

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042519\
 Data File : VF062300.D
 Acq On : 25 Apr 2019 18:59
 Operator : FY/SY
 Sample : K2571-01RE
 Misc : 6.17g/5mL/MSVOA F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 144-PENNINGTONRE

Quant Time: Apr 26 01:11:14 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	5.27	168	96	50.00	ug/l	0.20
34) 1,4-Difluorobenzene	5.98	114	170	50.00	ug/l	0.19
63) Chlorobenzene-d5	10.32	117	60	50.00	ug/l	0.40
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.62

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.22	65	72	92.59	ug/l	0.18
Spiked Amount	50.000		Recovery	=	185.18%	
35) Dibromofluoromethane	4.72	113	83	65.85	ug/l	0.40
Spiked Amount	50.000		Recovery	=	131.70%	
50) Toluene-d8	8.00	98	60	19.49	ug/l	0.28
Spiked Amount	50.000		Recovery	=	38.98%	
62) 4-Bromofluorobenzene	11.90	95	271	213.55	ug/l	0.40
Spiked Amount	50.000		Recovery	=	427.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	69	60.482	ug/l #	40
3) Chloromethane	1.22	50	272	283.014	ug/l #	44
4) Vinyl Chloride	1.28	62	73	80.199	ug/l #	44
5) Bromomethane	1.48	94	206	333.257	ug/l #	74
6) Chloroethane	1.54	64	68	170.420	ug/l #	1
7) Trichlorofluoromethane	1.57	101	146	100.941	ug/l #	15
8) Diethyl Ether	1.54	74	62	236.611	ug/l	66
9) 1,1,2-Trichlorotrifluoroet	2.06	101	71	78.220	ug/l #	10
11) Tert butyl alcohol	2.77	59	79	1679.467	ug/l #	1
12) 1,1-Dichloroethene	1.95	96	120	148.166	ug/l #	20
13) Acrolein	2.15	56	516	11322.563	ug/l #	10
14) Allyl chloride	2.26	41	203	230.309	ug/l #	56
15) Acrylonitrile	3.19	53	269	2064.747	ug/l #	49
16) Acetone	2.41	43	389	2234.293	ug/l #	56
17) Carbon Disulfide	2.04	76	166	77.879	ug/l #	69
18) Methyl Acetate	2.57	43	492	1613.299	ug/l #	59
19) Methyl tert-butyl Ether	2.66	73	203	131.475	ug/l #	57
20) Methylene Chloride	2.41	84	60	84.339	ug/l #	2
21) trans-1,2-Dichloroethene	2.51	96	85	106.198	ug/l #	1
22) Diisopropyl ether	3.03	45	151	63.637	ug/l #	43
23) Vinyl Acetate	3.51	43	418	397.255	ug/l #	78
24) 1,1-Dichloroethane	3.13	63	86	63.500	ug/l #	89
25) 2-Butanone	4.73	43	560	2028.527	ug/l #	57
26) 2,2-Dichloropropane	3.79	77	611	868.754	ug/l	87
27) cis-1,2-Dichloroethene	3.79	96	159	156.869	ug/l #	31
28) Bromochloromethane	4.01	49	92	161.201	ug/l #	2
29) Tetrahydrofuran	4.45	42	823	6784.790	ug/l #	43
30) Chloroform	4.16	83	128	75.267	ug/l #	18
31) Cyclohexane	4.06	56	168	130.365	ug/l #	7
32) 1,1,1-Trichloroethane	4.27	97	69	51.677	ug/l #	30
36) 1,1-Dichloropropene	4.67	75	76	48.457	ug/l #	41
37) Ethyl Acetate	4.44	43	231	350.094	ug/l #	3
38) Carbon Tetrachloride	4.35	117	82	51.429	ug/l #	12
39) Methylcyclohexane	5.84	83	86	46.972	ug/l #	15

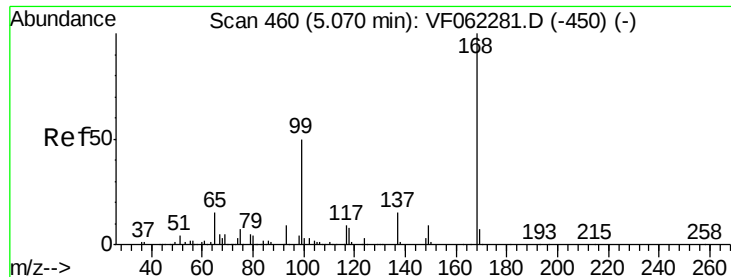
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042519\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	4.99	78	104	27.446	ug/l #	51
41) Methacrylonitrile	5.11	41	586	1598.645	ug/l #	54
42) 1,2-Dichloroethane	5.34	62	67	55.812	ug/l #	1
43) Isopropyl Acetate	7.31	43	1525	2264.824	ug/l #	46
44) Trichloroethene	5.62	130	85	66.300	ug/l	3
45) 1,2-Dichloropropane	6.54	63	73	85.444	ug/l #	1
46) Dibromomethane	6.46	93	119	192.896	ug/l #	29
47) Bromodichloromethane	6.71	83	128	88.258	ug/l #	23
48) Methyl methacrylate	7.13	41	405	837.796	ug/l #	1
49) 1,4-Dioxane	7.34	88	71	12754.950	ug/l #	36
51) 4-Methyl-2-Pentanone	8.67	43	463	890.581	ug/l #	68
52) Toluene	8.09	92	79	36.130	ug/l	81
53) t-1,3-Dichloropropene	8.83	75	132	123.776	ug/l #	80
54) cis-1,3-Dichloropropene	7.71	75	60	43.917	ug/l #	27
55) 1,1,2-Trichloroethane	8.87	97	143	230.270	ug/l #	14
56) Ethyl methacrylate	9.06	69	95	139.248	ug/l #	1
57) 1,3-Dichloropropane	9.24	76	99	101.393	ug/l #	50
58) 2-Chloroethyl Vinyl ether	7.72	63	71	342.006	ug/l #	44
59) 2-Hexanone	9.91	43	1241	4130.896	ug/l #	28
60) Dibromochloromethane	9.24	129	69	68.459	ug/l #	11
66) 1,1,1,2-Tetrachloroethane	10.07	131	73	141.351	ug/l #	54
67) Ethyl Benzene	10.02	91	196	102.825	ug/l #	43
68) m/p-Xylenes	10.23	106	64	90.182	ug/l	79
69) o-Xylene	10.84	106	60	75.675	ug/l	63
70) Styrene	10.97	104	69	60.201	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.27 min Scan# 481

Delta R.T. 0.20 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

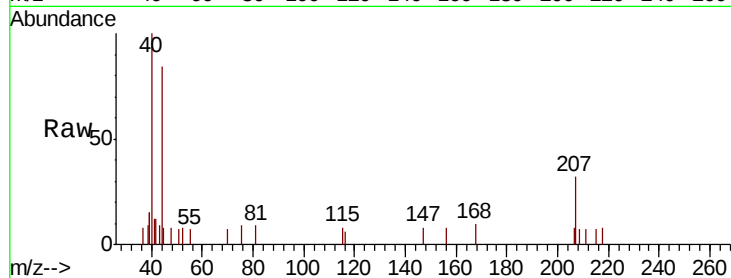
144-PENNINGTONRE

Tot Ion:168 Resp: 96

Ion Ratio Lower Upper

168 100

99 0.0 40.0 60.0#



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.27

150

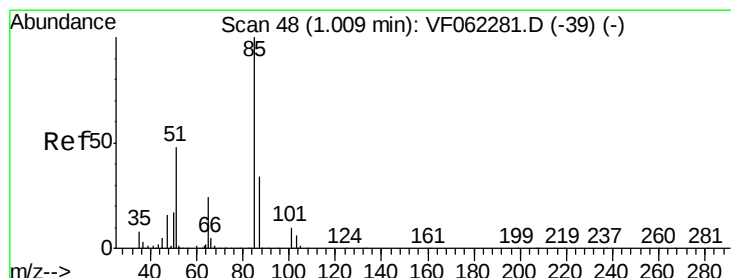
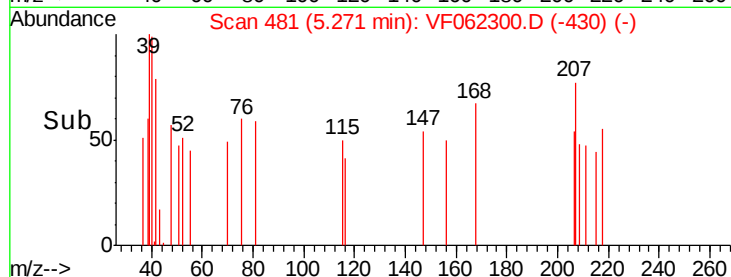
100

50

0

5.24 5.26 5.28 5.30

Time-->



#2

Dichlorodifluoromethane

Concen: 60.482 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.00 min

Lab File: VF062300.D

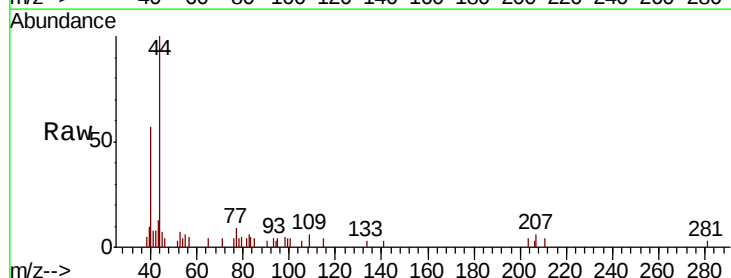
Acq: 25 Apr 2019 18:59

Tgt Ion: 85 Resp: 69

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

1.01

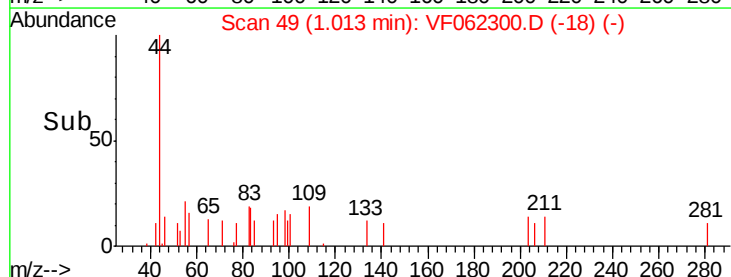
100

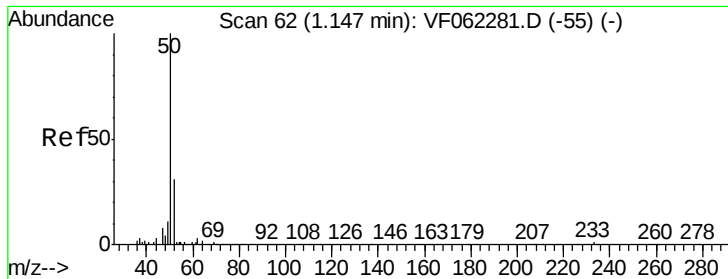
50

0

0.98 1.00 1.02 1.04

Time-->





#3

Chloromethane

Concen: 283.014 ug/l

RT: 1.22 min Scan# 70

Delta R.T. 0.07 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

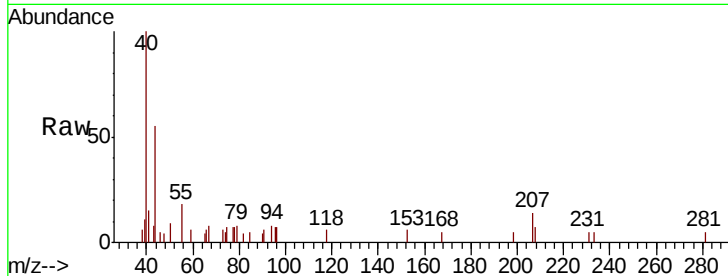
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Tot Ion: 50 Resp: 272

Ion Ratio Lower Upper

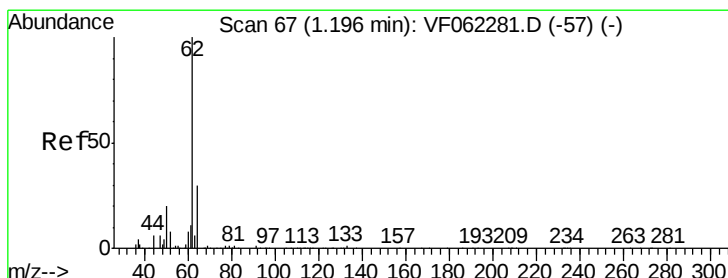
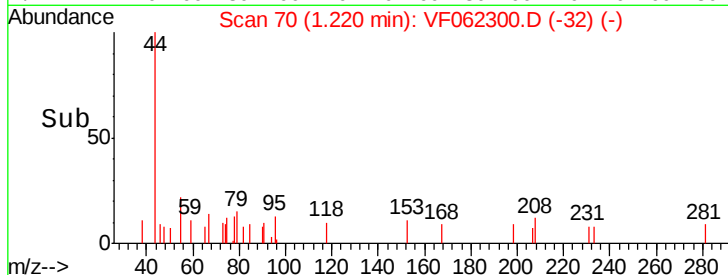
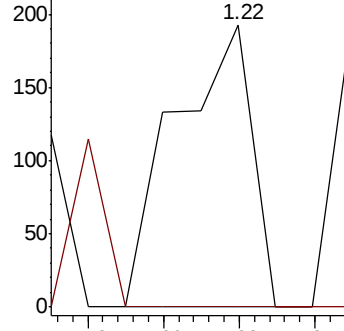
50 100

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: 80.199 ug/l

RT: 1.28 min Scan# 76

Delta R.T. 0.08 min

Lab File: VF062300.D

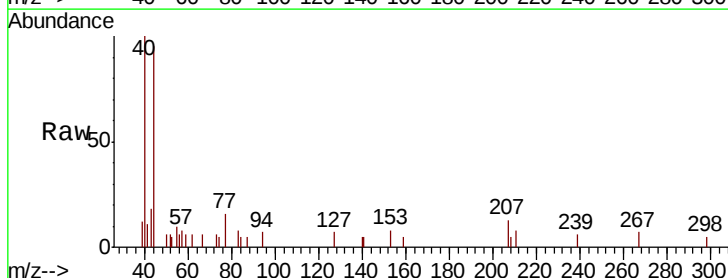
Acq: 25 Apr 2019 18:59

Tgt Ion: 62 Resp: 73

Ion Ratio Lower Upper

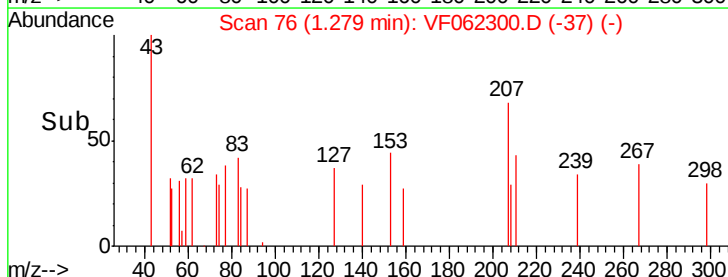
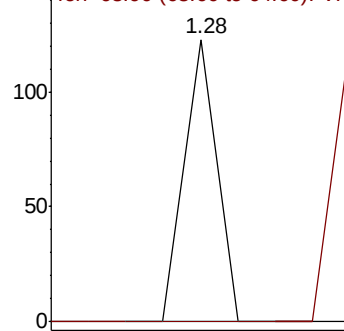
62 100

