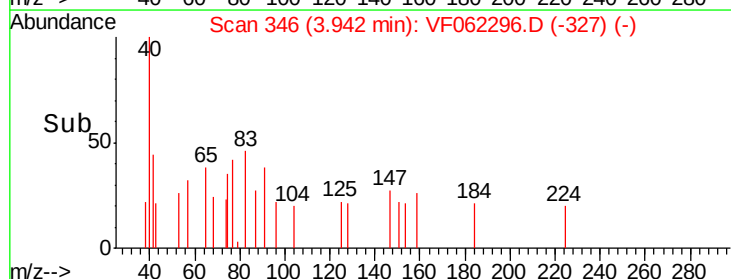
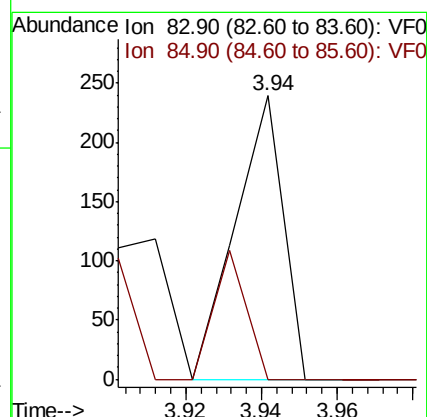
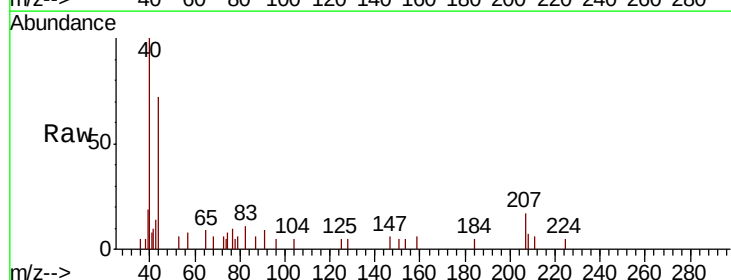
Instrument :
MSVOA_F
ClientSampleId :
RT3860RE

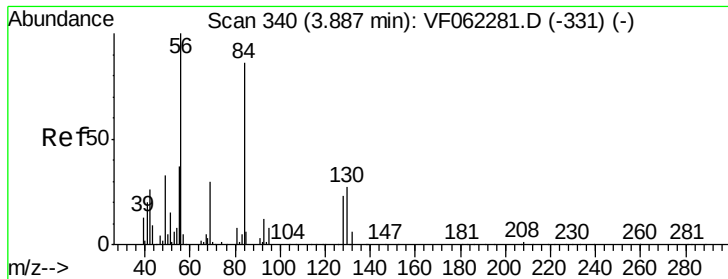
Tot Ion: 42 Resp: 130
Ion Ratio Lower Upper
42 100
72 0.0 29.3 43.9#
71 0.0 31.2 46.8#



#30
Chloroform
Concen: 160.844 ug/l
RT: 3.94 min Scan# 346
Delta R.T. -0.11 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

Tgt Ion: 83 Resp: 208
Ion Ratio Lower Upper
83 100
85 0.0 51.1 76.7#





#31

Cyclohexane

Concen: 144.907 ug/l

RT: 3.82 min Scan# 334

Delta R.T. -0.06 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

RT3860RE

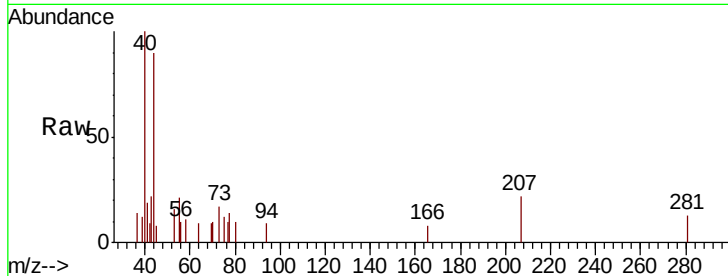
Tot Ion: 56 Resp: 142

Ion Ratio Lower Upper

56 100

69 88.0 24.3 36.5#

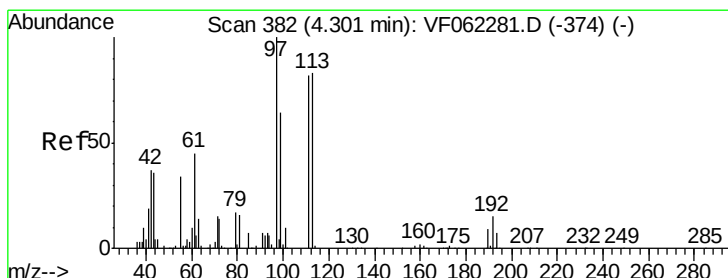
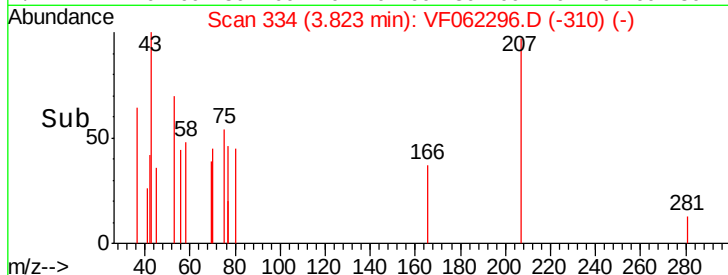
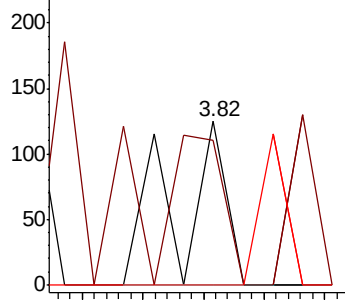
84 0.0 68.5 102.7#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 79.778 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.03 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

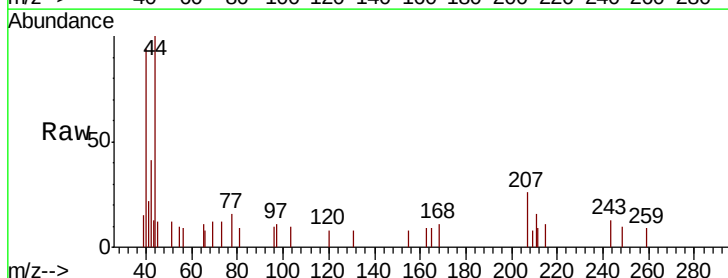
Tgt Ion: 97 Resp: 81

Ion Ratio Lower Upper

97 100

99 0.0 41.6 62.4#

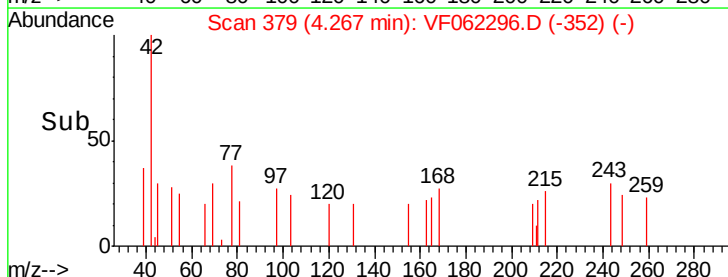
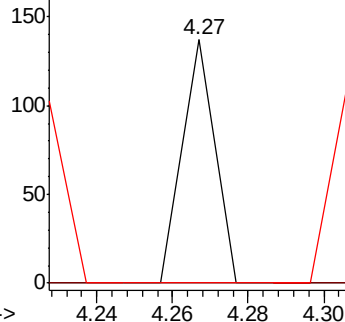
61 0.0 31.6 47.4#

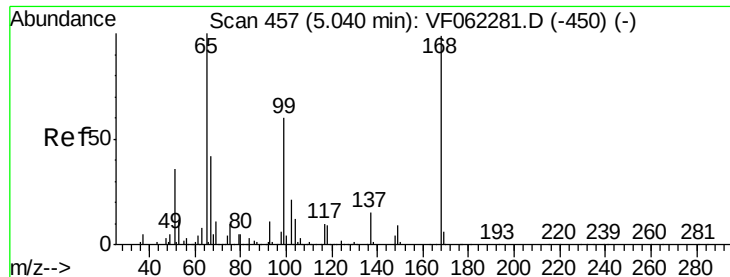


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

Ion 60.90 (60.60 to 61.60): VF0

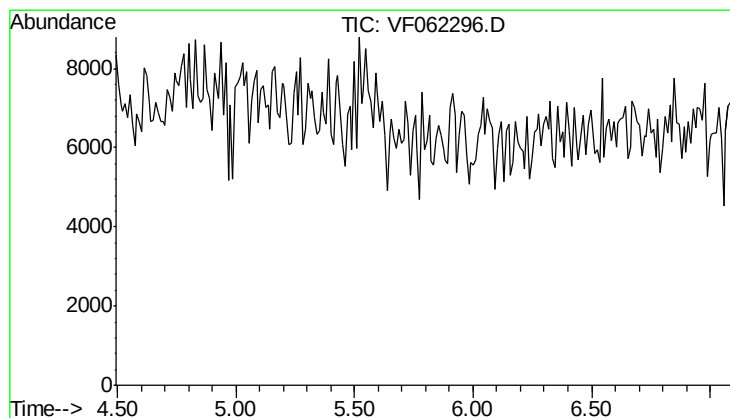
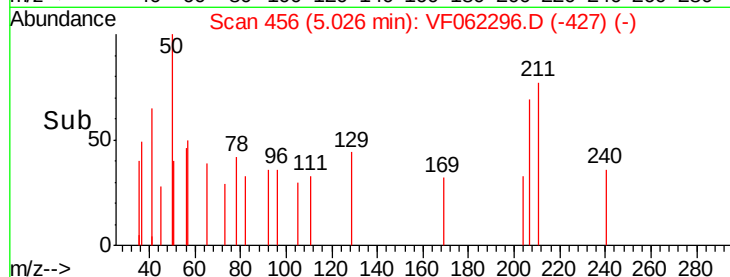
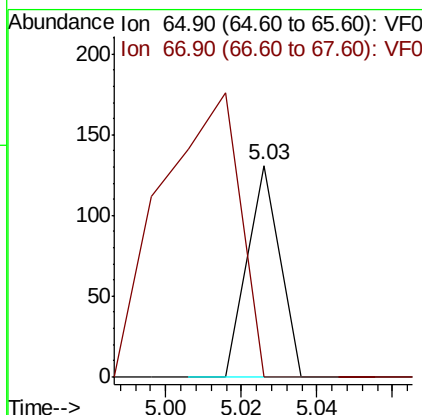
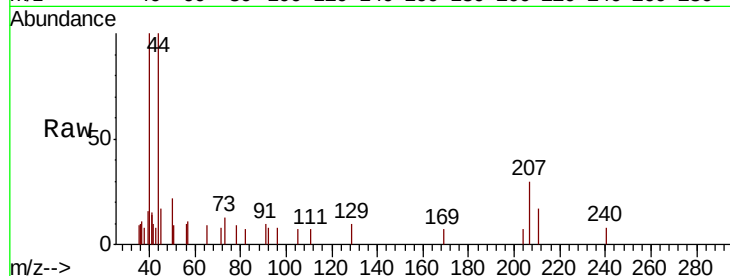




#33
 1,2-Dichloroethane-d4
 Concen: 130.220 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. -0.01 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Instrument :
 MSVOA_F
 ClientSampleId :
 RT3860RE