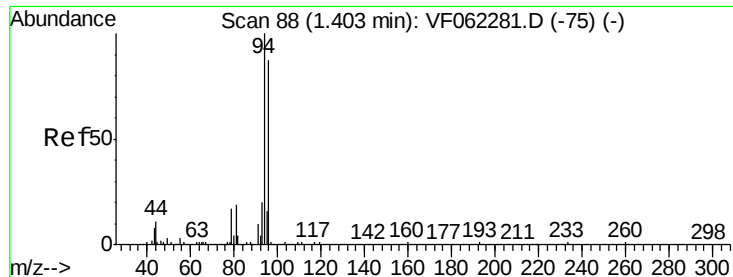
64 0.0 24.3 36.5#



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 63.90 (63.60 to 64.60): VF0





#5

Bromomethane

Concen: 333.257 ug/l

RT: 1.48 min Scan# 96

Delta R.T. 0.07 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

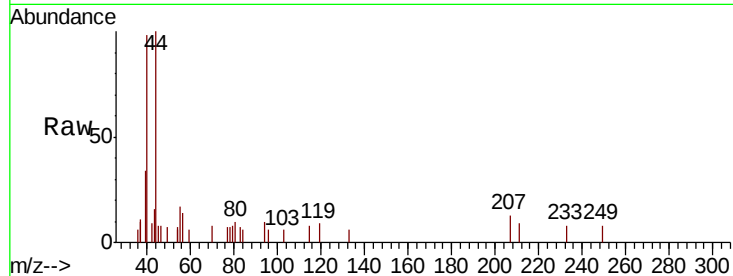
144-PENNINGTONRE

Tot Ion: 94 Resp: 206

Ion Ratio Lower Upper

94 100

96 63.3 69.5 104.3#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

300

250

200

150

100

50

0

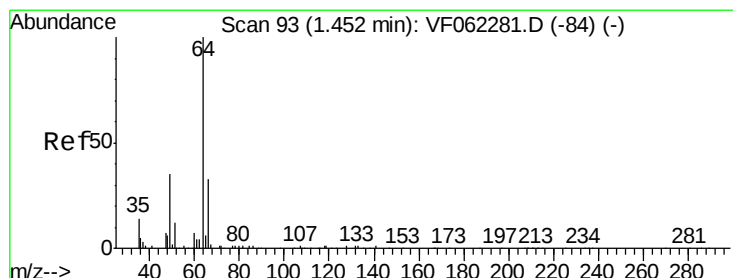
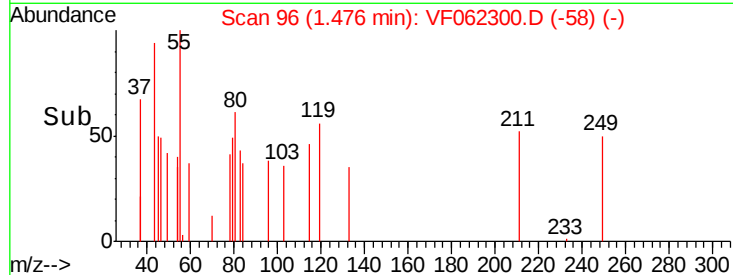
1.44

1.46

1.48

1.50

Time-->



#6

Chloroethane

Concen: 170.420 ug/l

RT: 1.54 min Scan# 102

Delta R.T. 0.08 min

Lab File: VF062300.D

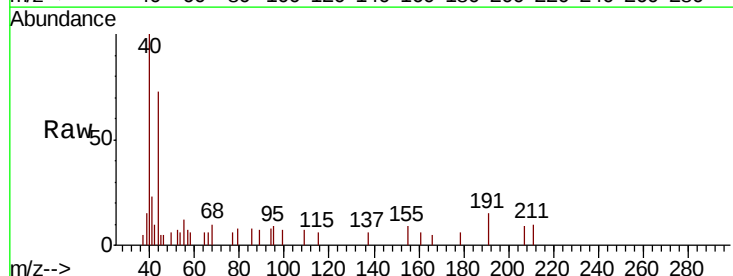
Acq: 25 Apr 2019 18:59

Tgt Ion: 64 Resp: 68

Ion Ratio Lower Upper

64 100

66 96.5 26.0 39.0#



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0

150

100

50

0

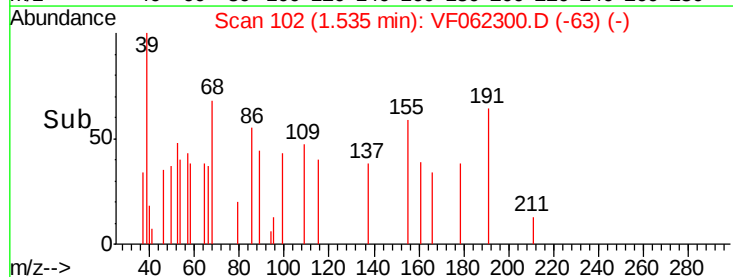
1.50

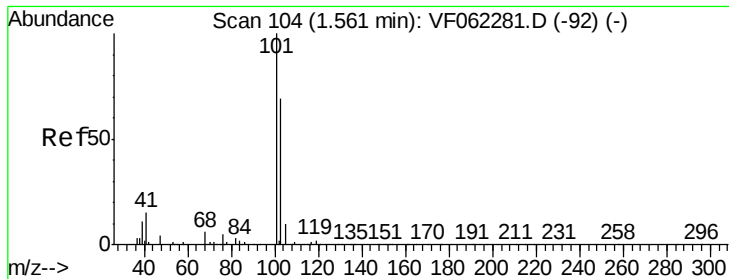
1.52

1.54

1.56

Time-->



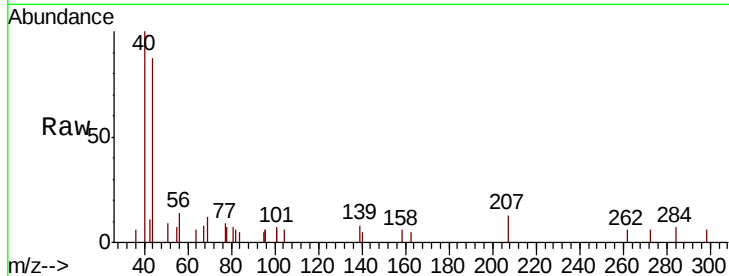


#7

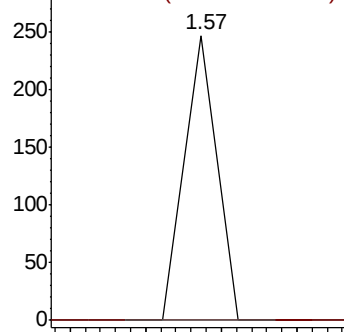
Trichlorofluoromethane
 Concen: 100.941 ug/l
 RT: 1.57 min Scan# 106
 Delta R.T. 0.01 min
 Lab File: VF062300.D
 Acq: 25 Apr 2019 18:59

Instrument :
 MSVOA_F
 ClientSampleId :
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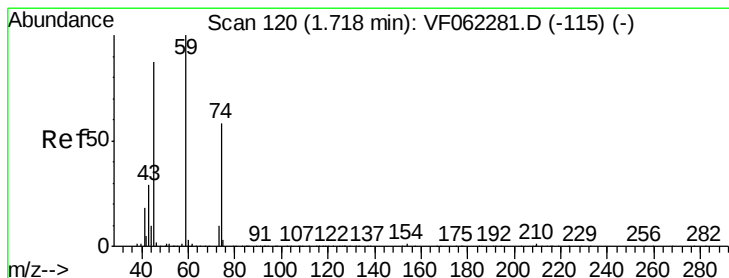
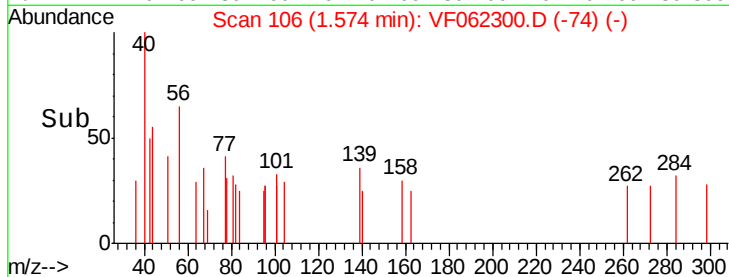
Tot Ion:101 Resp: 146
 Ion Ratio Lower Upper
 101 100
 103 0.0 55.0 82.6#



Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 102.80 (102.50 to 103.50): V



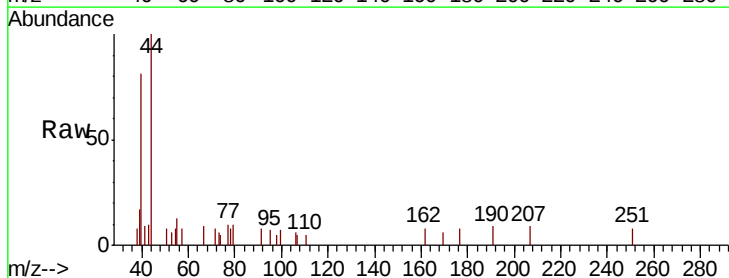
Time-->



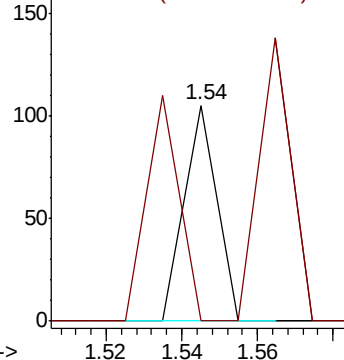
#8

Diethyl Ether
 Concen: 236.611 ug/l
 RT: 1.54 min Scan# 103
 Delta R.T. -0.17 min
 Lab File: VF062300.D
 Acq: 25 Apr 2019 18:59

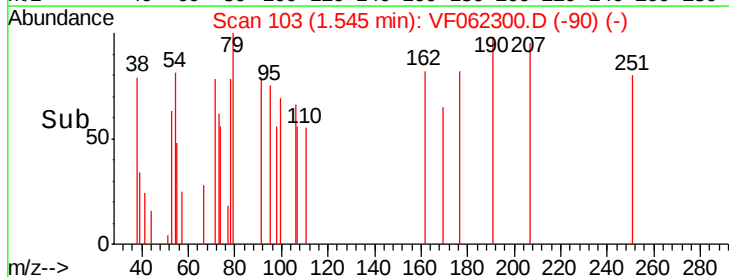
Tgt Ion: 74 Resp: 62
 Ion Ratio Lower Upper
 74 100
 45 104.8 74.0 222.0

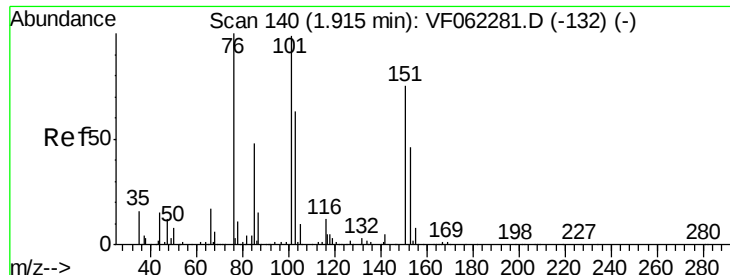


Abundance Ion 74.00 (73.70 to 74.70): VF0
 Ion 45.00 (44.70 to 45.70): VF0



Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 78.220 ug/l

RT: 2.06 min Scan# 155

Delta R.T. 0.14 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

144-PENNINGTONRE

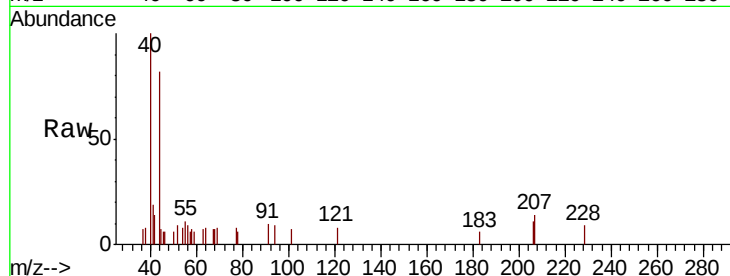
Tot Ion:101 Resp: 71

Ion Ratio Lower Upper

101 100

85 107.0 36.5 54.7#

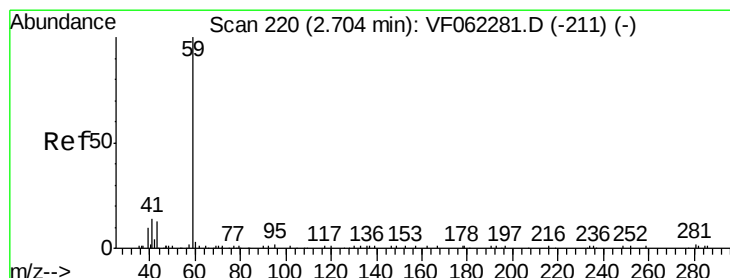
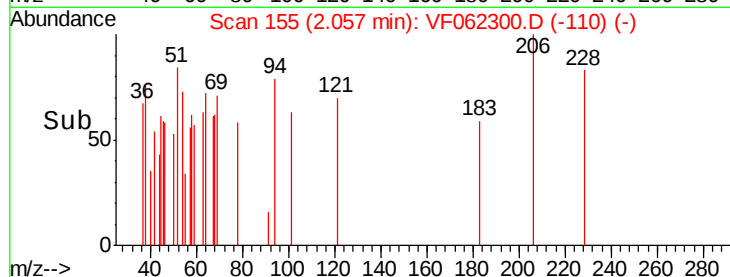
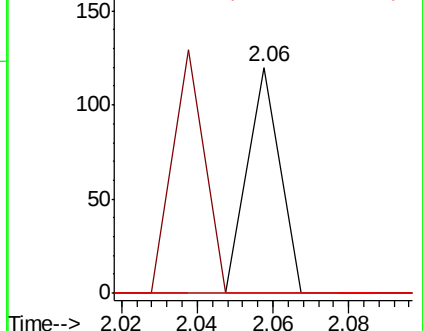
151 0.0 59.2 88.8#



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



#11

Tert butyl alcohol

Concen: 1679.467 ug/l

RT: 2.77 min Scan# 227

Delta R.T. 0.06 min

Lab File: VF062300.D

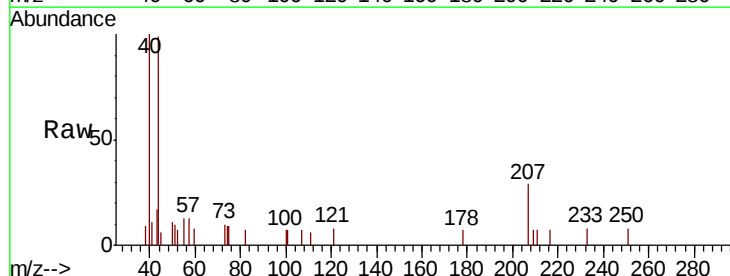
Acq: 25 Apr 2019 18:59

Tgt Ion: 59 Resp: 79

Ion Ratio Lower Upper

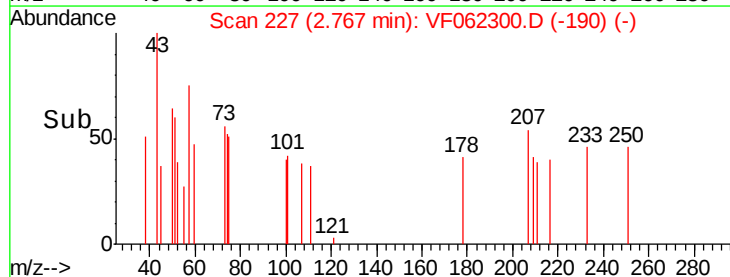
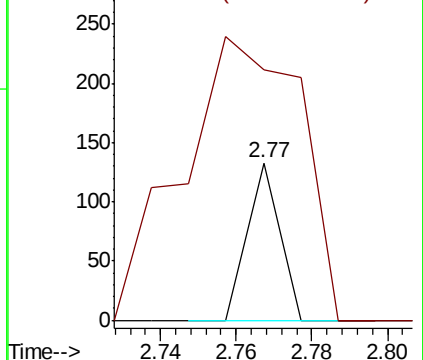
59 100

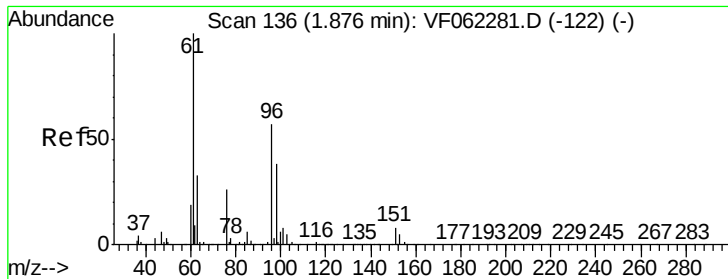
57 660.8 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#12

1,1-Dichloroethene

Concen: 148.166 ug/l

RT: 1.95 min Scan# 144

Delta R.T. 0.07 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

144-PENNINGTONRE

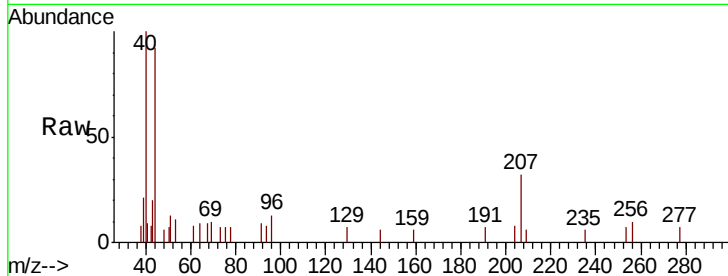
Tot Ion: 96 Resp: 120

Ion Ratio Lower Upper

96 100

61 66.5 141.1 211.7#

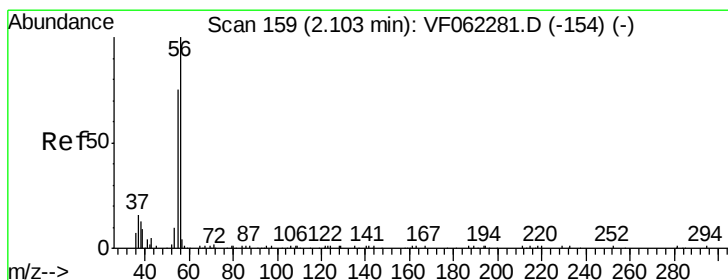
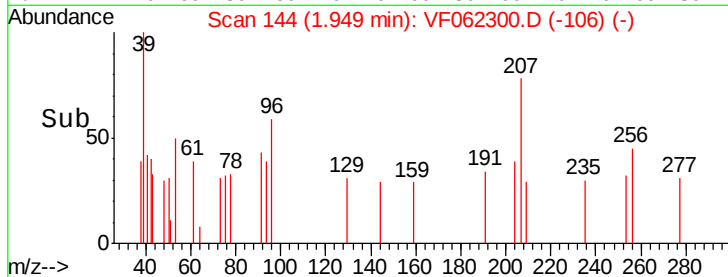
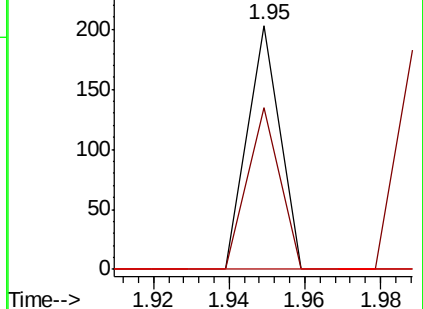
98 0.0 53.4 80.0#



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



#13

Acrolein

Concen: 11322.563 ug/l

RT: 2.15 min Scan# 164

Delta R.T. 0.04 min

Lab File: VF062300.D

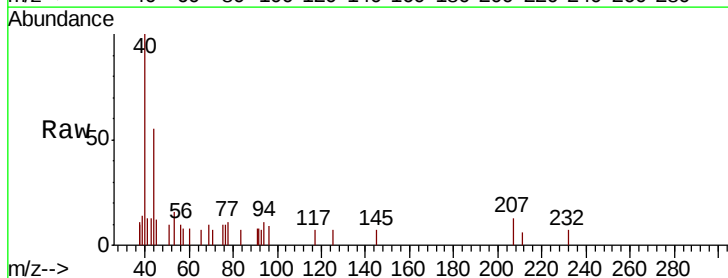
Acq: 25 Apr 2019 18:59

Tgt Ion: 56 Resp: 516

Ion Ratio Lower Upper

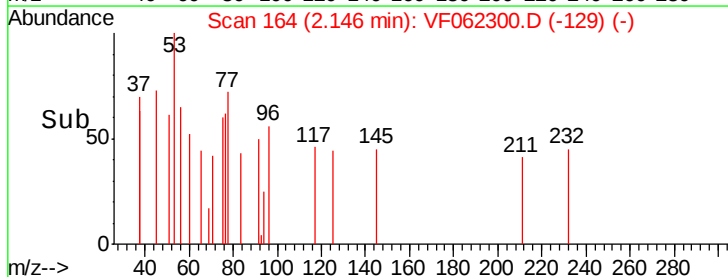
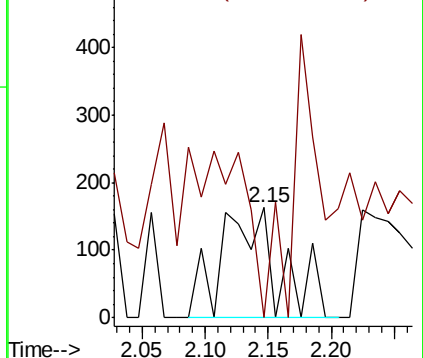
56 100

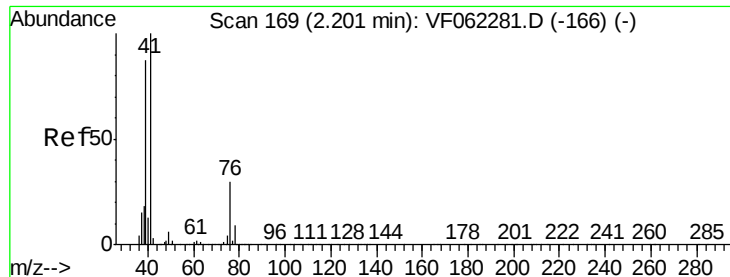
55 0.0 62.3 93.5#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

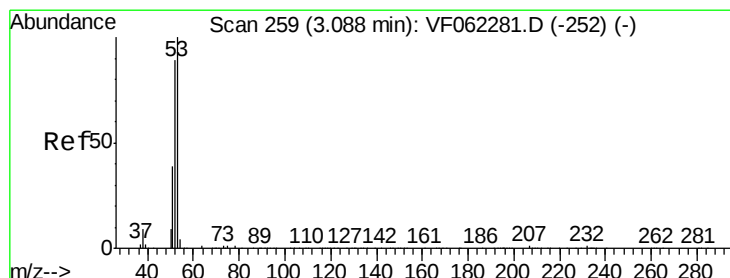
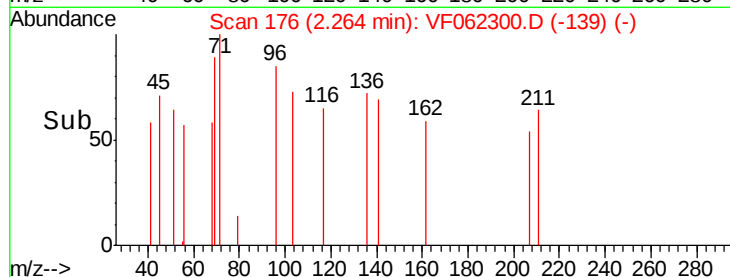
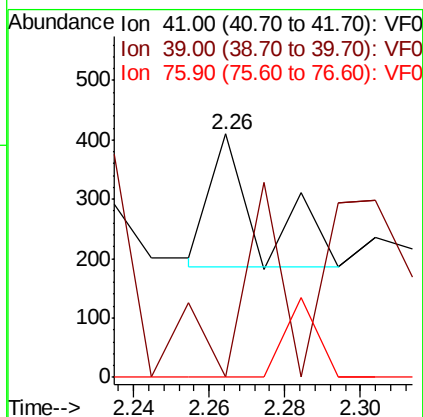
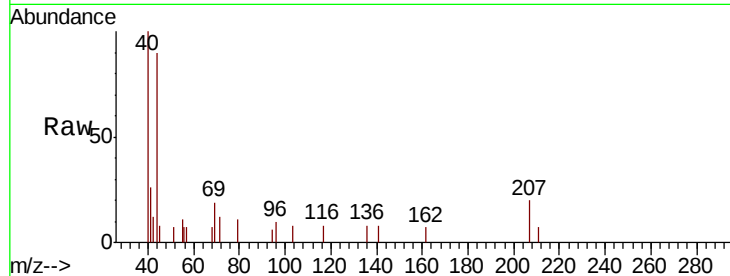




#14
Allvl chloride
Concen: 230.309 ug/l
RT: 2.26 min Scan# 176
Delta R.T. 0.06 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

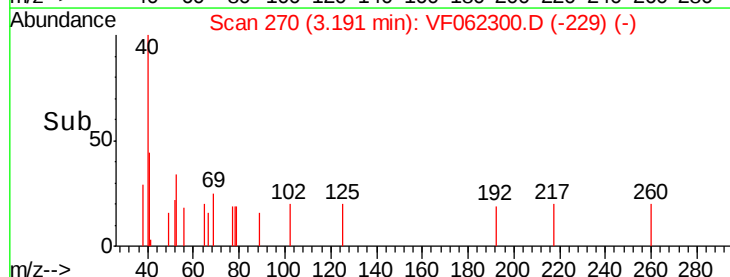
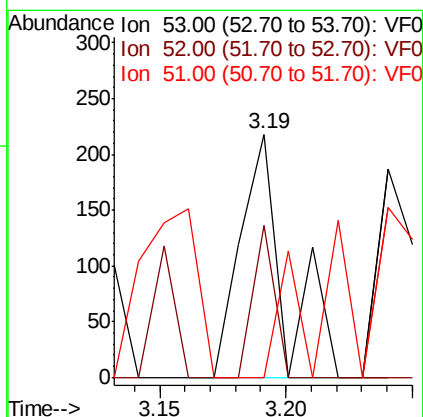
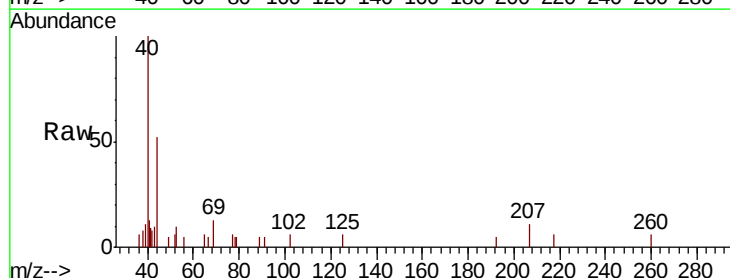
Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

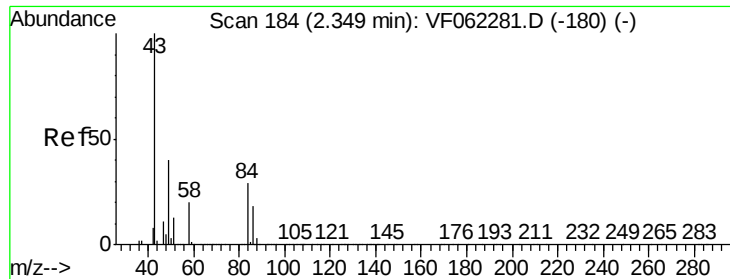
Tot Ion: 41 Resp: 203
Ion Ratio Lower Upper
41 100
39 96.1 50.3 75.5#
76 39.4 14.8 22.2#



#15
Acrylonitrile
Concen: 2064.747 ug/l
RT: 3.19 min Scan# 270
Delta R.T. 0.10 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Tgt Ion: 53 Resp: 269
Ion Ratio Lower Upper
53 100
52 29.7 70.6 105.8#
51 24.9 32.6 48.8#





#16

Acetone

Concen: 2234.293 ug/l

RT: 2.41 min Scan# 191

Delta R.T. 0.06 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

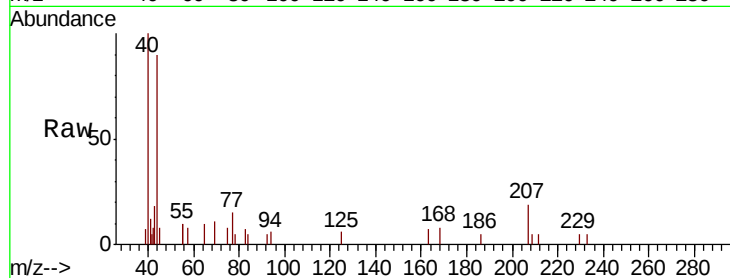
144-PENNINGTONRE

Tot Ion: 43 Resp: 389

Ion Ratio Lower Upper

43 100

58 0.0 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.41

300

200

100

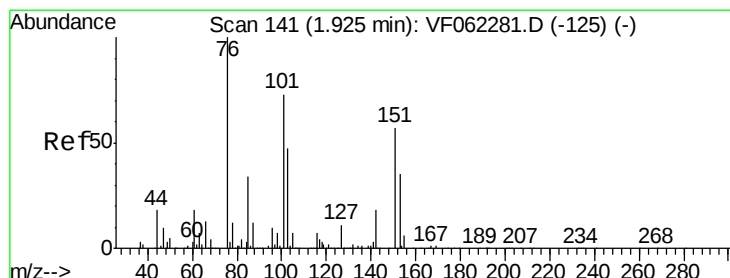
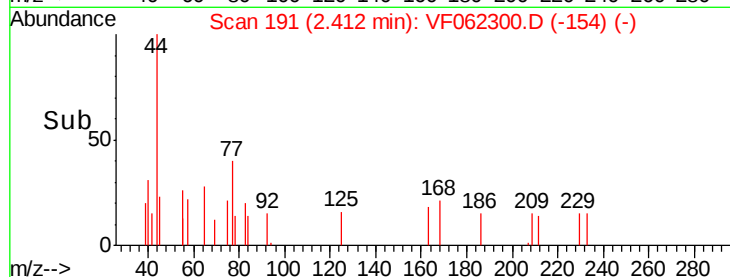
0