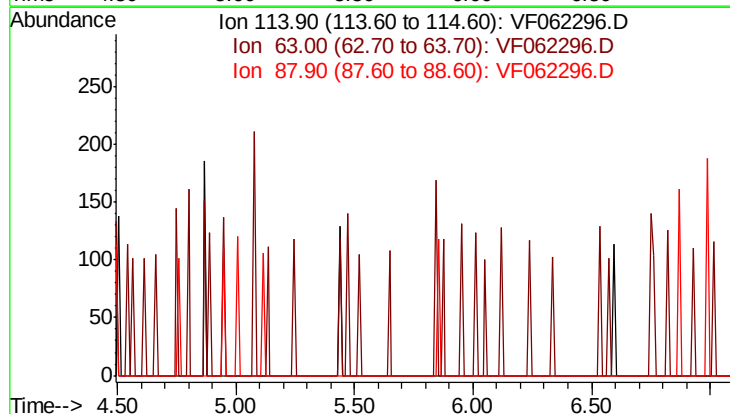
Tot Ion: 65 Resp: 77
 Ion Ratio Lower Upper
 65 100
 67 329.9 0.0 98.8#

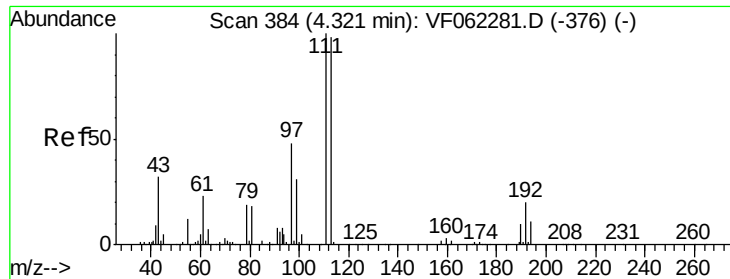


#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.79 min

Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Tgt Ion: 114
 Sig Exp Ratio
 114 100
 63 17.8
 88 17.3





#35

Dibromofluoromethane

Concen: 0.000 ug/l

RT: 4.36 min Scan# 388

Delta R.T. 0.03 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampled :

RT3860RE

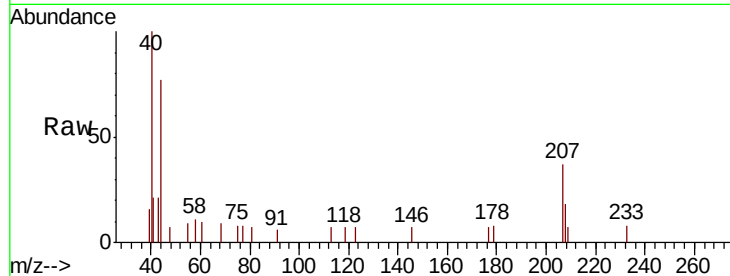
Tot Ion:113 Resp: 66

Ion Ratio Lower Upper

113 100

111 0.0 81.4 122.2#

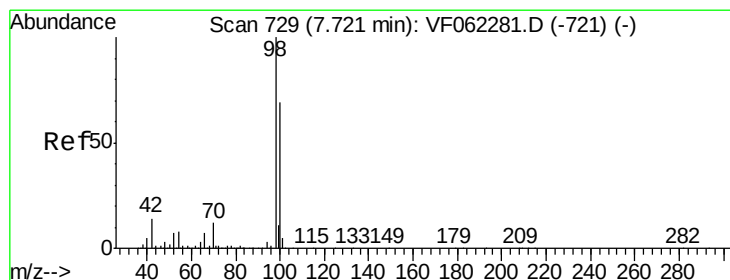
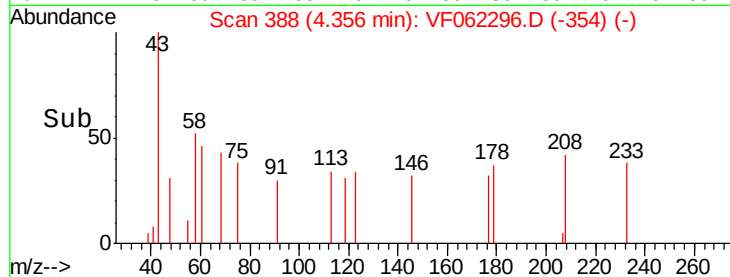
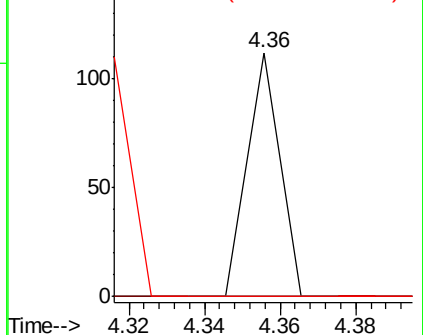
192 0.0 17.0 25.4#



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



#50

Toluene-d8

Concen: 0.000 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.00 min

Lab File: VF062296.D

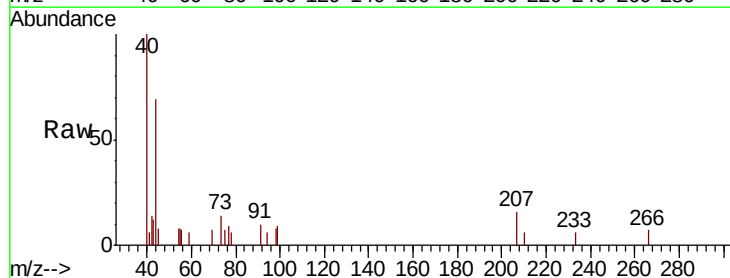
Acq: 25 Apr 2019 17:09

Tgt Ion: 98 Resp: 183

Ion Ratio Lower Upper

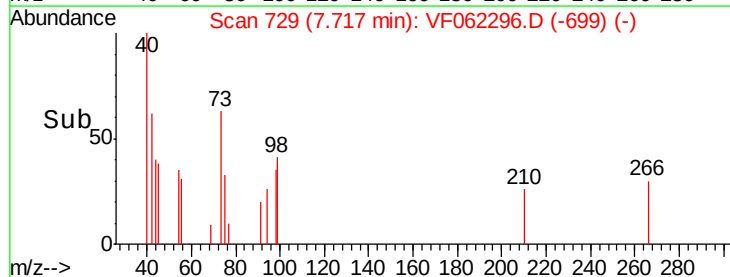
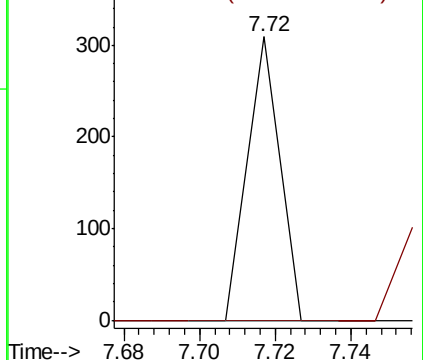
98 100

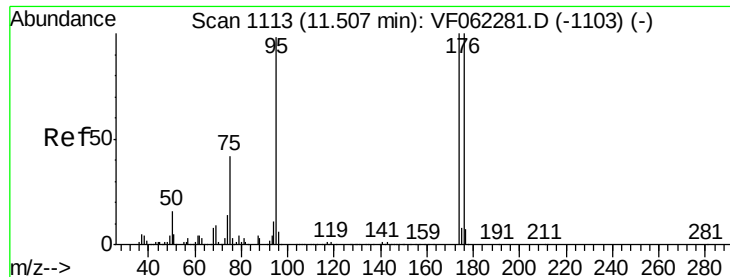
100 0.0 54.4 81.6#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

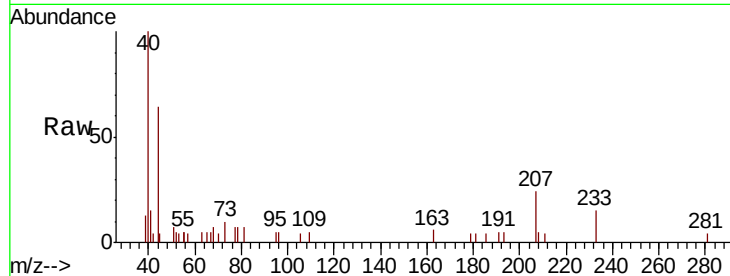




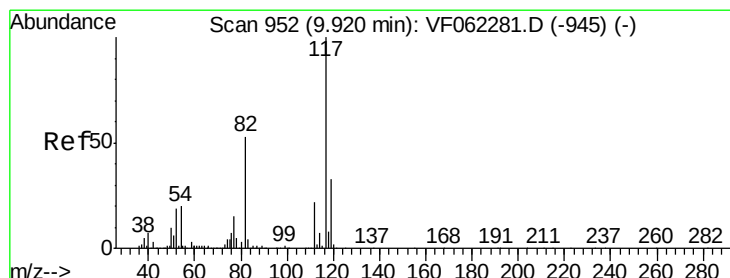
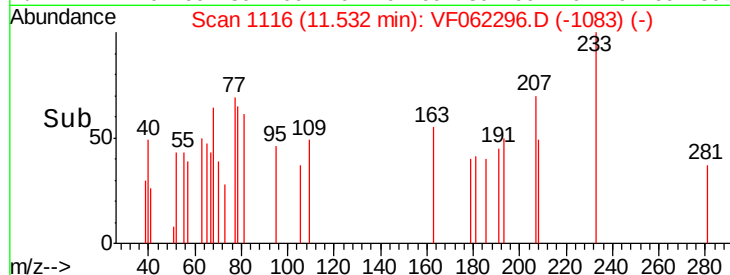
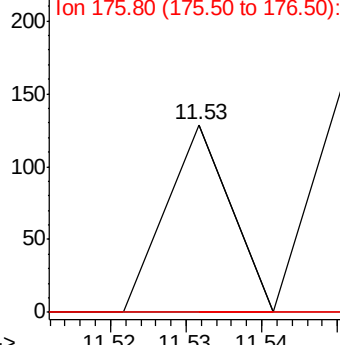
#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 11.53 min Scan# 1116
Delta R.T. 0.03 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

Instrument :
MSVOA_F
ClientSampleId :
RT3860RE

Tot Ion: 95 Resp: 76
Ion Ratio Lower Upper
95 100
174 0.0 0.0 185.2
176 0.0 0.0 184.8

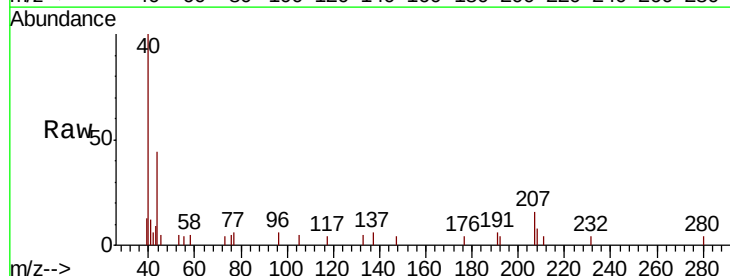


Abundance Ion 94.90 (94.60 to 95.60): VF0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

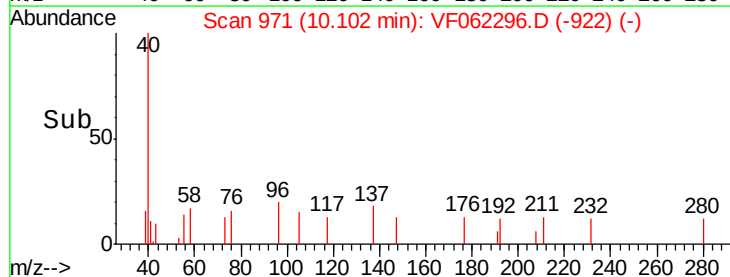
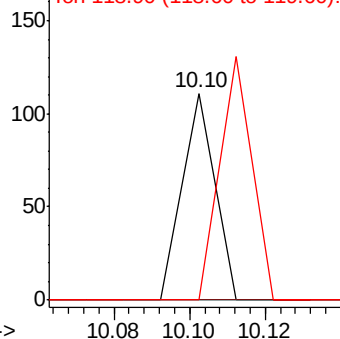