2.40

2.42

2.44

Time-->



#17

Carbon Disulfide

Concen: 77.879 ug/l

RT: 2.04 min Scan# 153

Delta R.T. 0.11 min

Lab File: VF062300.D

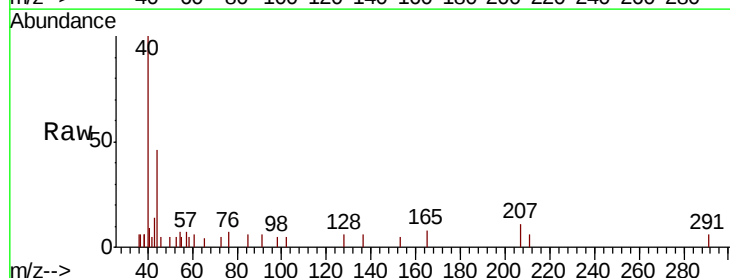
Acq: 25 Apr 2019 18:59

Tgt Ion: 76 Resp: 166

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

200

150

100

50

0

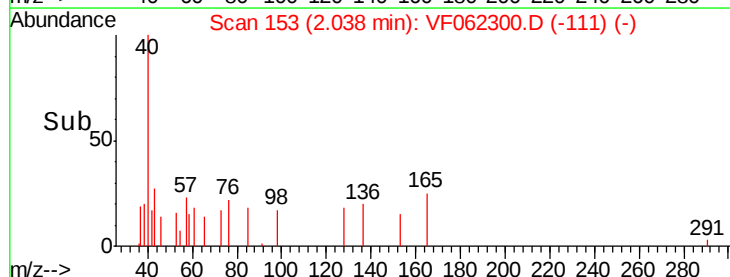
2.00

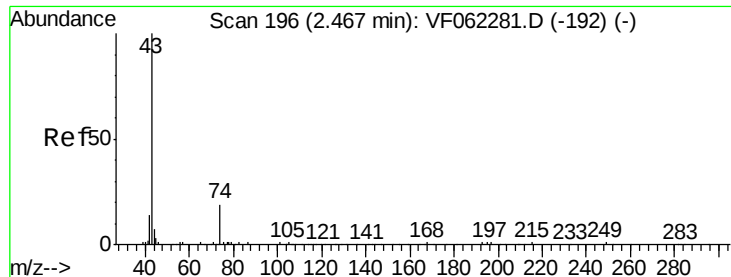
2.02

2.04

2.06

Time-->

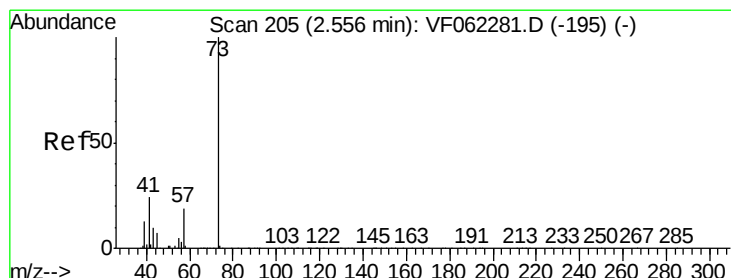
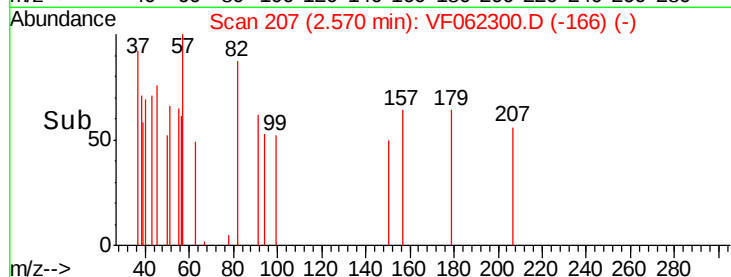
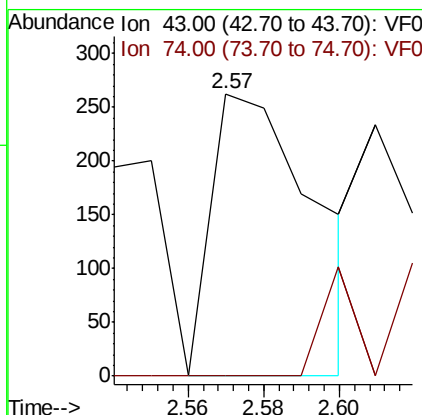
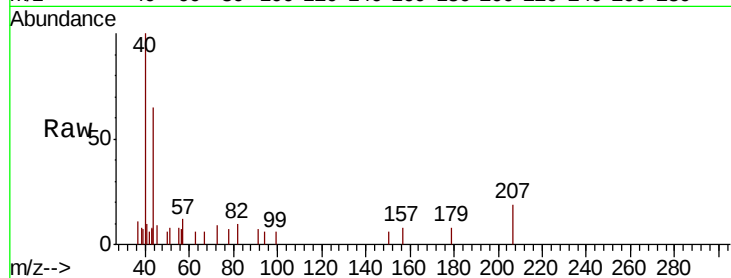




#18
Methyl Acetate
Concen: 1613.299 ug/l
RT: 2.57 min Scan# 207
Delta R.T. 0.10 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

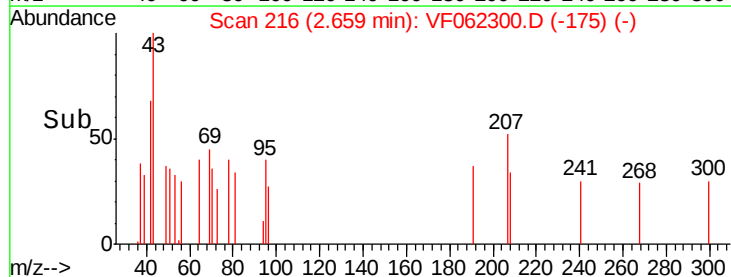
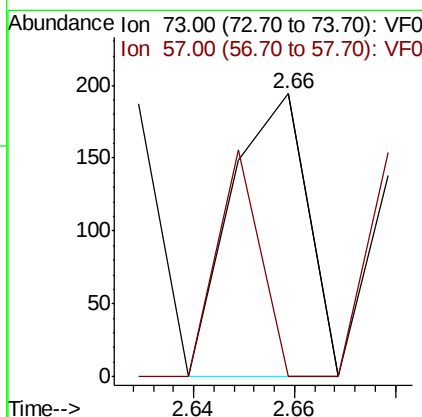
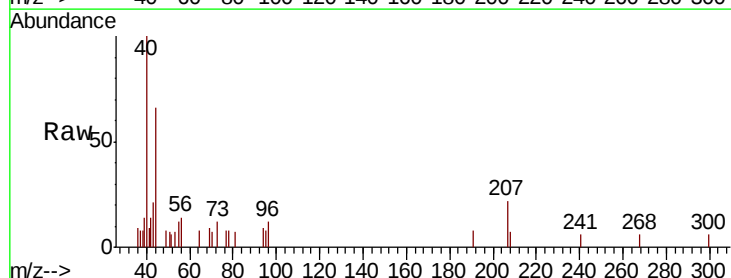
Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

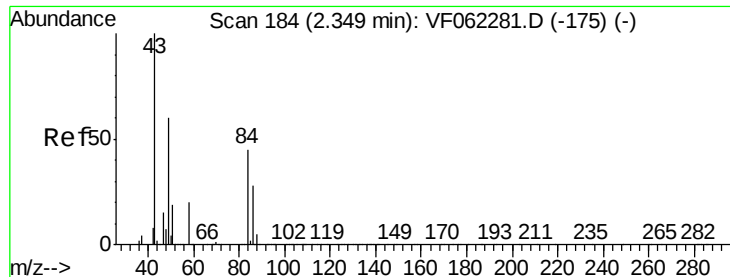
Tot Ion: 43 Resp: 492
Ion Ratio Lower Upper
43 100
74 0.0 14.4 21.6#



#19
Methyl tert-butyl Ether
Concen: 131.475 ug/l
RT: 2.66 min Scan# 216
Delta R.T. 0.10 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Tgt Ion: 73 Resp: 203
Ion Ratio Lower Upper
73 100
57 0.0 15.5 23.3#

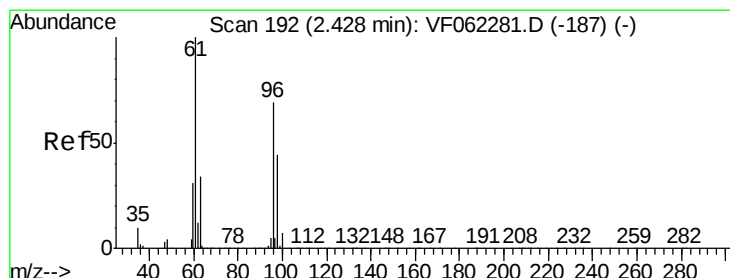
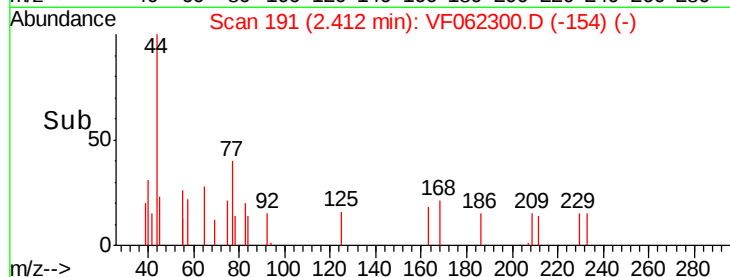
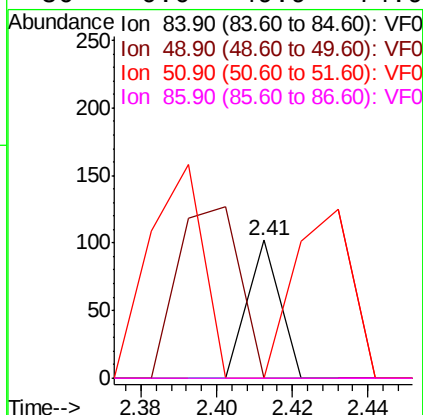
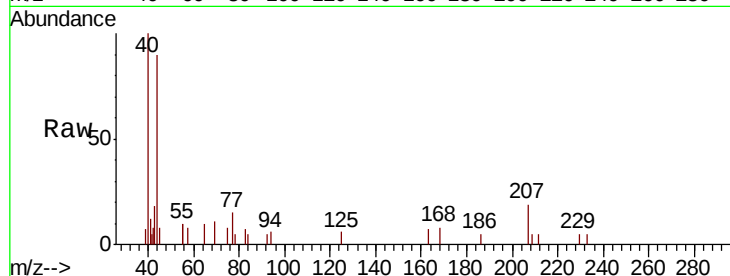




#20
Methvlene Chloride
Concen: 84.339 ug/l
RT: 2.41 min Scan# 191
Delta R.T. 0.06 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

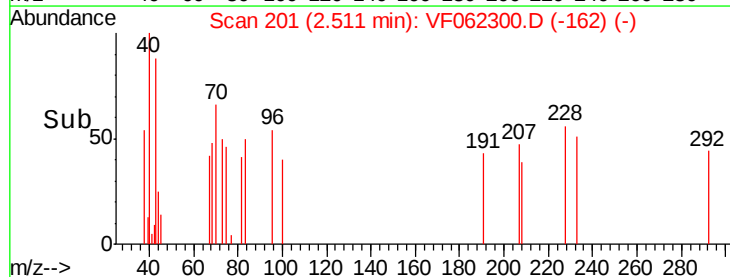
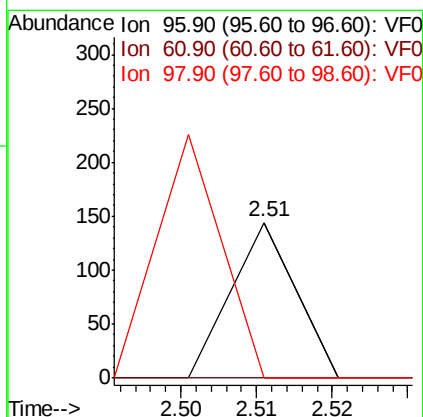
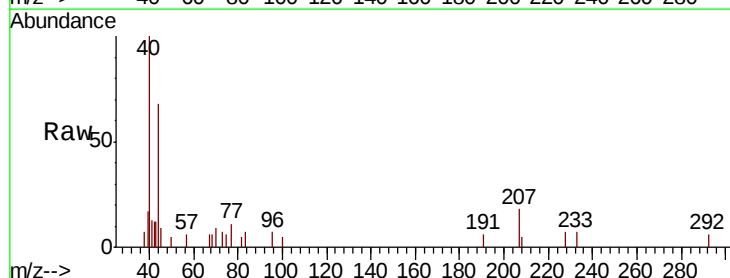
Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

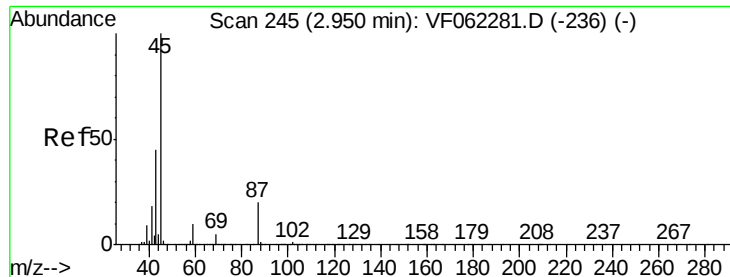
Tot Ion: 84 Resp: 60
Ion Ratio Lower Upper
84 100
49 0.0 112.1 168.1#
51 0.0 35.9 53.9#
86 0.0 49.9 74.9#



#21
trans-1,2-Dichloroethene
Concen: 106.198 ug/l
RT: 2.51 min Scan# 201
Delta R.T. 0.08 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Tgt Ion: 96 Resp: 85
Ion Ratio Lower Upper
96 100
61 0.0 116.2 174.2#
98 0.0 51.4 77.0#