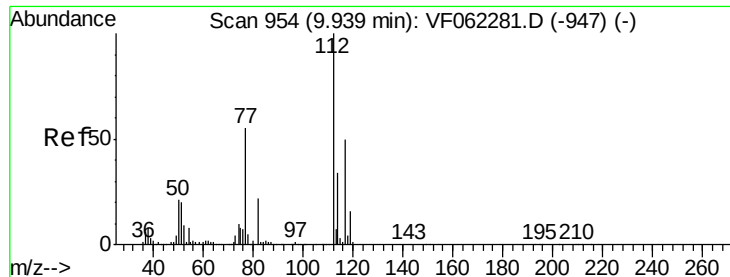
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 971
Delta R.T. 0.18 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

Tgt Ion: 117 Resp: 66
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





#65

Chlorobenzene

Concen: 54.723 ug/l

RT: 10.08 min Scan# 969

Delta R.T. 0.14 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

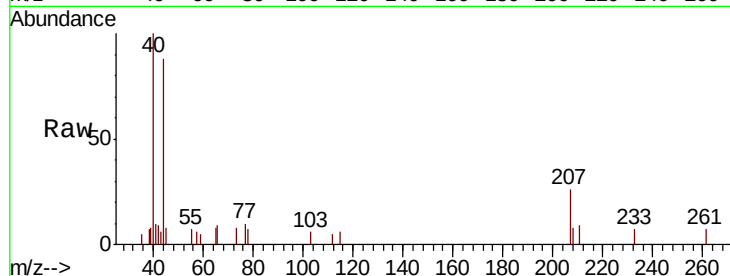
RT3860RE

Tot Ion:112 Resp: 66

Ion Ratio Lower Upper

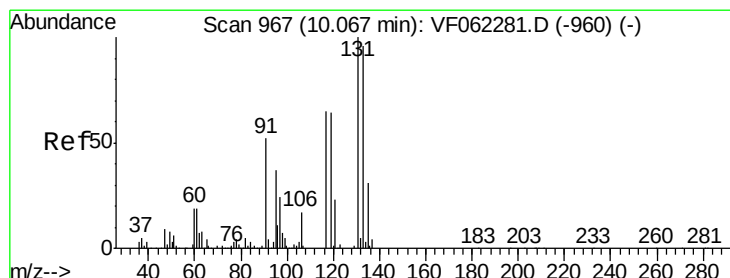
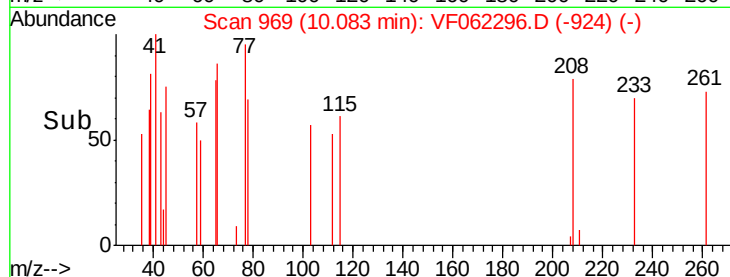
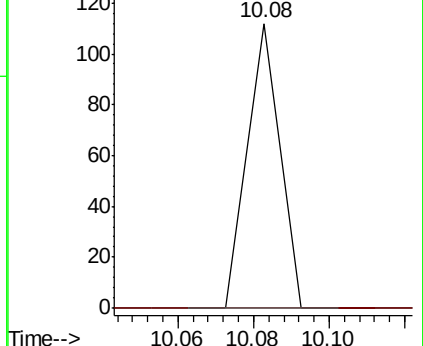
112 100

114 0.0 27.0 40.6#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 112.658 ug/l

RT: 10.05 min Scan# 966

Delta R.T. -0.01 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

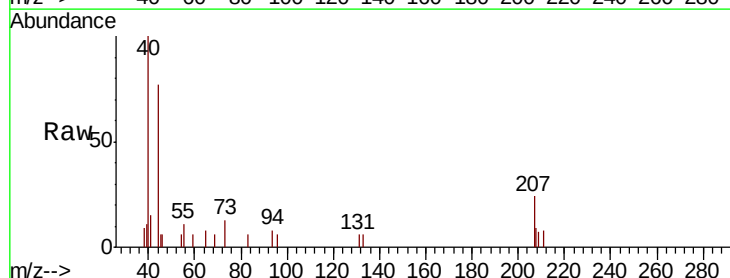
Tgt Ion:131 Resp: 64

Ion Ratio Lower Upper

131 100

133 390.6 48.5 145.5#

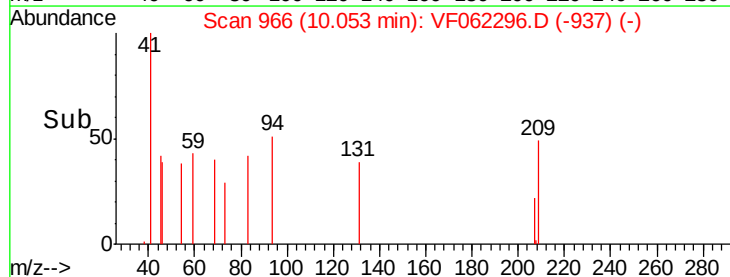
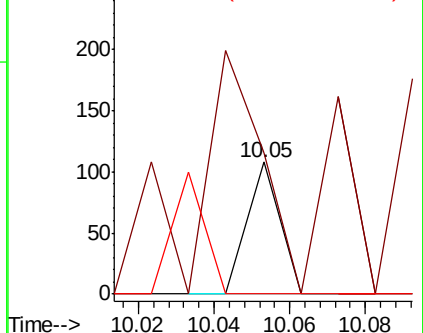
119 92.2 32.9 98.7

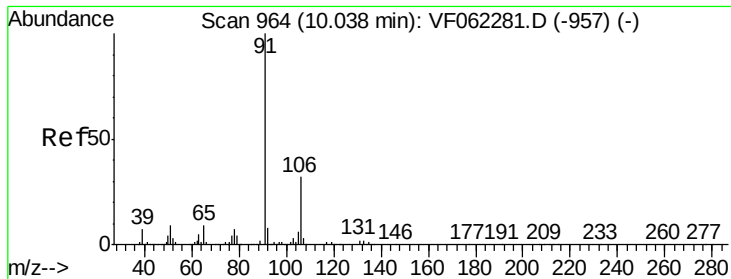


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 75.831 ug/l

RT: 9.93 min Scan# 954

Delta R.T. -0.10 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

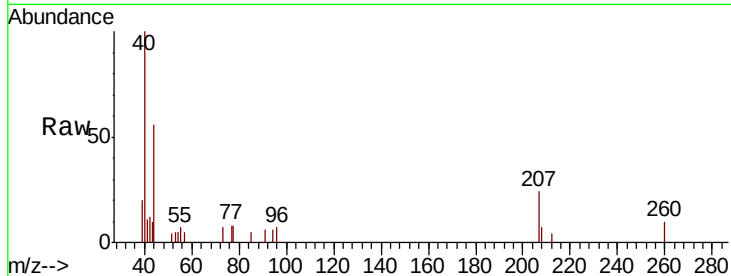
RT3860RE

Tot Ion: 91 Resp: 159

Ion Ratio Lower Upper

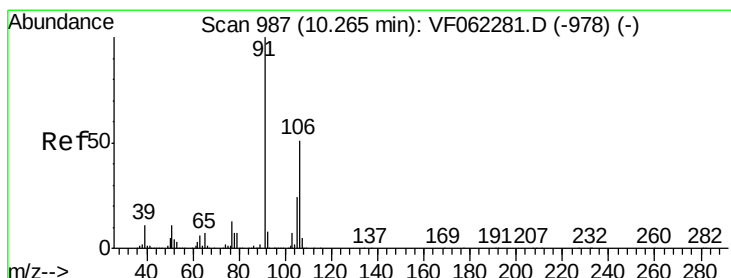
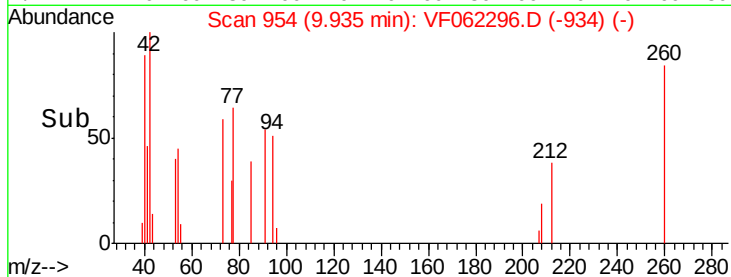
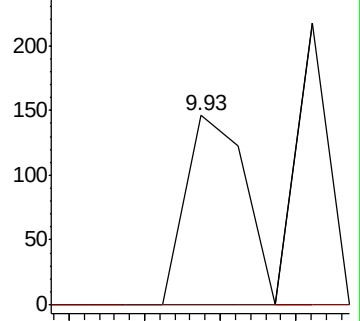
91 100

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



#68

m/p-Xylenes

Concen: 90.951 ug/l

RT: 10.07 min Scan# 968

Delta R.T. -0.19 min

Lab File: VF062296.D

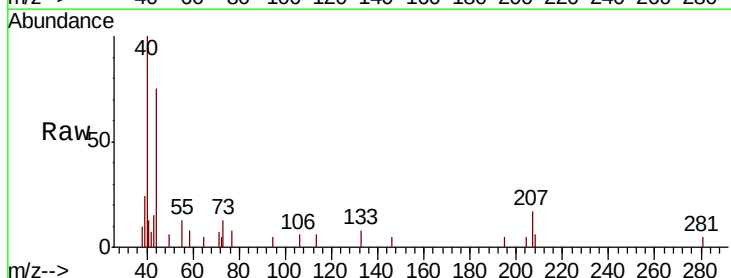
Acq: 25 Apr 2019 17:09

Tgt Ion: 106 Resp: 71

Ion Ratio Lower Upper

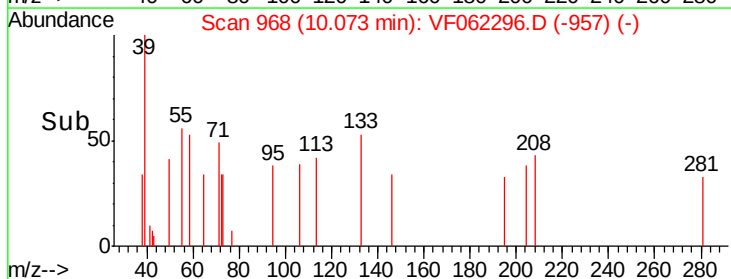
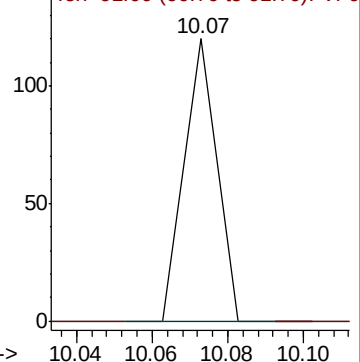
106 100

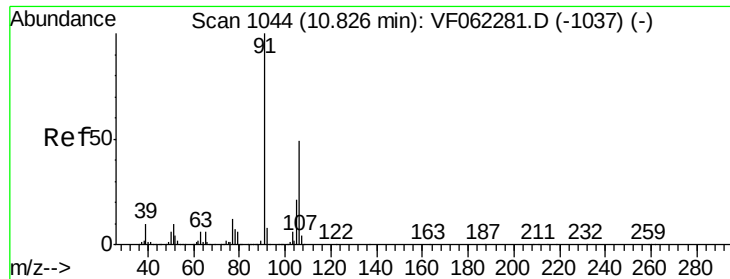
91 0.0 158.3 237.5#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

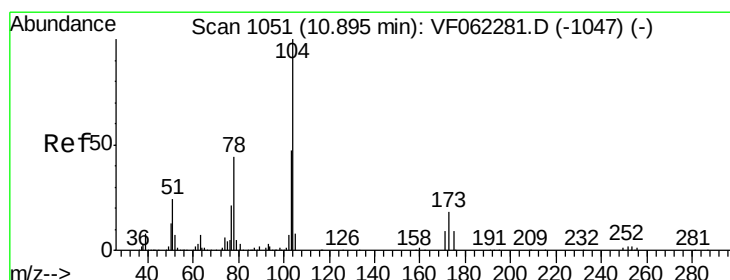
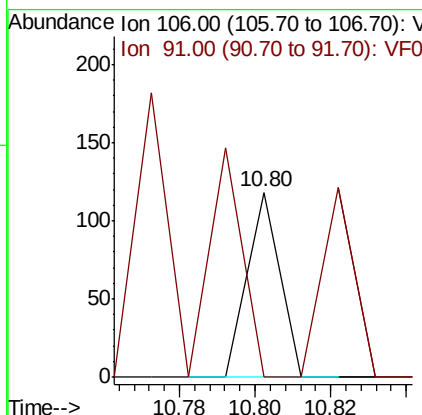
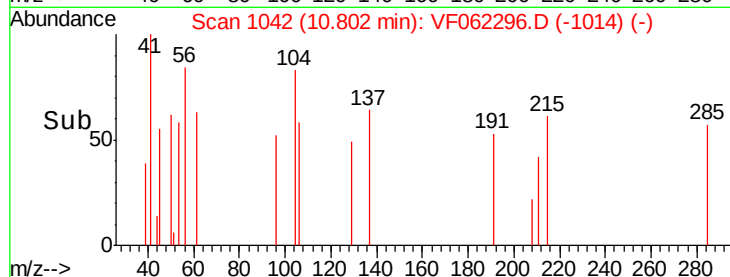
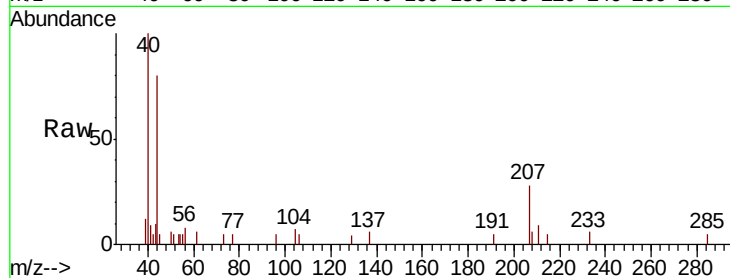




#69
o-Xylene
Concen: 80.261 ug/l
RT: 10.80 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

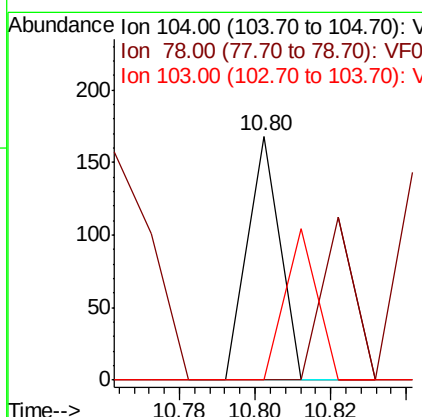
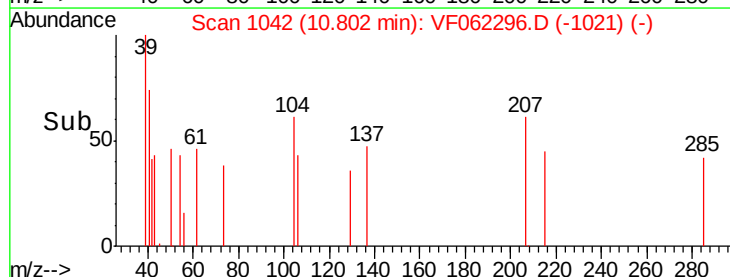
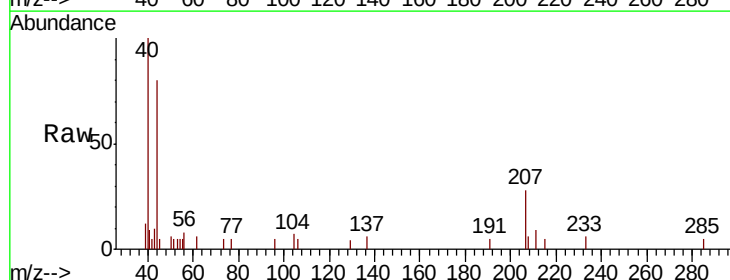
Instrument :
MSVOA_F
ClientSampleId :
RT3860RE

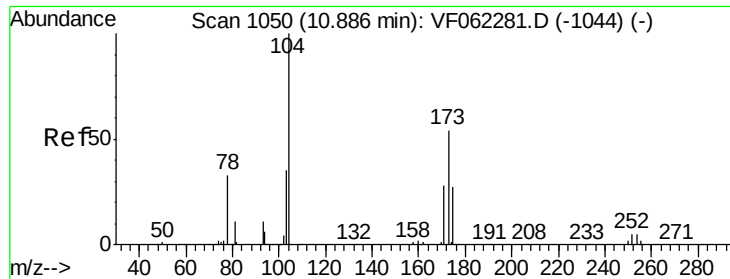
Tot Ion:106 Resp: 70
Ion Ratio Lower Upper
106 100
91 102.9 110.0 330.0#



#70
Styrene
Concen: 78.523 ug/l
RT: 10.80 min Scan# 1042
Delta R.T. -0.09 min
Lab File: VF062296.D
Acq: 25 Apr 2019 17:09

Tgt Ion:104 Resp: 99
Ion Ratio Lower Upper
104 100
78 66.7 35.9 53.9#
103 62.6 37.5 56.3#





#71

Bromoform

Concen: 187.633 ug/l

RT: 10.62 min Scan# 1024

Delta R.T. -0.26 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

RT3860RE

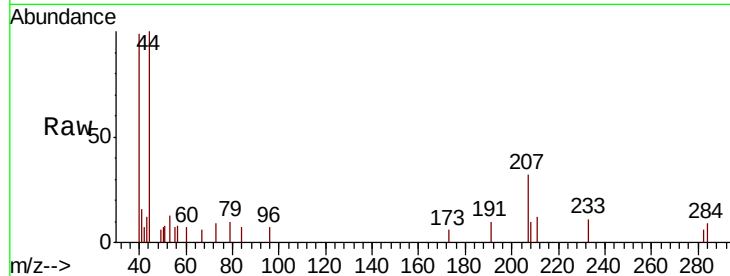
Tot Ion:173 Resp: 60

Ion Ratio Lower Upper

173 100

175 0.0 25.3 75.9#

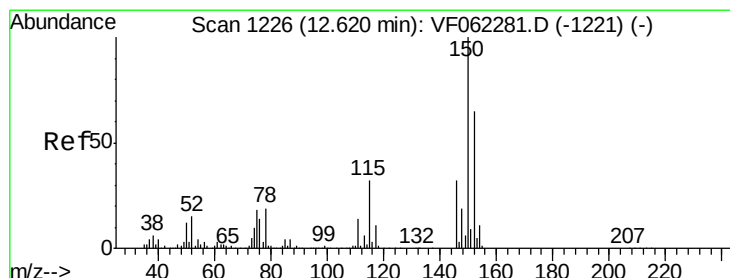
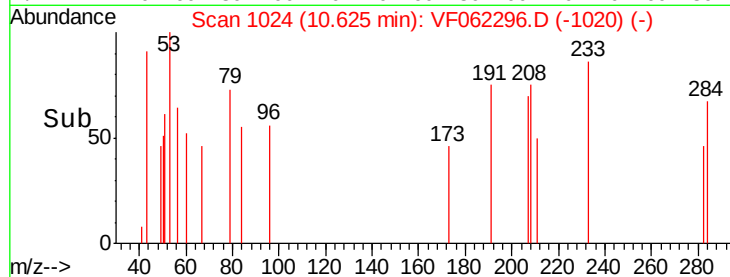
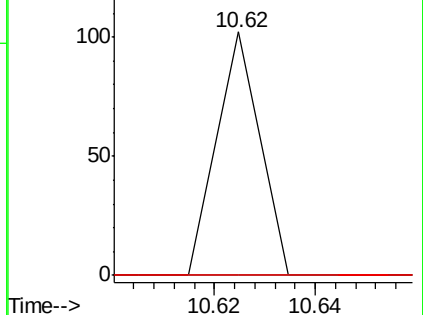
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1221

Delta R.T. -0.05 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

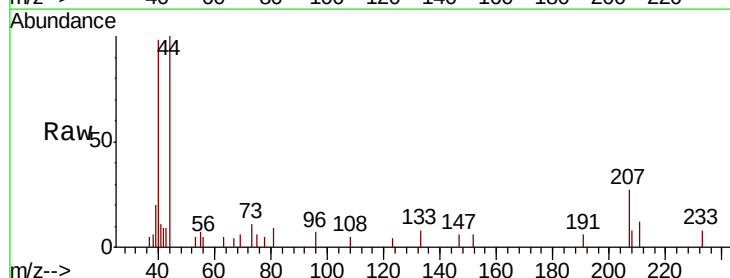
Tgt Ion:152 Resp: 74

Ion Ratio Lower Upper

152 100

115 0.0 25.6 76.8#

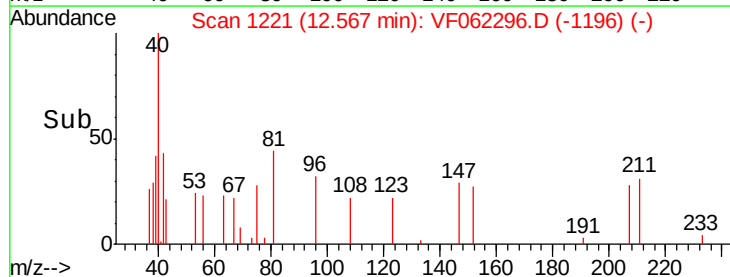
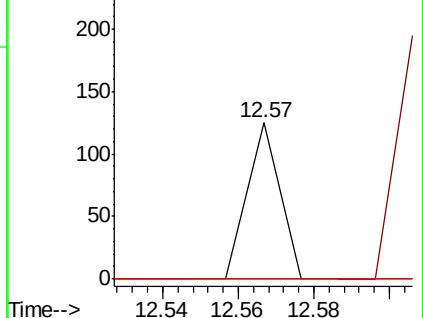
150 0.0 0.0 330.6

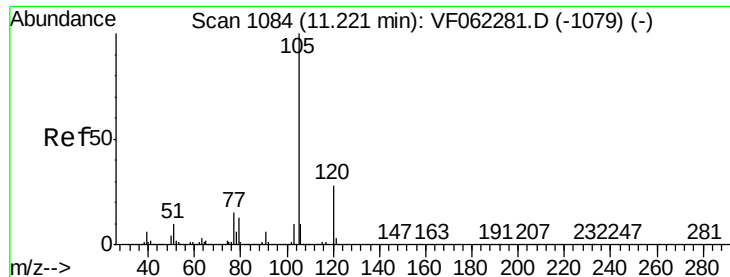


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 13.018 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