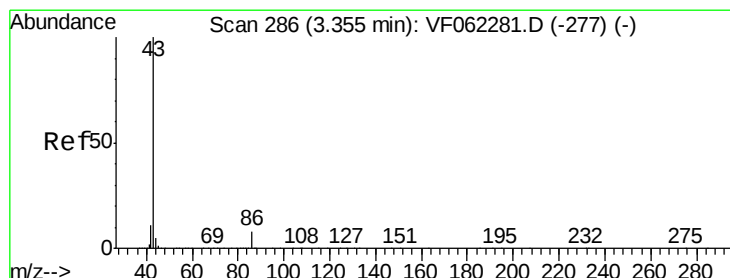
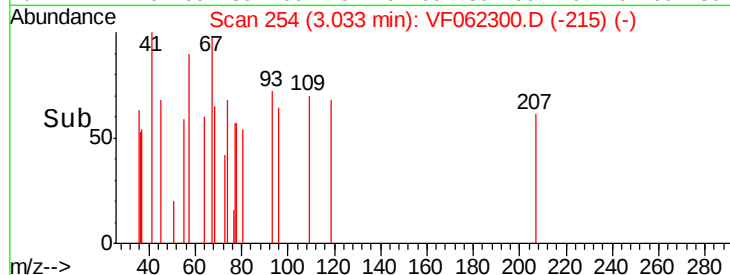
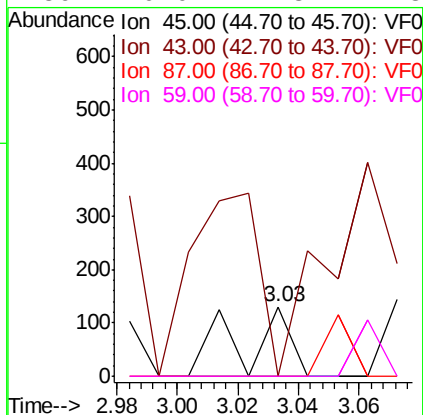
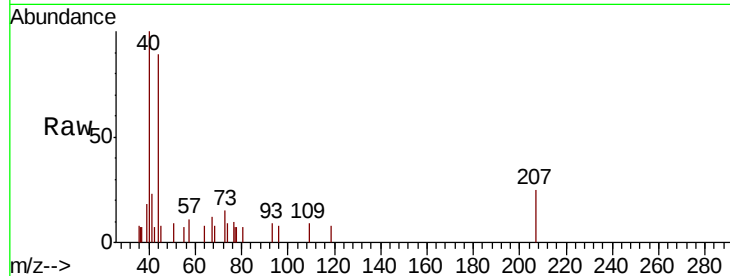


#22

Diisopropyl ether
Concen: 63.637 ug/l
RT: 3.03 min Scan# 254
Delta R.T. 0.08 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

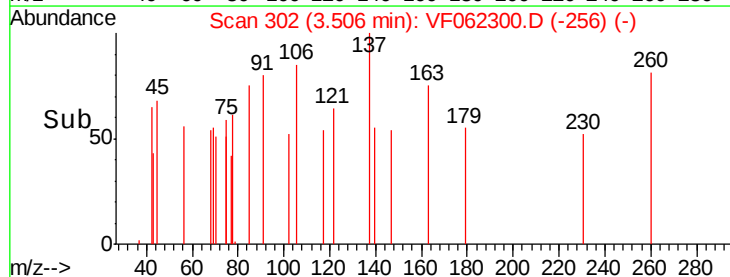
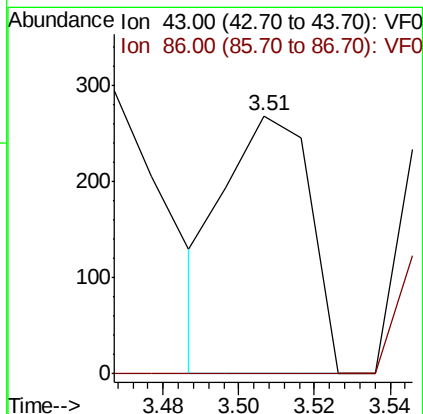
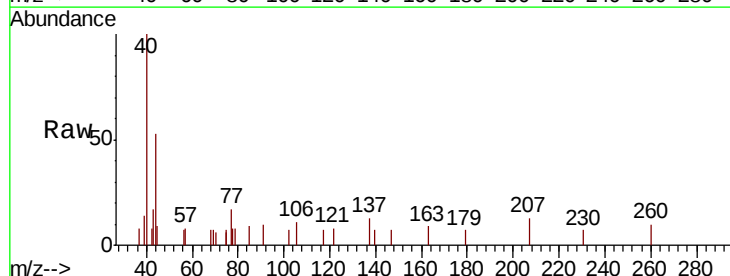
Tot Ion:	45	Resp:	151
Ion	Ratio	Lower	Upper
45	100		
43	0.0	36.2	54.2#
87	0.0	15.8	23.6#
59	0.0	7.8	11.8#

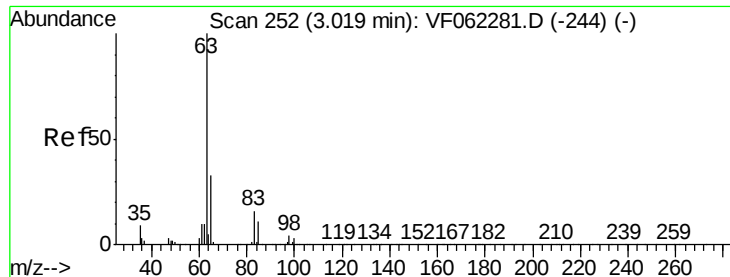


#23

Vinyl Acetate
Concen: 397.255 ug/l
RT: 3.51 min Scan# 302
Delta R.T. 0.15 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Tgt Ion:	43	Resp:	418
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#





#24

1,1-Dichloroethane

Concen: 63.500 ug/l

RT: 3.13 min Scan# 264

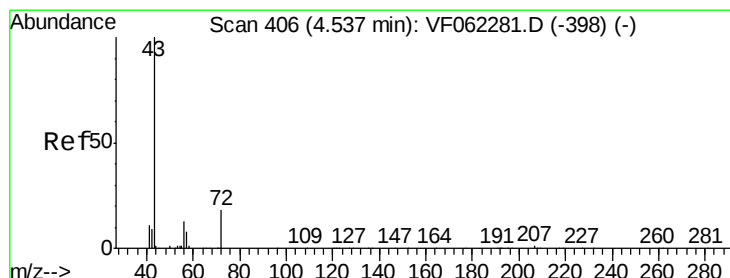
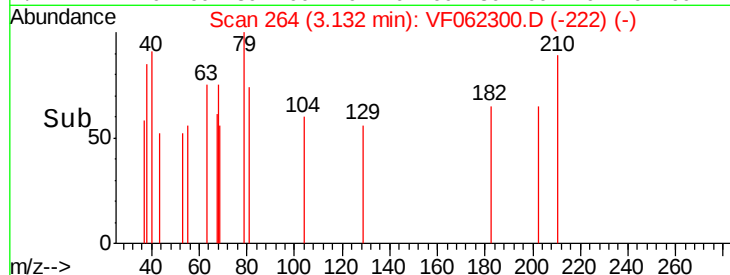
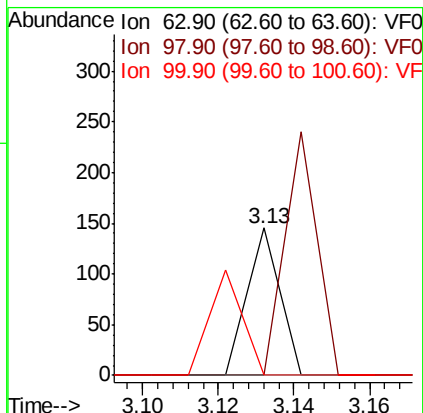
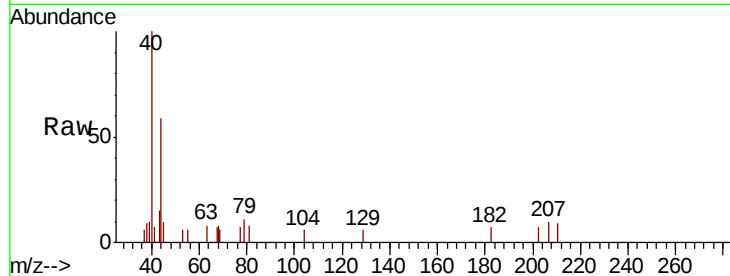
Delta R.T. 0.11 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

Tot Ion:	63	Resp:	86
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.2#
100	0.0	1.5	4.5#



#25

2-Butanone

Concen: 2028.527 ug/l

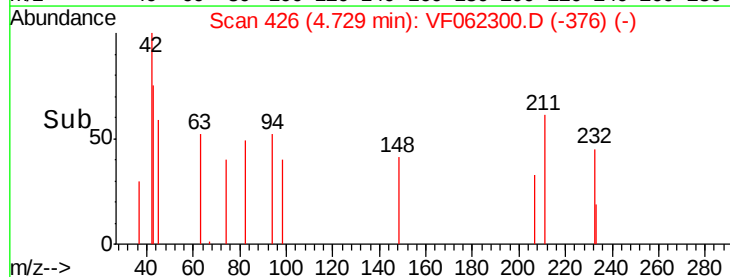
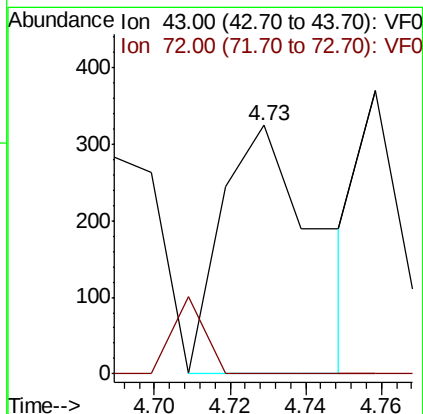
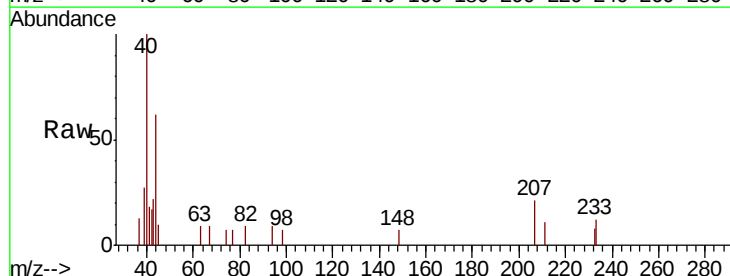
RT: 4.73 min Scan# 426

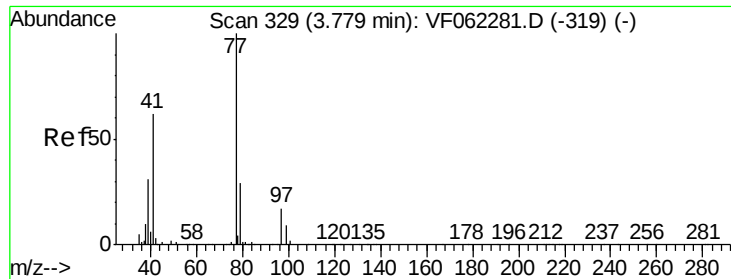
Delta R.T. 0.19 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Tgt Ion:	43	Resp:	560
Ion	Ratio	Lower	Upper
43	100		
72	0.0	15.8	23.6#





#26

2,2-Dichloropropane

Concen: 868.754 ug/l

RT: 3.79 min Scan# 331

Delta R.T. 0.01 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

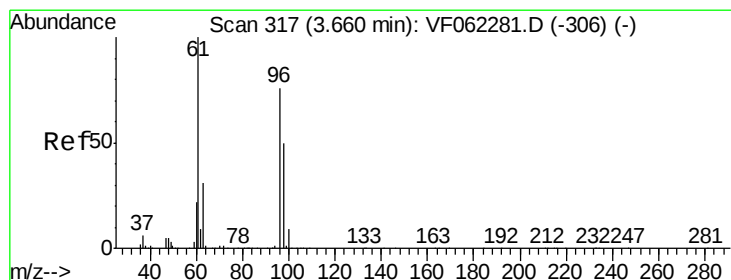
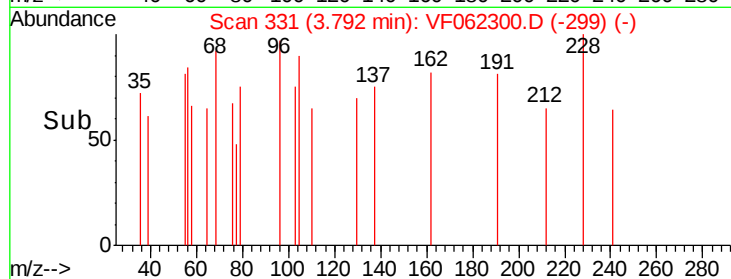
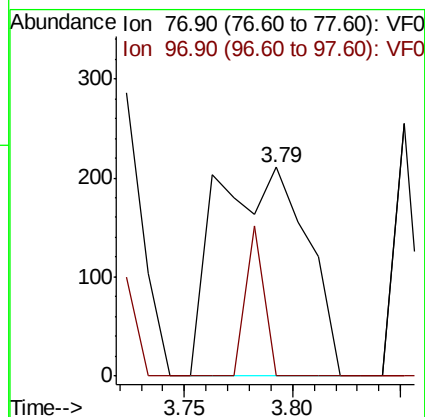
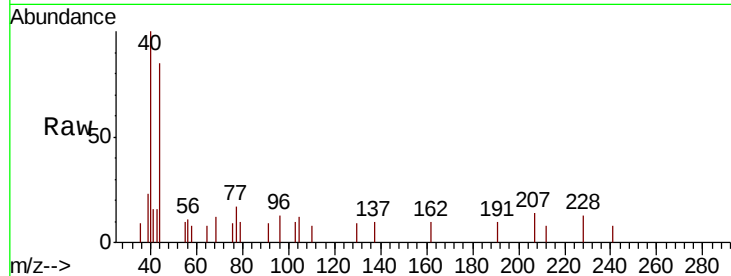
144-PENNINGTONRE

Tot Ion: 77 Resp: 611

Ion Ratio Lower Upper

77 100

97 14.6 10.3 30.8



#27

cis-1,2-Dichloroethene

Concen: 156.869 ug/l

RT: 3.79 min Scan# 331

Delta R.T. 0.13 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

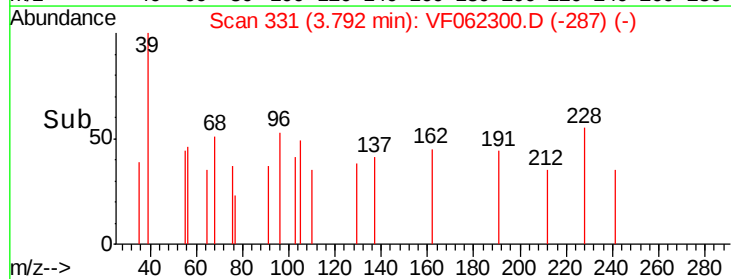
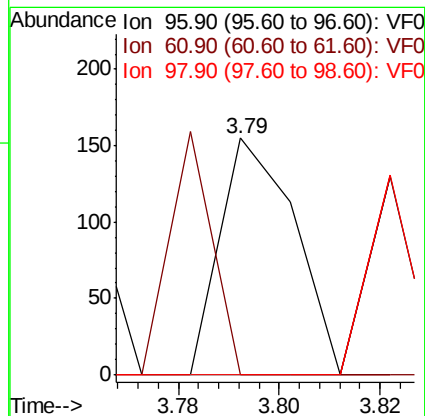
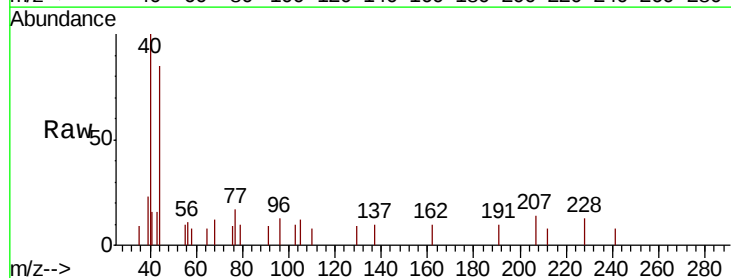
Tgt Ion: 96 Resp: 159

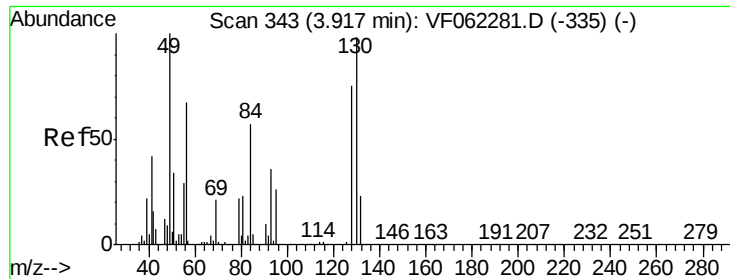
Ion Ratio Lower Upper

96 100

61 59.1 0.0 257.6

98 0.0 0.0 137.4





#28

Bromochloromethane

Concen: 161.201 ug/l

RT: 4.01 min Scan# 353

Delta R.T. 0.09 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

144-PENNINGTONRE

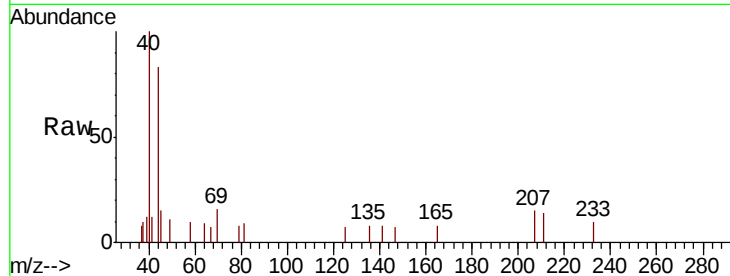
Tot Ion: 49 Resp: 92

Ion Ratio Lower Upper

49 100

129 65.2 0.0 0.0#

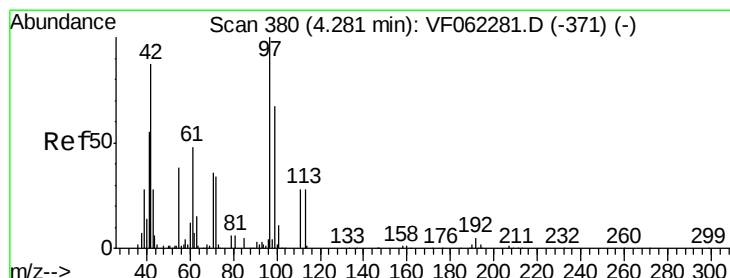
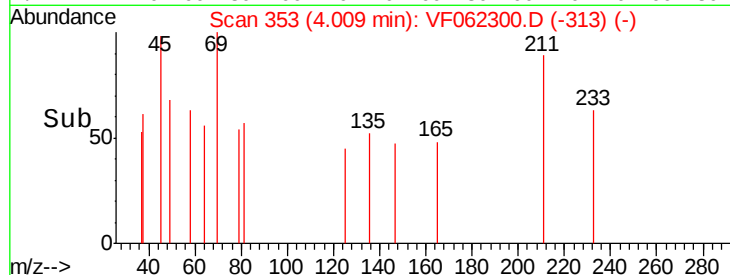
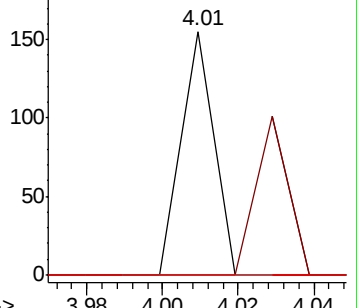
130 0.0 77.0 115.4#



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: 6784.790 ug/l

RT: 4.45 min Scan# 398

Delta R.T. 0.17 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

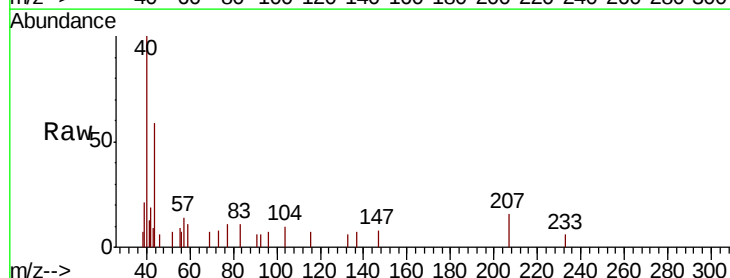
Tgt Ion: 42 Resp: 823

Ion Ratio Lower Upper

42 100

72 0.0 29.3 43.9#

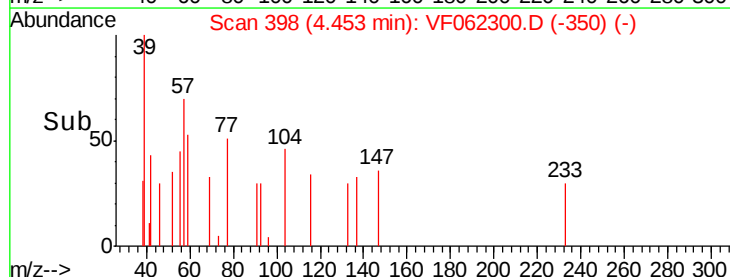
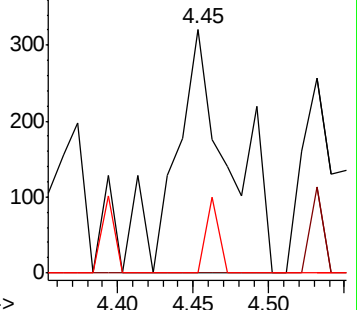
71 7.2 31.2 46.8#

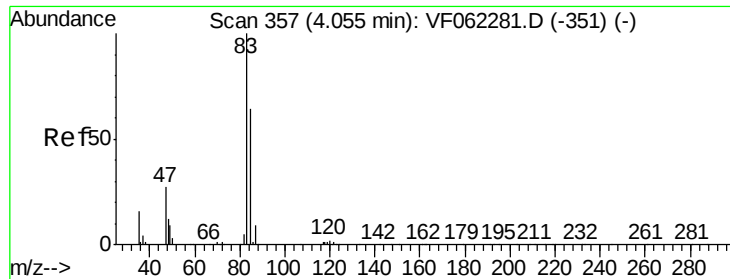


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

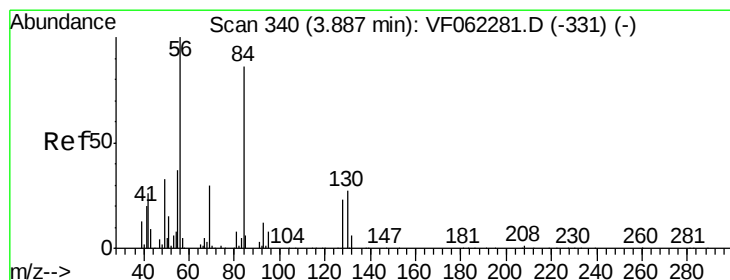
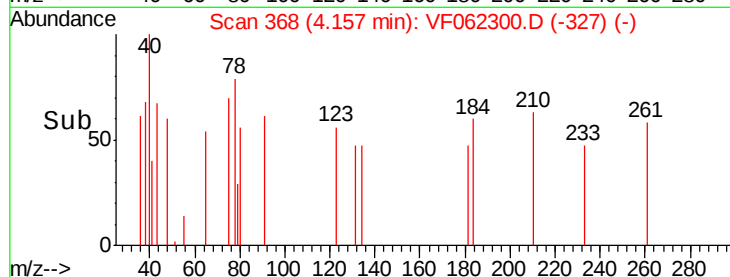
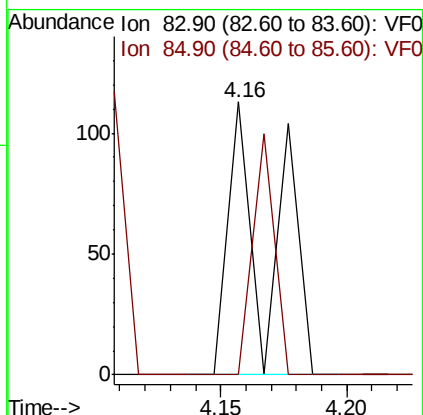
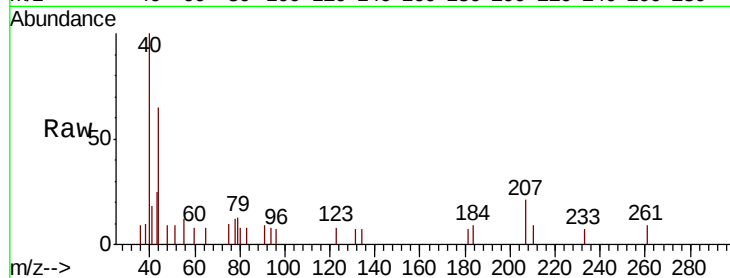




#30
Chloroform
Concen: 75.267 ug/l
RT: 4.16 min Scan# 368
Delta R.T. 0.10 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

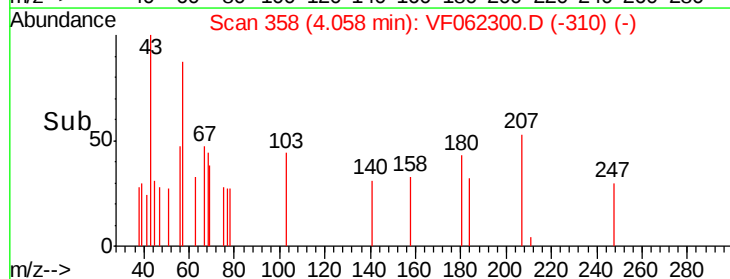
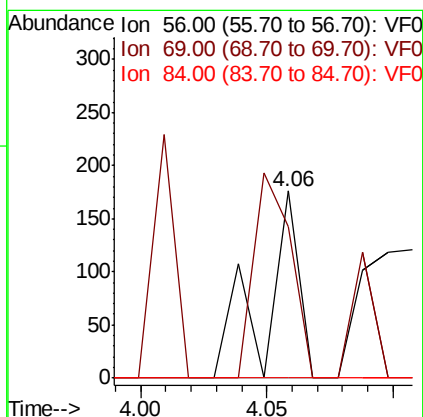
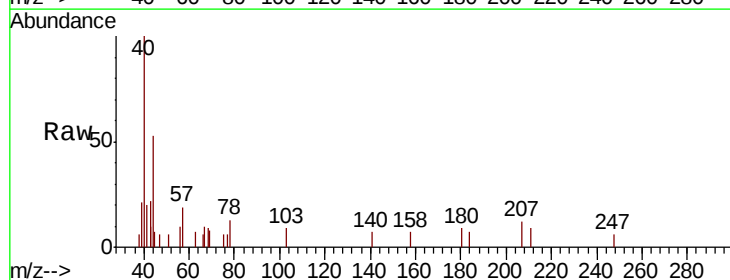
Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

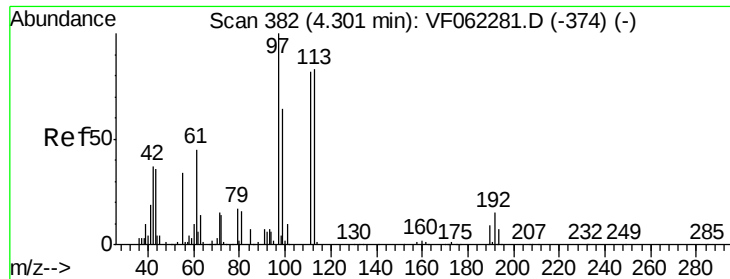
Tot Ion: 83 Resp: 128
Ion Ratio Lower Upper
83 100
85 0.0 51.1 76.7#



#31
Cyclohexane
Concen: 130.365 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.17 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Tgt Ion: 56 Resp: 168
Ion Ratio Lower Upper
56 100
69 81.3 24.3 36.5#
84 0.0 68.5 102.7#





#32

1,1,1-Trichloroethane

Concen: 51.677 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.04 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

144-PENNINGTONRE

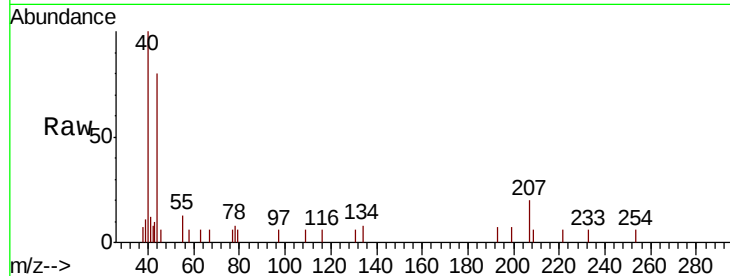
Tot Ion: 97 Resp: 69

Ion Ratio Lower Upper

97 100

99 0.0 41.6 62.4#

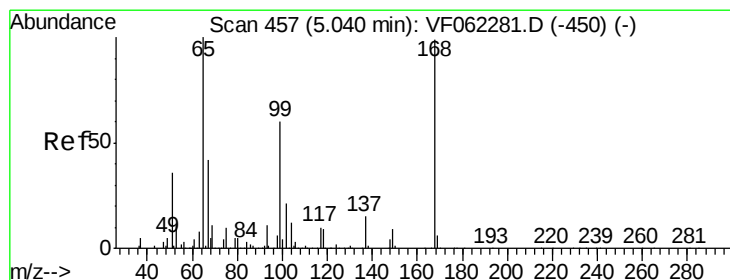
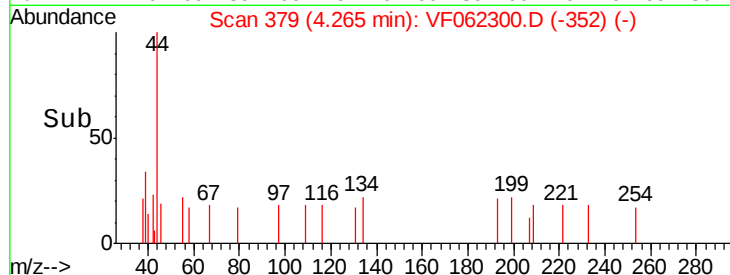
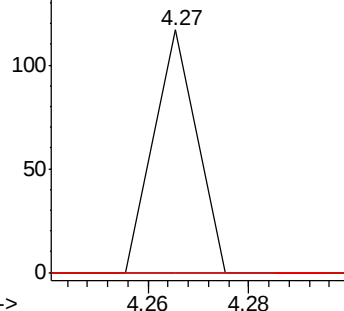
61 0.0 31.6 47.4#