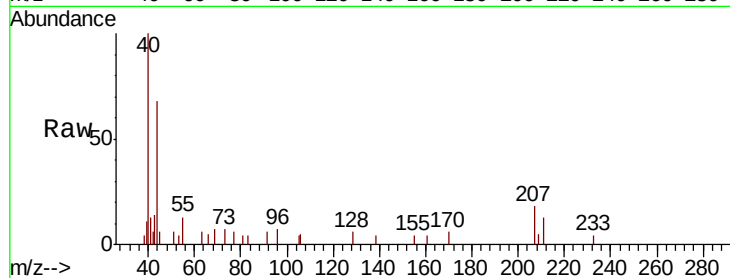
RT3860RE

Tot Ion:105 Resp: 66

Ion Ratio Lower Upper

105 100

120 0.0 12.4 37.2#



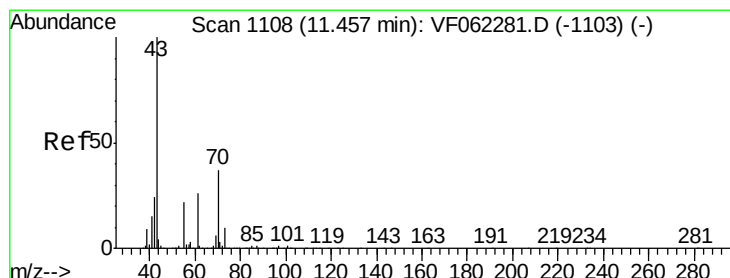
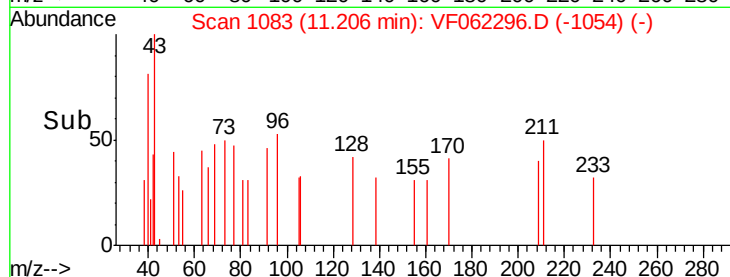
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.21

11.18 11.20 11.22

Time-->



#74

N-ethyl acetate

Concen: 860.299 ug/l

RT: 11.42 min Scan# 1105

Delta R.T. -0.03 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Tgt Ion: 43 Resp: 1005

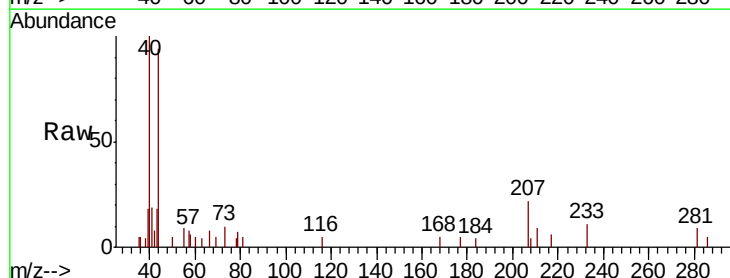
Ion Ratio Lower Upper

43 100

70 0.0 27.8 41.8#

55 0.0 16.6 24.8#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

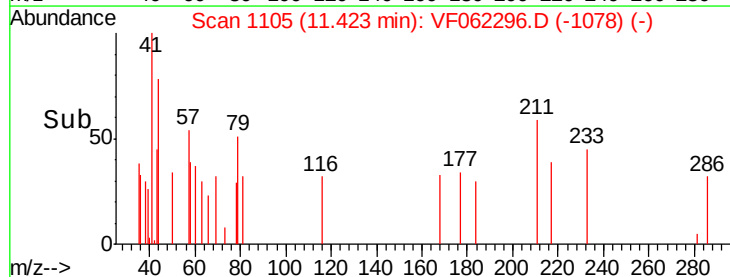
Ion 55.00 (54.70 to 55.70): VF0

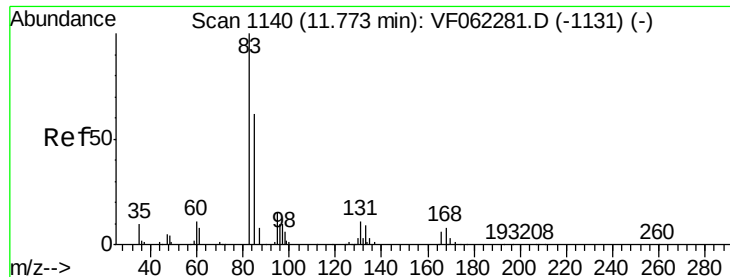
Ion 61.00 (60.70 to 61.70): VF0

11.42

11.40 11.45 11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 86.902 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

RT3860RE

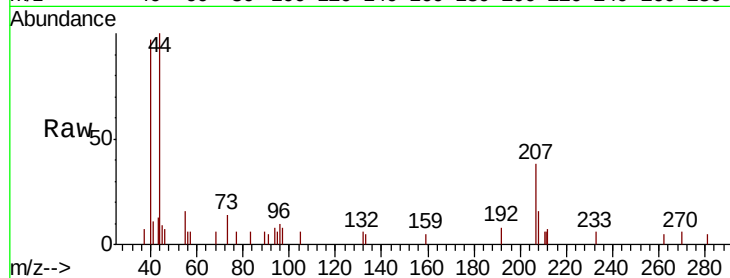
Tot Ion: 83 Resp: 70

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.5#

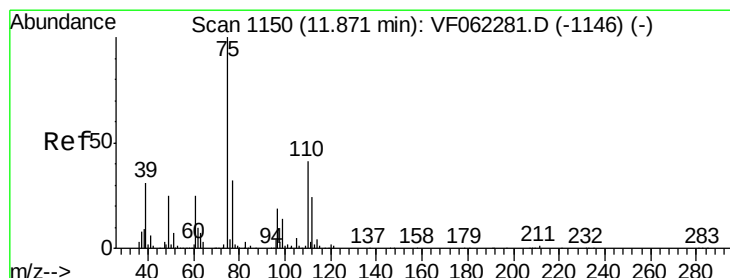
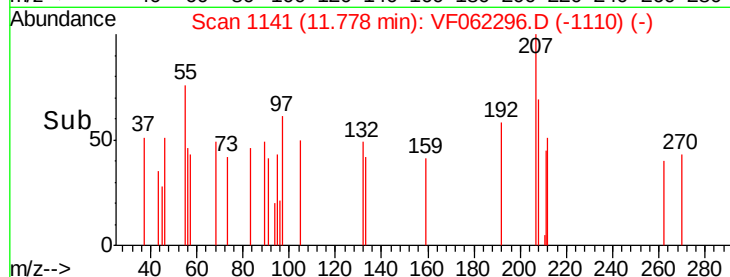
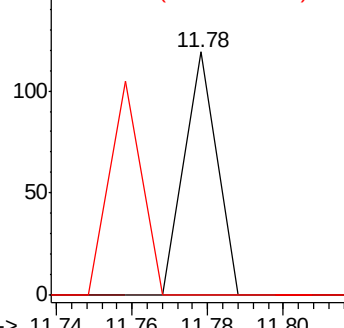
85 88.6 34.5 103.6



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 304.460 ug/l

RT: 11.73 min Scan# 1136

Delta R.T. -0.14 min

Lab File: VF062296.D

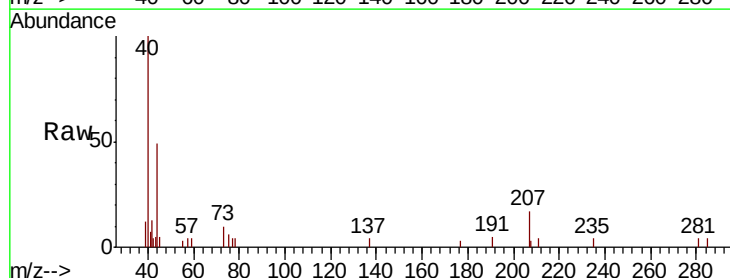
Acq: 25 Apr 2019 17:09

Tgt Ion: 75 Resp: 174

Ion Ratio Lower Upper

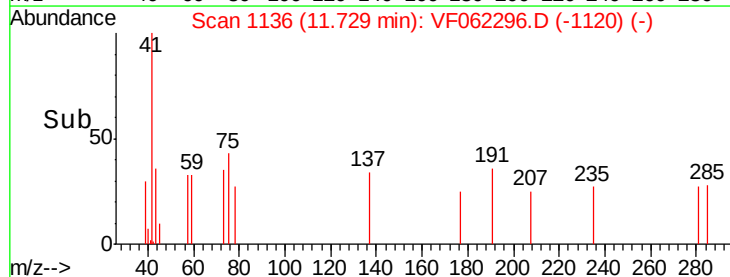
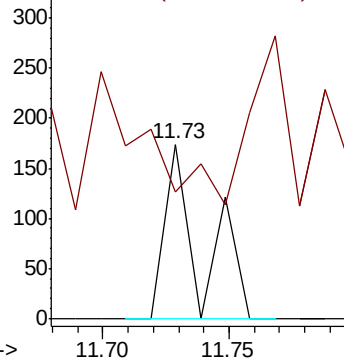
75 100

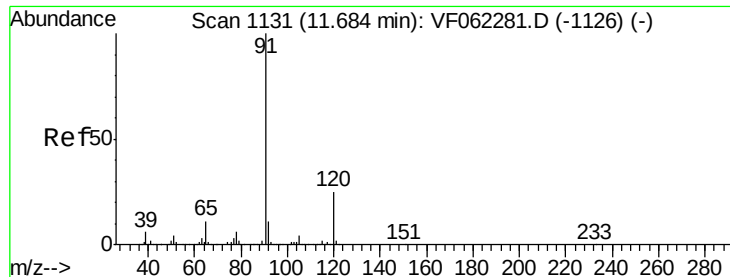
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 61.483 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

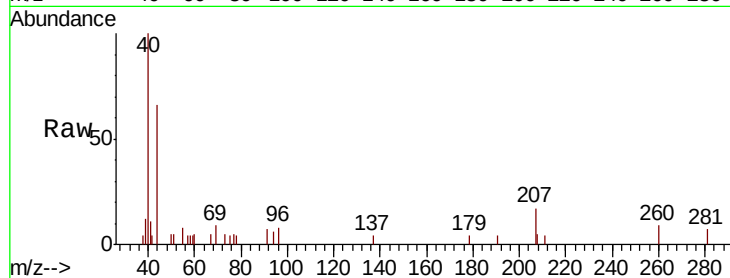
RT3860RE

Tot Ion: 91 Resp: 328

Ion Ratio Lower Upper

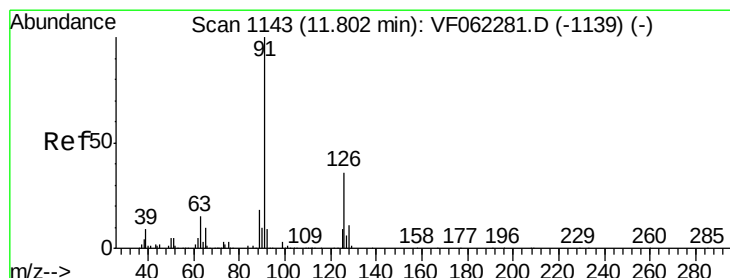
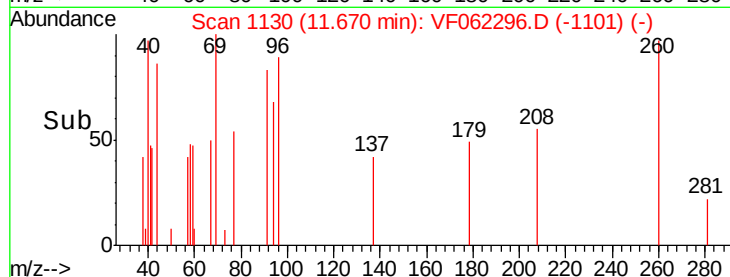
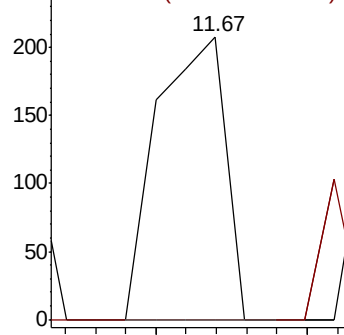
91 100

120 0.0 11.8 35.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 40.767 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. -0.19 min