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: 92.591 ug/l

RT: 5.22 min Scan# 476

Delta R.T. 0.18 min

Lab File: VF062300.D

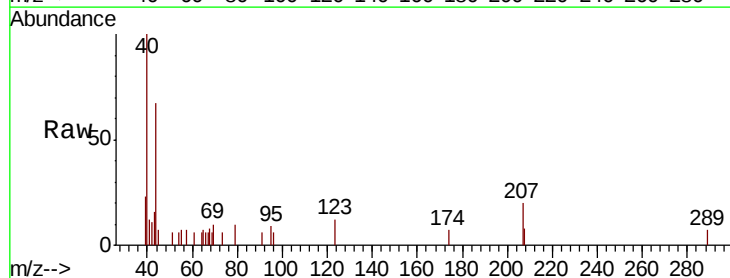
Acq: 25 Apr 2019 18:59

Tgt Ion: 65 Resp: 72

Ion Ratio Lower Upper

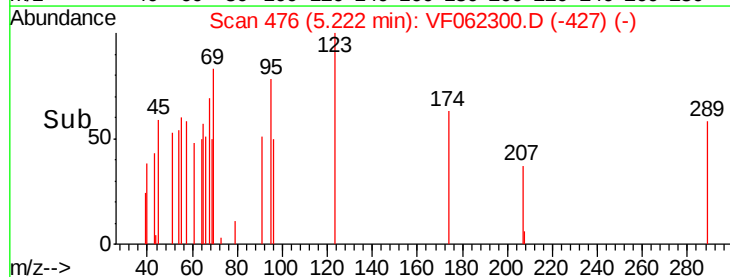
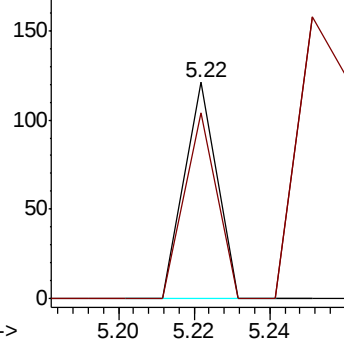
65 100

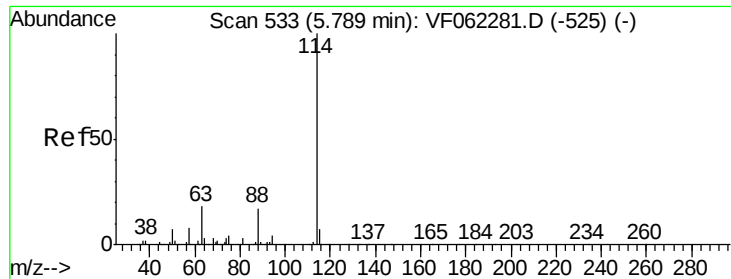
67 84.7 0.0 98.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.98 min Scan# 553

Delta R.T. 0.19 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

144-PENNINGTONRE

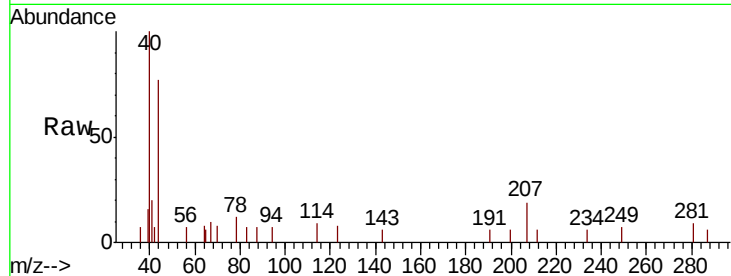
Tot Ion:114 Resp: 170

Ion Ratio Lower Upper

114 100

63 0.0 0.0 35.6

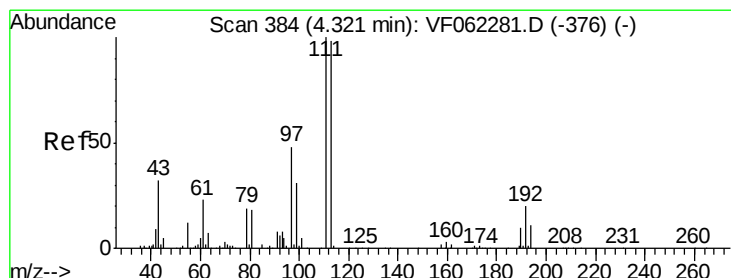
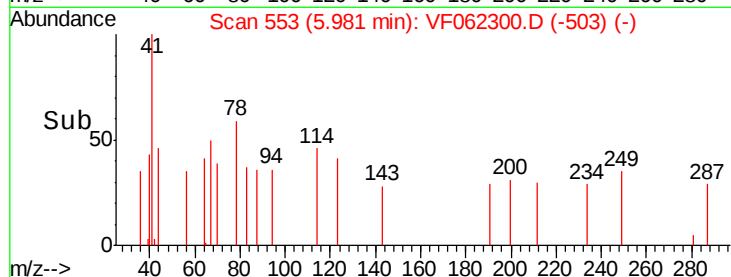
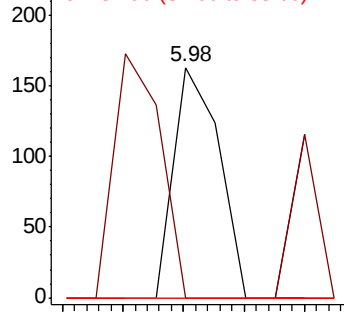
88 0.0 0.0 34.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35

Dibromofluoromethane

Concen: 65.849 ug/l

RT: 4.72 min Scan# 425

Delta R.T. 0.40 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

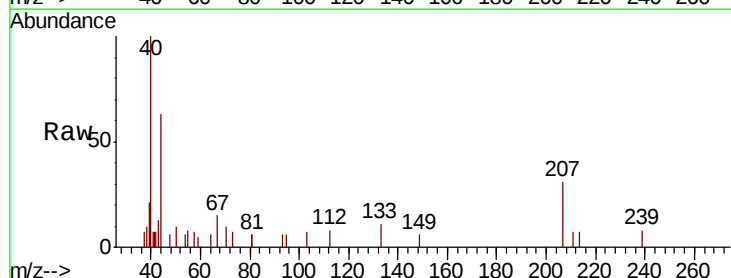
Tgt Ion:113 Resp: 83

Ion Ratio Lower Upper

113 100

111 0.0 81.4 122.2#

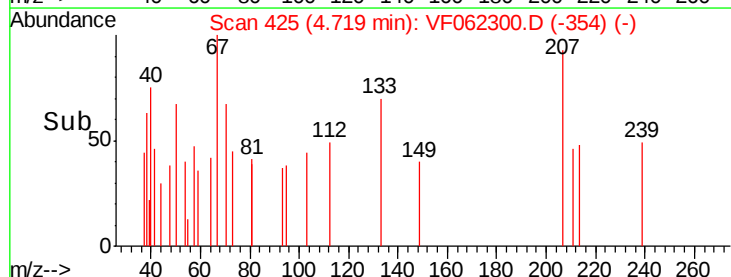
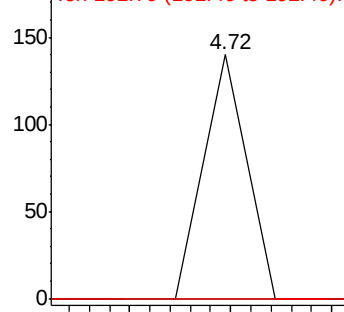
192 0.0 17.0 25.4#

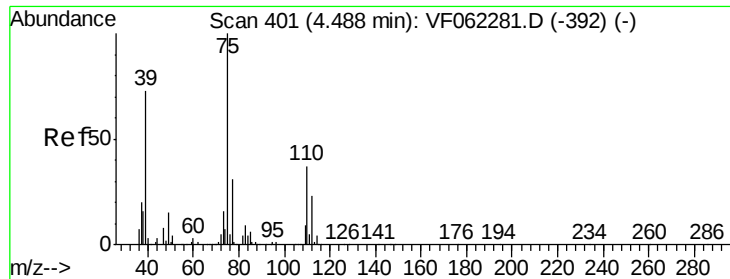


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 48.457 ug/l

RT: 4.67 min Scan# 420

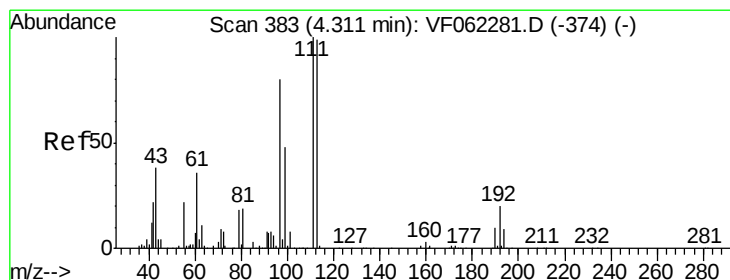
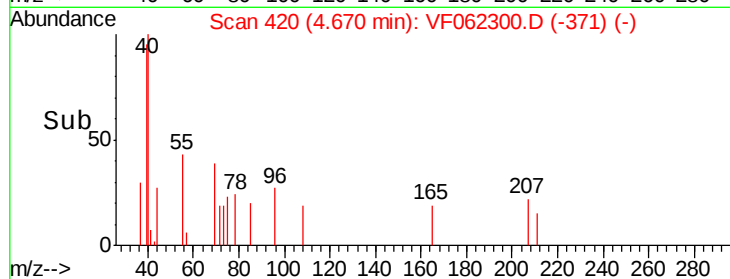
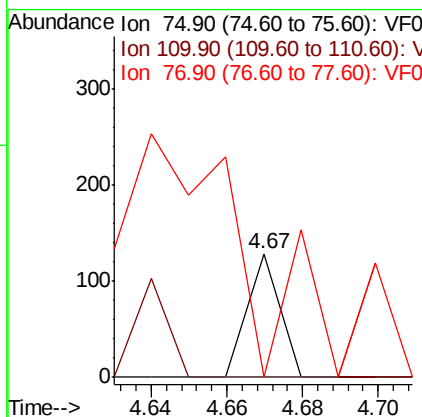
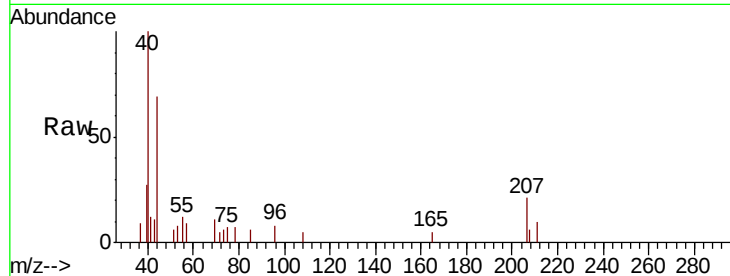
Delta R.T. 0.18 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

Tot Ion:	75	Resp:	76
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.9	53.8#
77	0.0	24.6	36.8#



#37

Ethyl Acetate

Concen: 350.094 ug/l

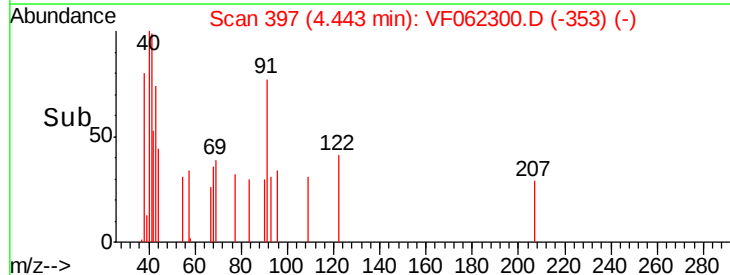
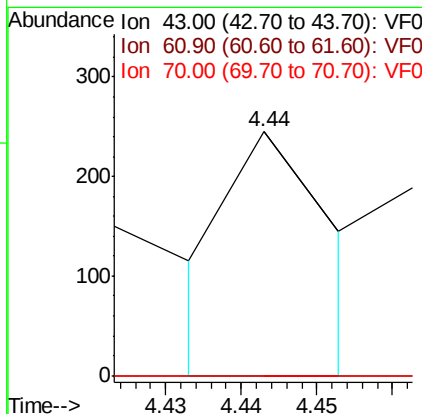
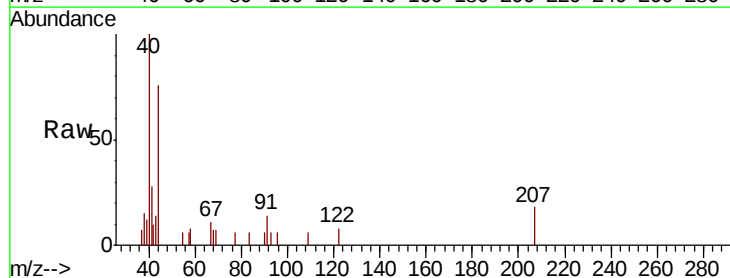
RT: 4.44 min Scan# 397

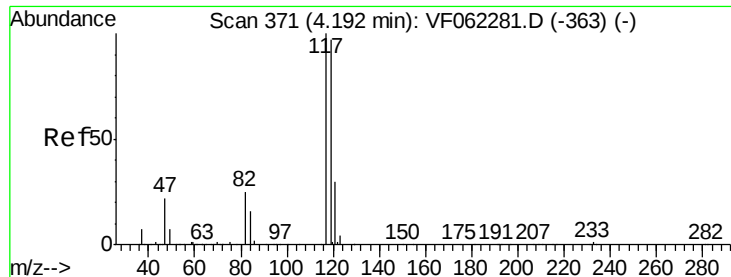
Delta R.T. 0.13 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Tgt Ion:	43	Resp:	231
Ion	Ratio	Lower	Upper
43	100		
61	0.0	85.8	128.6#
70	0.0	7.3	10.9#





#38

Carbon Tetrachloride

Concen: 51.429 ug/l

RT: 4.35 min Scan# 388

Delta R.T. 0.16 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

144-PENNINGTONRE

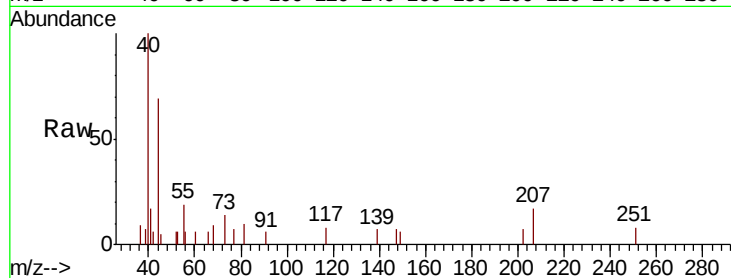
Tot Ion:117 Resp: 82

Ion Ratio Lower Upper

117 100

119 0.0 77.3 115.9#

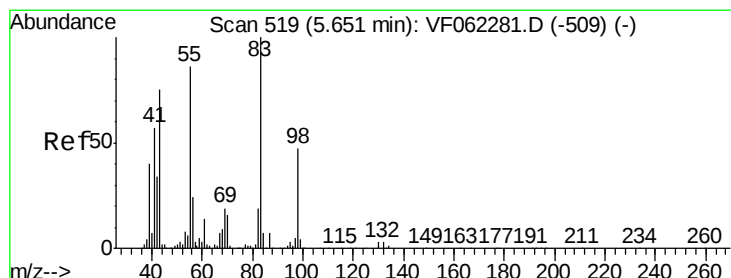
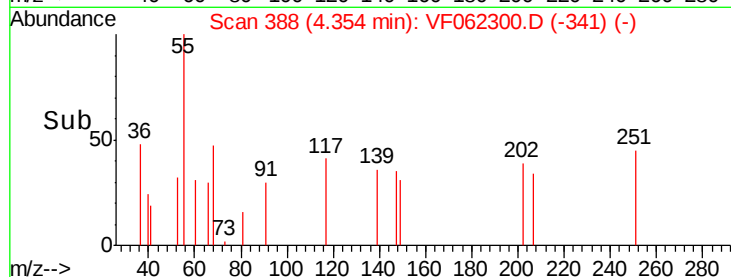
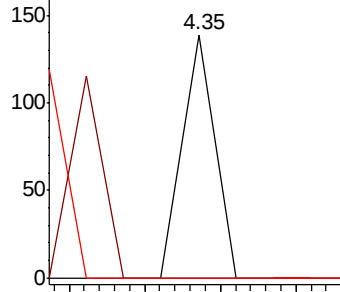
121 0.0 24.3 36.5#