Lab File: VF062296.D

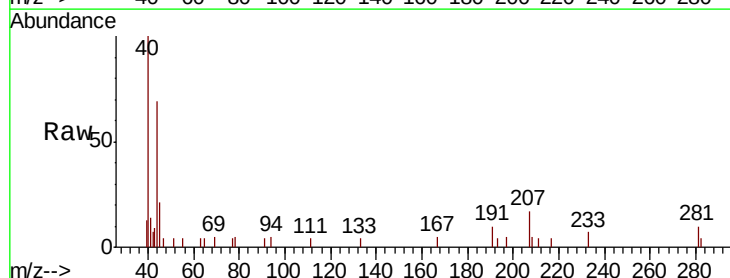
Acq: 25 Apr 2019 17:09

Tgt Ion: 91 Resp: 131

Ion Ratio Lower Upper

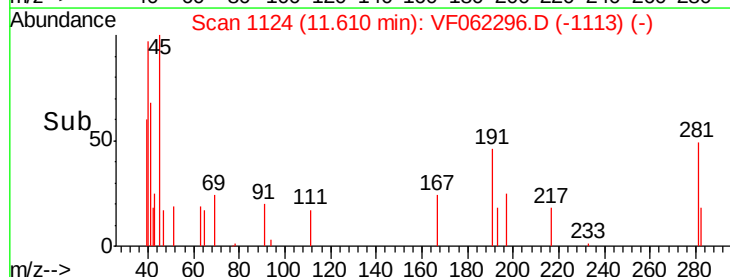
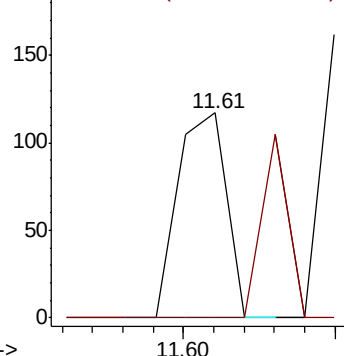
91 100

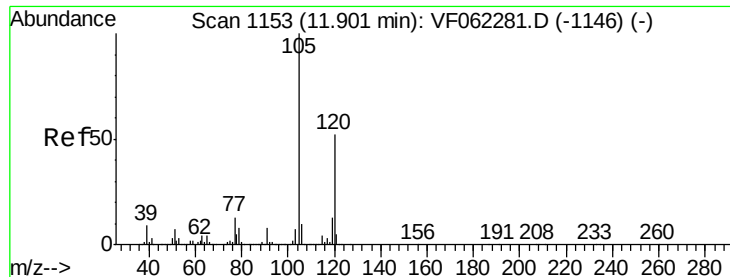
126 47.3 17.9 53.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 18.691 ug/l

RT: 11.71 min Scan# 1134

Delta R.T. -0.19 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampled :

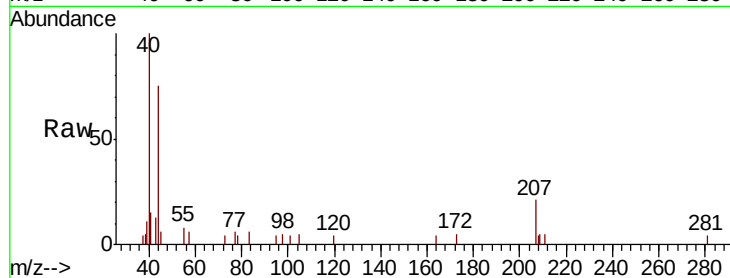
RT3860RE

Tot Ion:105 Resp: 80

Ion Ratio Lower Upper

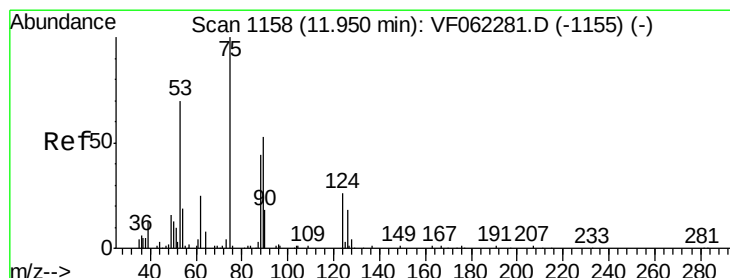
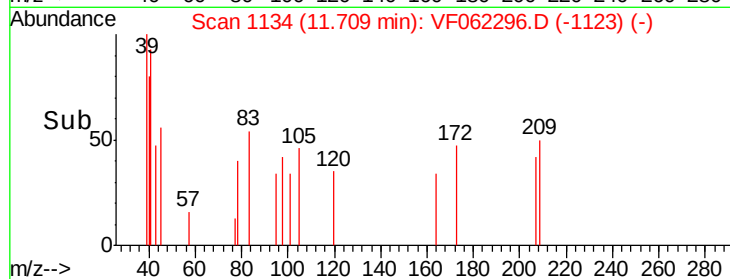
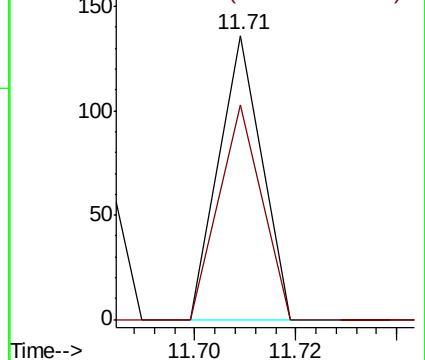
105 100

120 76.3 25.8 77.4



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: 246.615 ug/l

RT: 12.11 min Scan# 1175

Delta R.T. 0.16 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

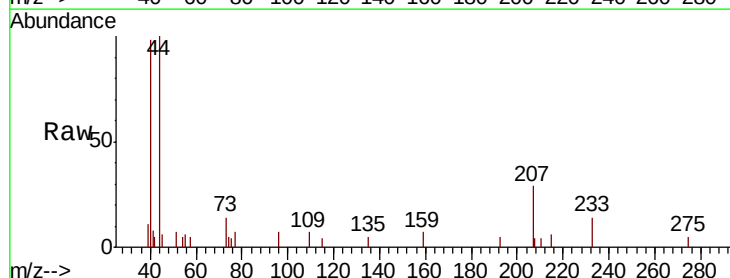
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

53 320.6 67.1 100.7#

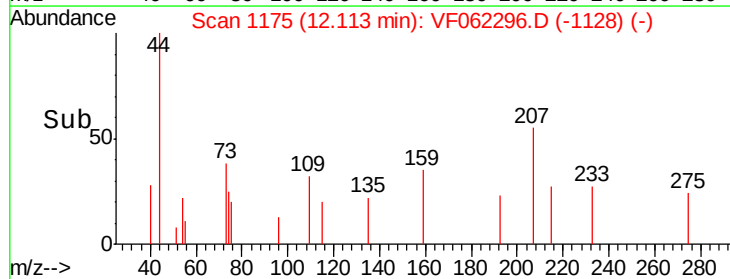
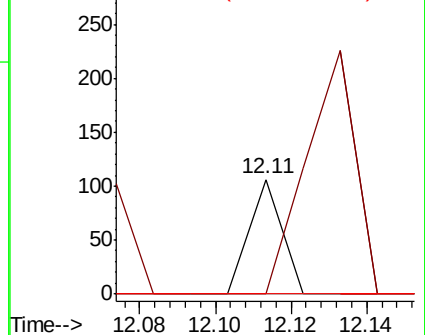
89 0.0 0.0 0.0

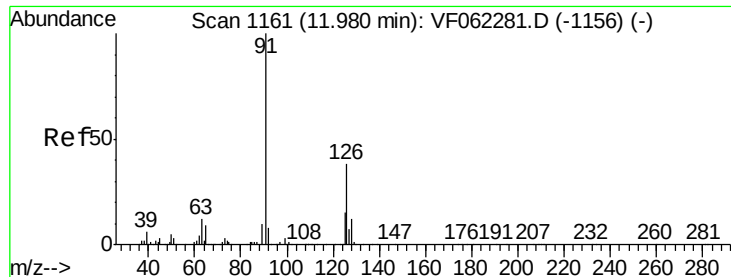


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

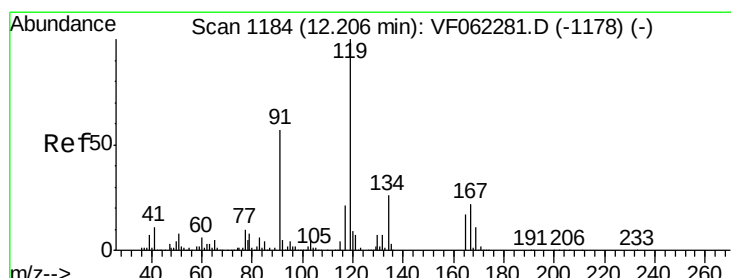
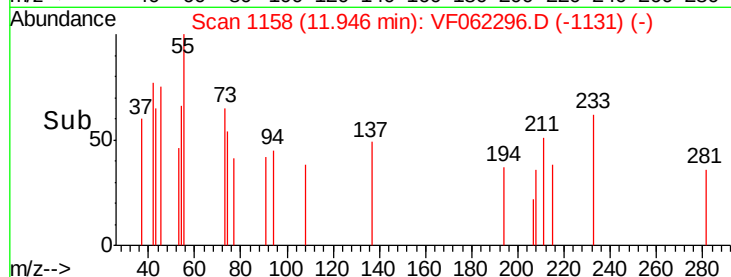
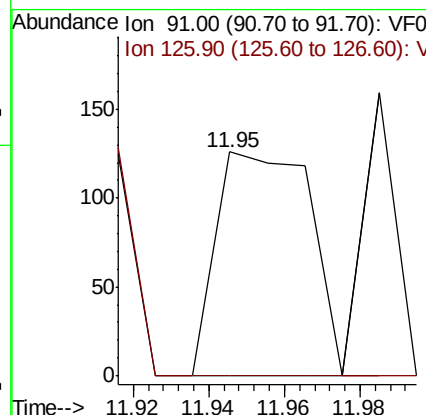
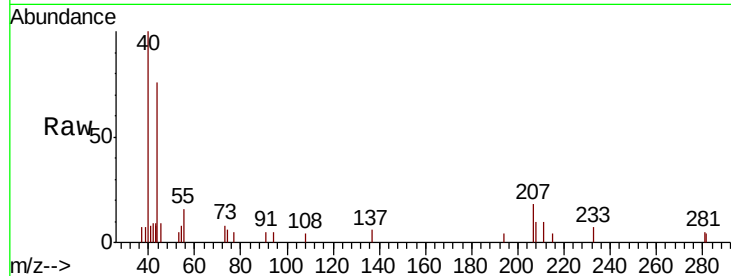




#82
 4-Chlorotoluene
 Concen: 67.618 ug/l
 RT: 11.95 min Scan# 1158
 Delta R.T. -0.03 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

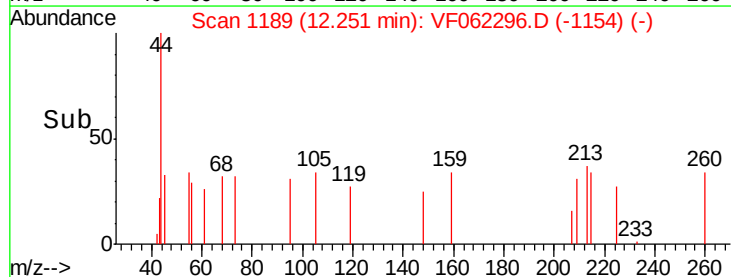
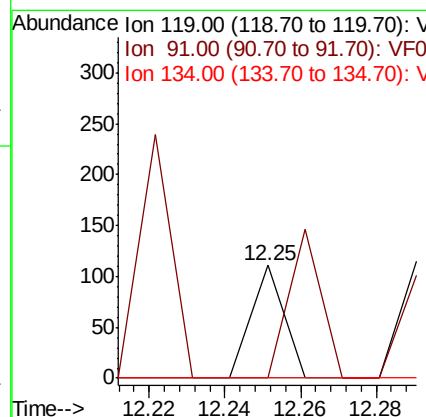
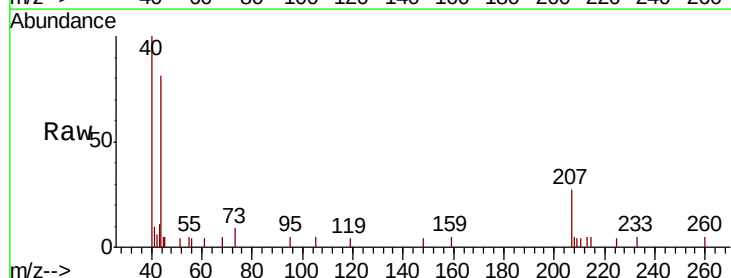
Instrument :
 MSVOA_F
 ClientSampleID :
 RT3860RE

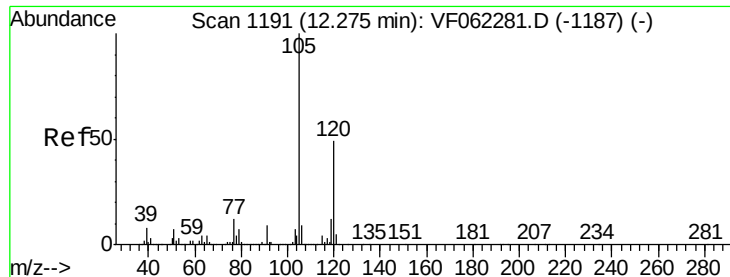
Tot Ion: 91 Resp: 215
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.3 52.0#



#83
 tert-Butylbenzene
 Concen: 15.025 ug/l
 RT: 12.25 min Scan# 1189
 Delta R.T. 0.04 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Tgt Ion: 119 Resp: 66
 Ion Ratio Lower Upper
 119 100
 91 130.3 29.4 88.2#
 134 0.0 11.9 35.7#

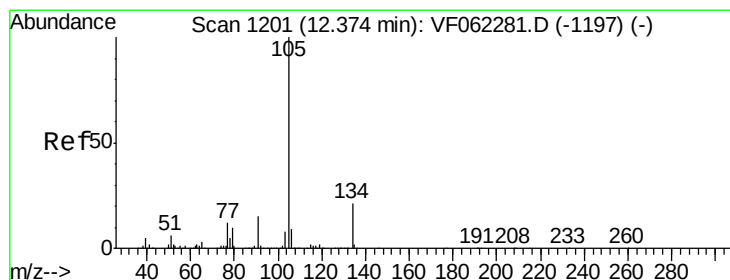
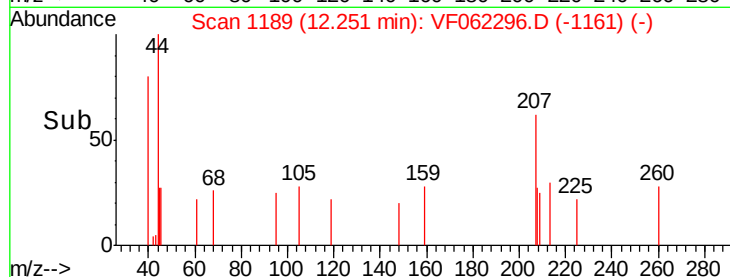
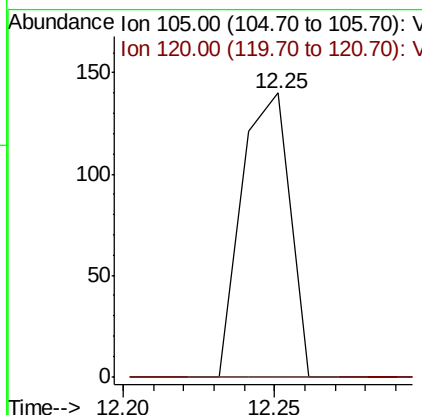
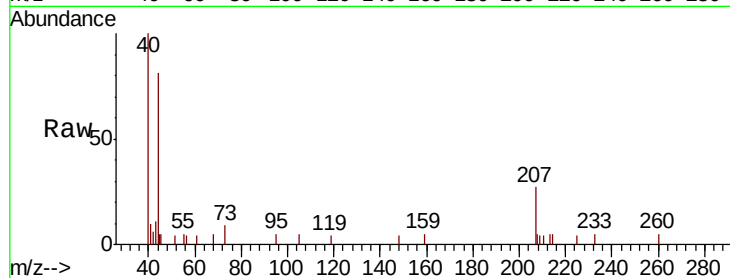




#84
 1,2,4-Trimethylbenzene
 Concen: 37.150 ug/l
 RT: 12.25 min Scan# 1189
 Delta R.T. -0.02 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

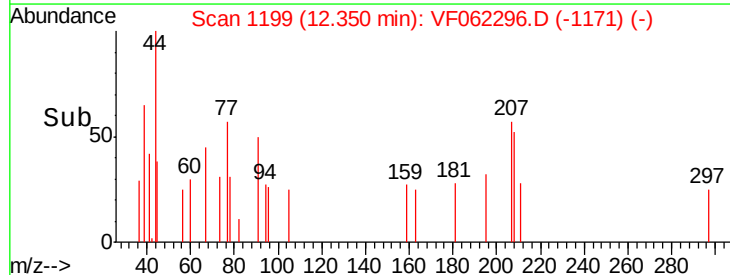
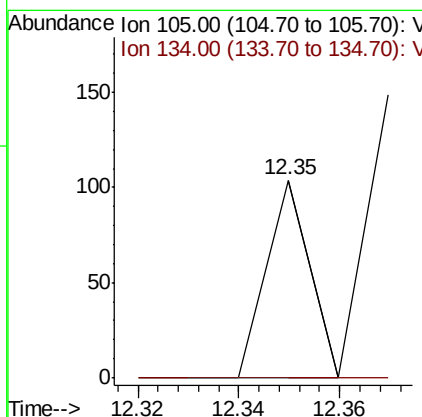
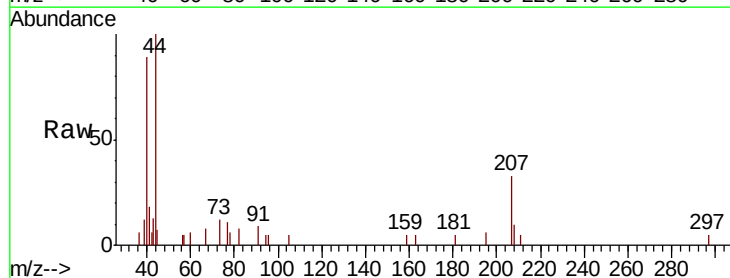
Instrument :
 MSVOA_F
 ClientSampleId :
 RT3860RE

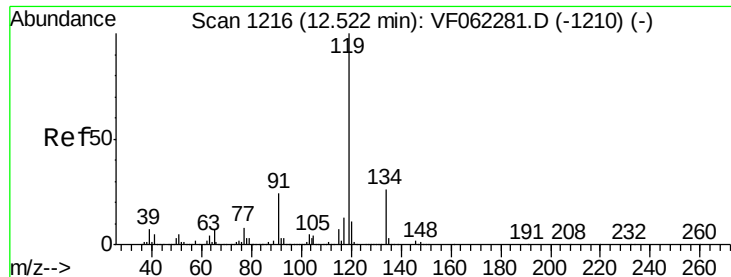
Tot Ion:105 Resp: 154
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.1 72.2#



#85
 sec-Butylbenzene
 Concen: 11.150 ug/l
 RT: 12.35 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Tgt Ion:105 Resp: 61
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#

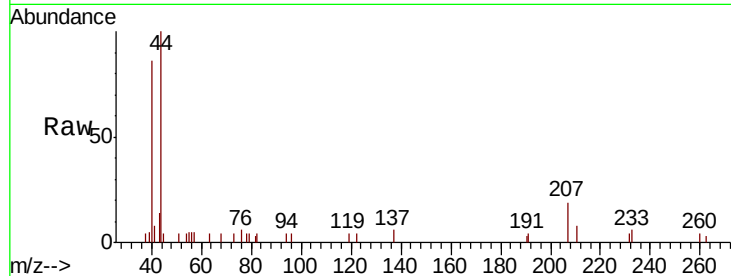




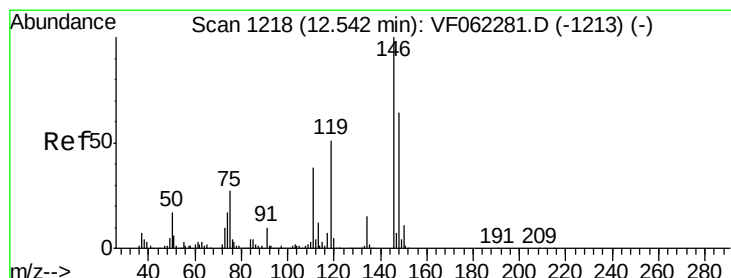
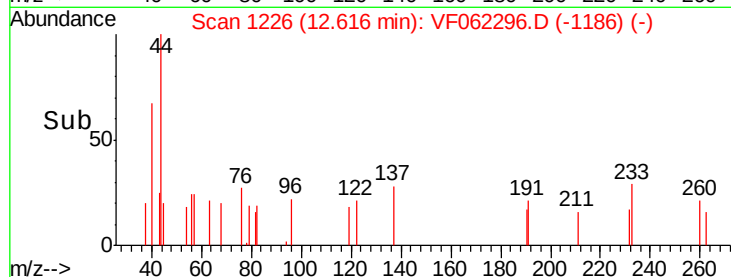
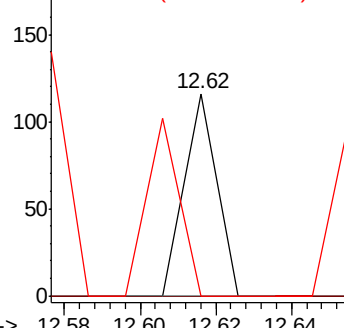
#86
 p-Isopropyltoluene
 Concen: 14.067 ug/l
 RT: 12.62 min Scan# 1226
 Delta R.T. 0.09 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Instrument :
 MSVOA_F
 ClientSampleId :
 RT3860RE

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.2	39.5#
91	87.0	11.6	34.7#

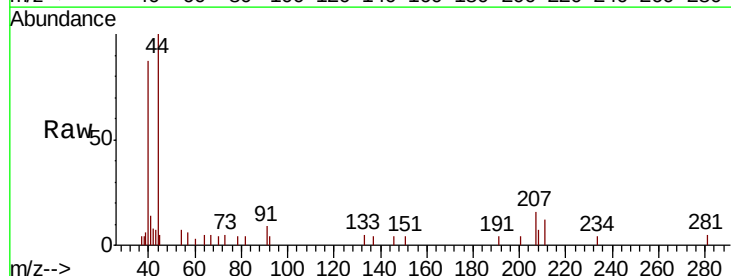


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

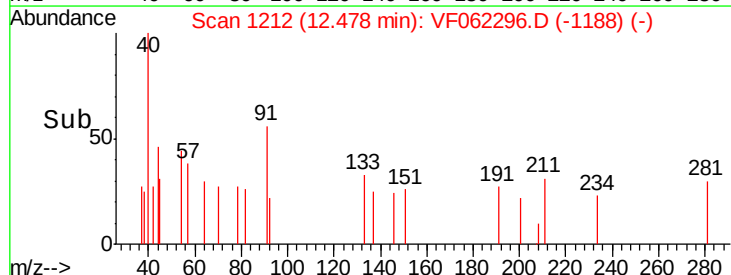
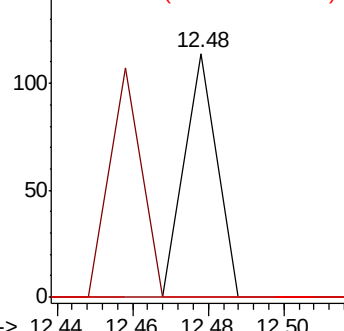


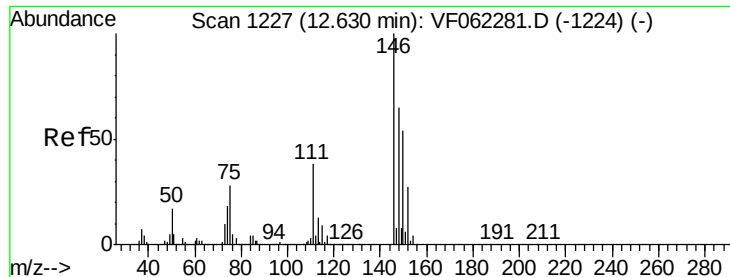
#87
 1,3-Dichlorobenzene
 Concen: 29.879 ug/l
 RT: 12.48 min Scan# 1212
 Delta R.T. -0.06 min
 Lab File: VF062296.D
 Acq: 25 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	94.0	18.6	55.8#
148	0.0	32.8	98.4#



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 31.513 ug/l

RT: 12.48 min Scan# 1212

Delta R.T. -0.15 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

RT3860RE

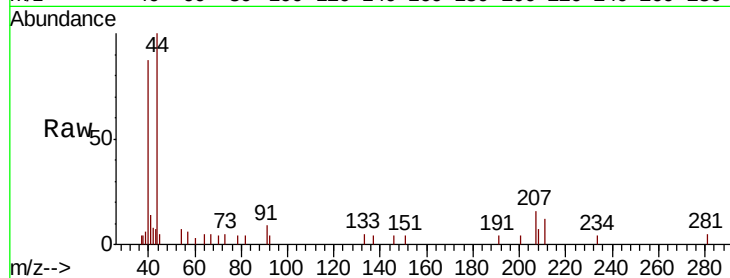
Tot Ion:146 Resp: 67

Ion Ratio Lower Upper

146 100

111 94.0 18.6 56.0#

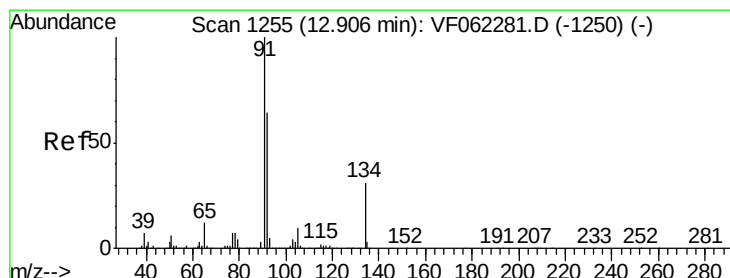
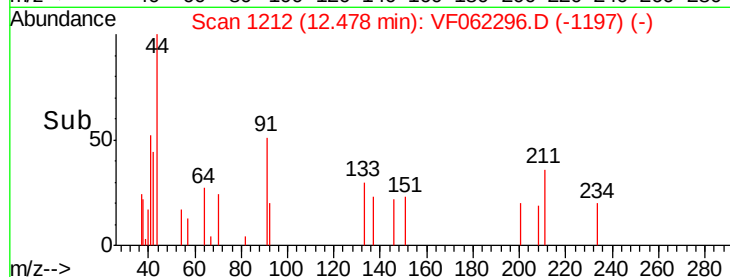
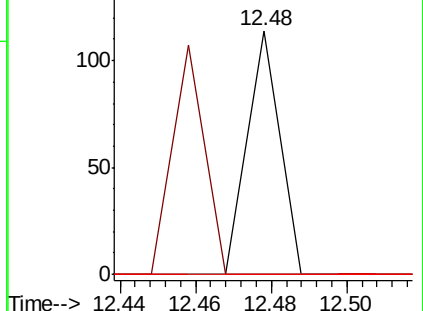
148 0.0 32.5 97.5#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 13.911 ug/l

RT: 12.86 min Scan# 1251

Delta R.T. -0.04 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

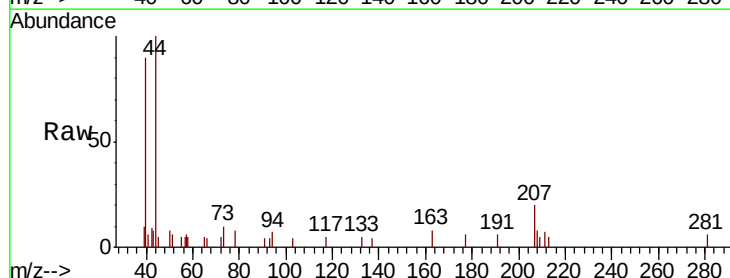
Tgt Ion: 91 Resp: 62

Ion Ratio Lower Upper

91 100

92 96.8 31.1 93.3#

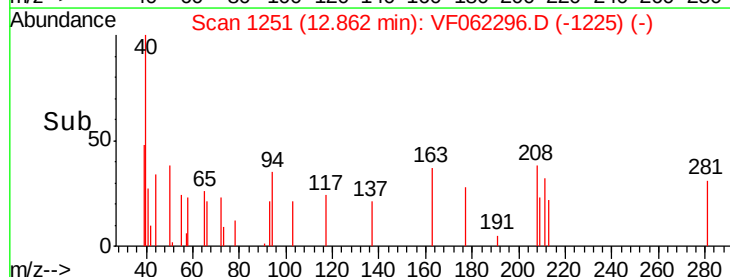
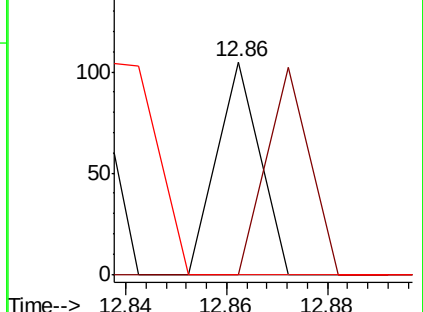
134 0.0 14.4 43.4#

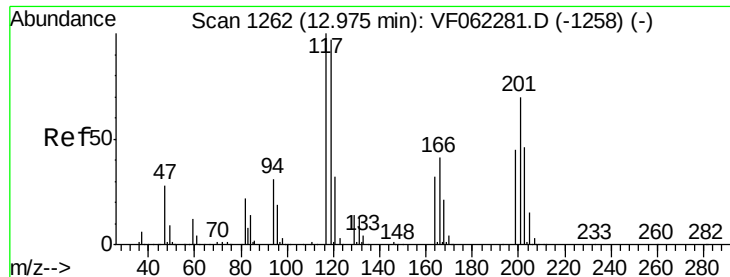


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 120.370 ug/l

RT: 12.96 min Scan# 1261

Delta R.T. -0.01 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampled :

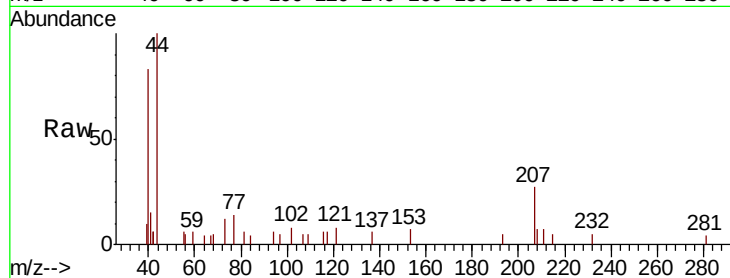
RT3860RE

Tot Ion:117 Resp: 148

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.5#

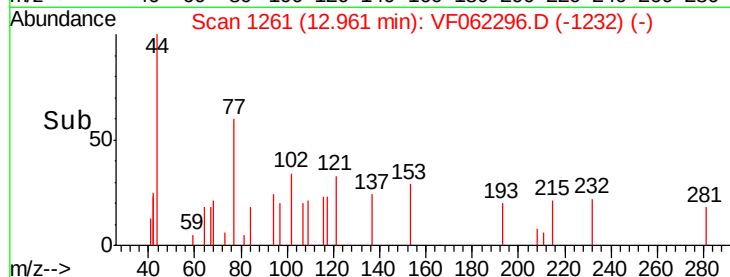


Abundance Ion 116.80 (116.50 to 117.50): V

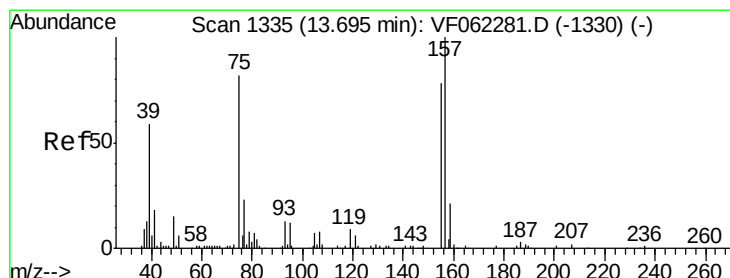
Ion 200.70 (200.40 to 201.40): V

12.96

12.95



Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 412.310 ug/l

RT: 13.65 min Scan# 1331

Delta R.T. -0.04 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

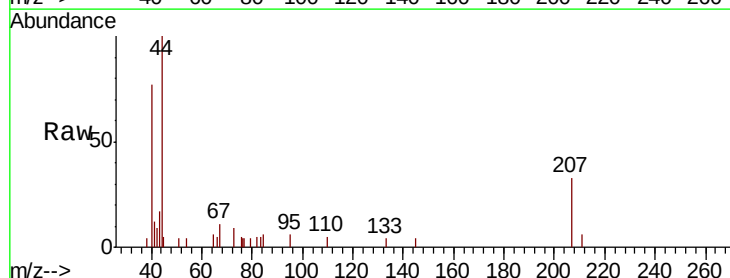
Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.2#

157 0.0 64.5 193.5#



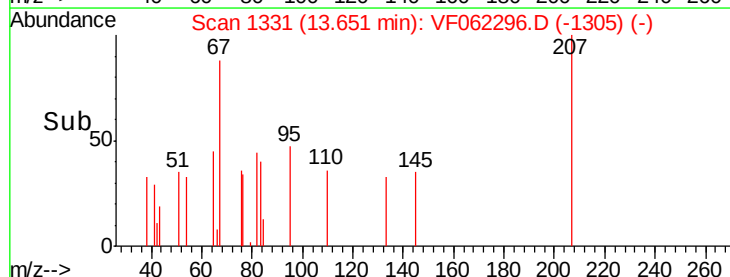
Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

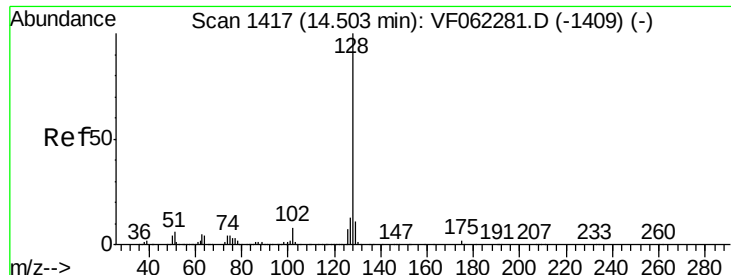
Ion 156.80 (156.50 to 157.50): V

13.65

13.62 13.64 13.66 13.68



Time-->



#95

Naphthalene

Concen: 25.942 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF062296.D

Acq: 25 Apr 2019 17:09

Instrument :

MSVOA_F

ClientSampleId :

RT3860RE

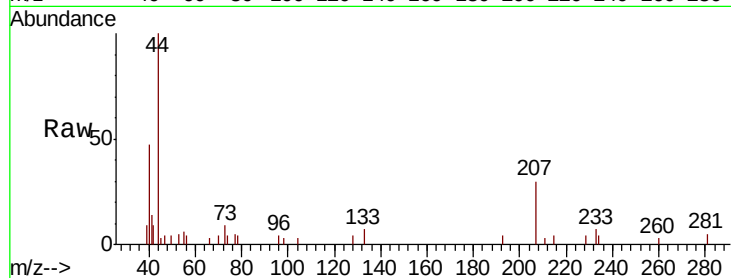
Tot Ion:128 Resp: 76

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.9 13.3#



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