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

Methylcyclohexane

Concen: 46.972 ug/l

RT: 5.84 min Scan# 539

Delta R.T. 0.19 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

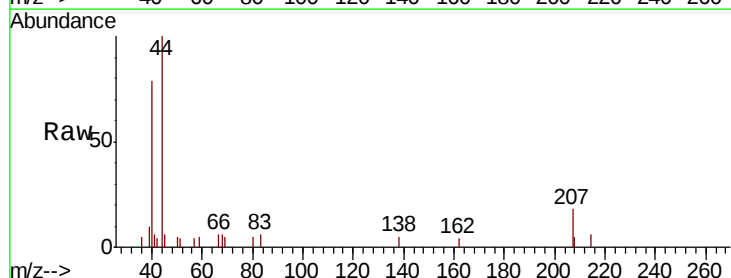
Tgt Ion: 83 Resp: 86

Ion Ratio Lower Upper

83 100

55 0.0 68.7 103.1#

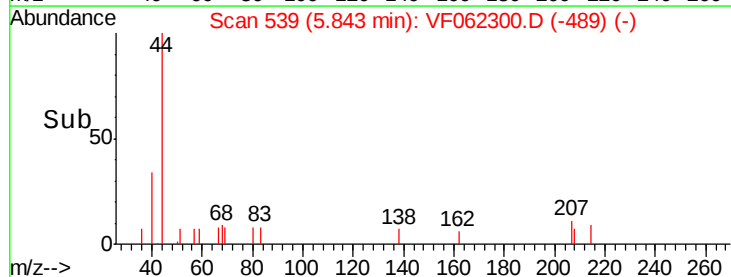
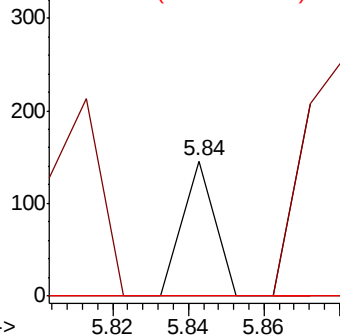
98 0.0 37.4 56.2#

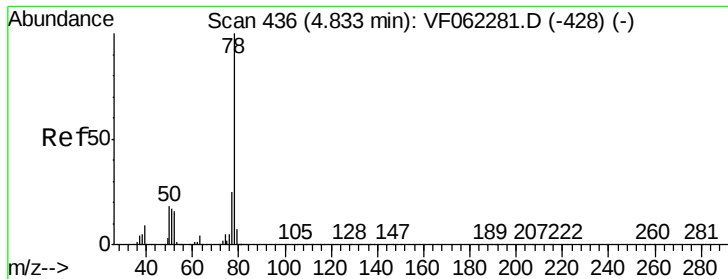


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 27.446 ug/l

RT: 4.99 min Scan# 452

Delta R.T. 0.15 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

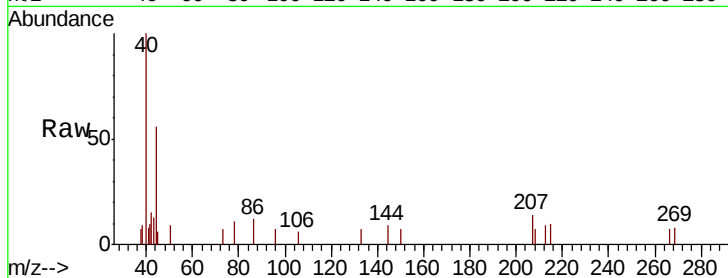
144-PENNINGTONRE

Tot Ion: 78 Resp: 104

Ion Ratio Lower Upper

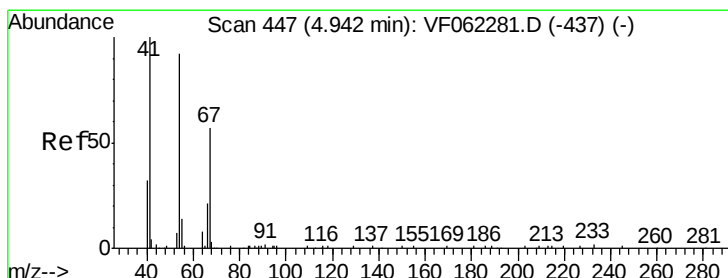
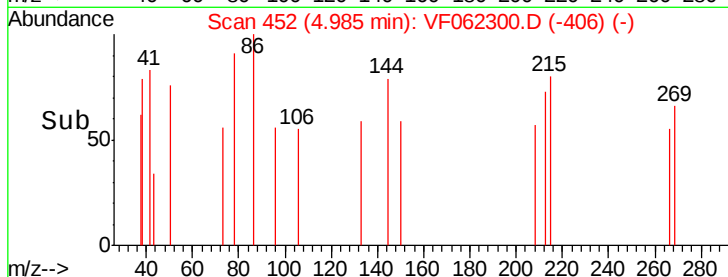
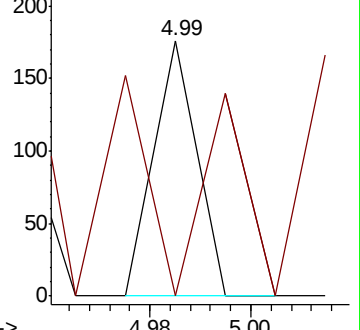
78 100

77 0.0 19.7 29.5#



Abundance Ion 78.00 (77.70 to 78.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#41

Methacrylonitrile

Concen: 1598.645 ug/l

RT: 5.11 min Scan# 465

Delta R.T. 0.17 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Tgt Ion: 41 Resp: 586

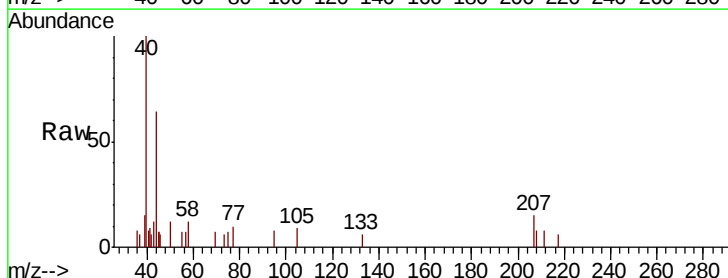
Ion Ratio Lower Upper

41 100

39 71.7 47.3 70.9#

67 0.0 41.3 61.9#

52 22.4 49.4 74.2#

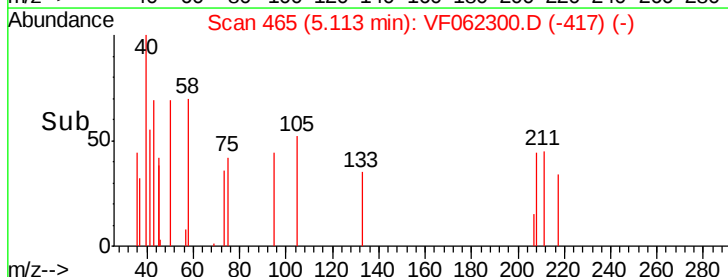
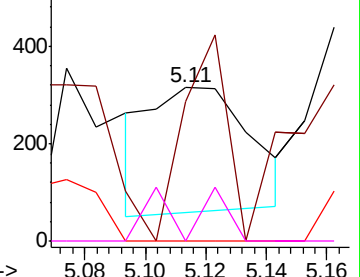


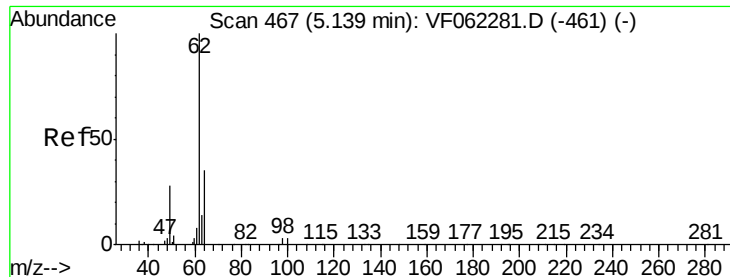
Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 55.812 ug/l

RT: 5.34 min Scan# 488

Delta R.T. 0.20 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

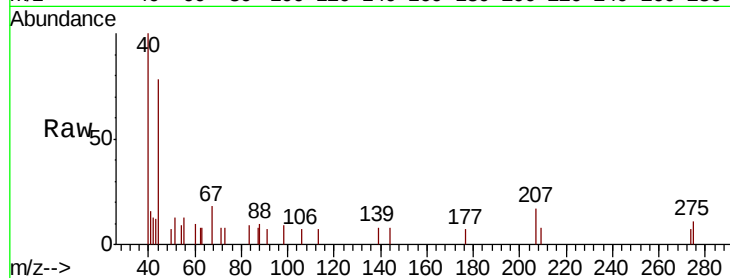
144-PENNINGTONRE

Tot Ion: 62 Resp: 67

Ion Ratio Lower Upper

62 100

98 123.9 0.0 16.8#



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

5.34

150

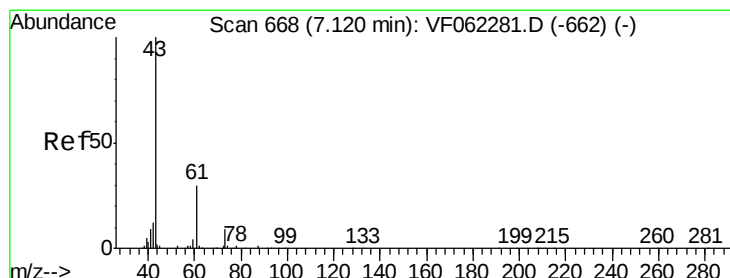
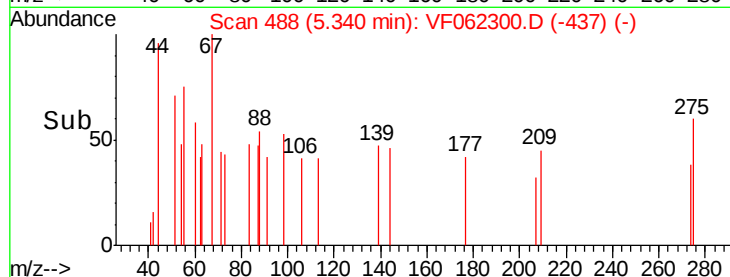
100

50

0

5.32 5.34 5.36

Time-->



#43

Isopropyl Acetate

Concen: 2264.824 ug/l

RT: 7.31 min Scan# 688

Delta R.T. 0.19 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

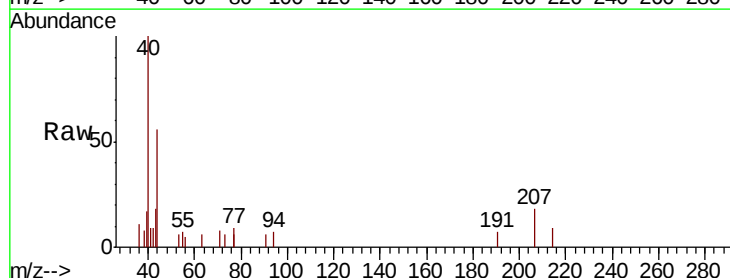
Tgt Ion: 43 Resp: 1525

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

400

300

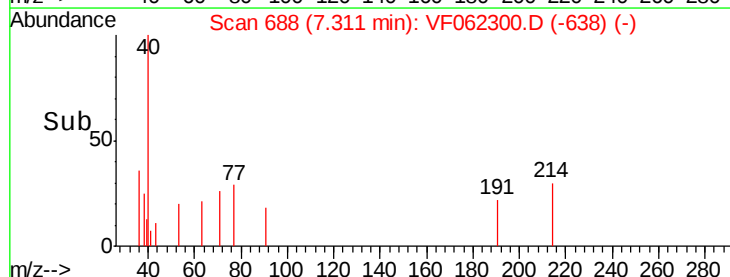
200

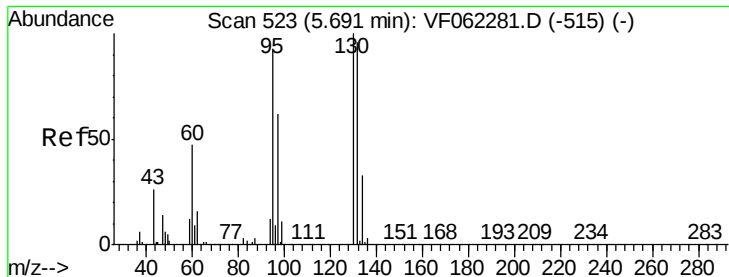
100

0

7.25 7.30 7.35 7.40

Time-->





#44

Trichloroethene

Concen: 66.300 ug/l

RT: 5.62 min Scan# 516

Delta R.T. -0.07 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

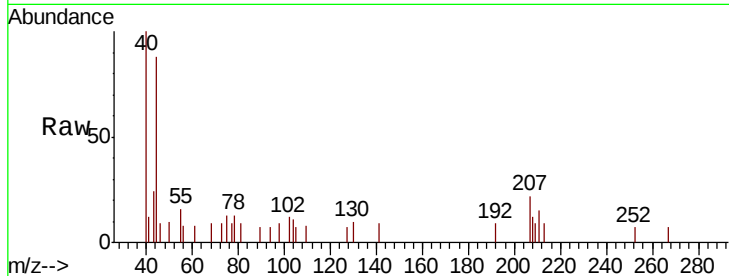
144-PENNINGTONRE

Tot Ion:130 Resp: 85

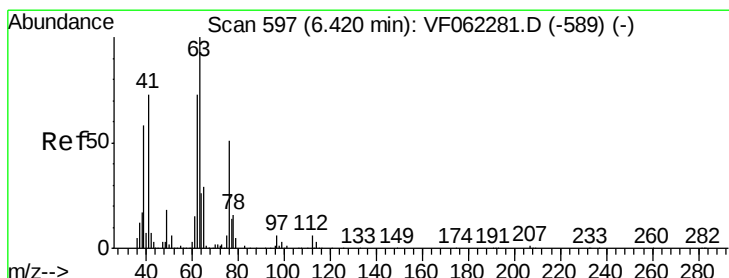
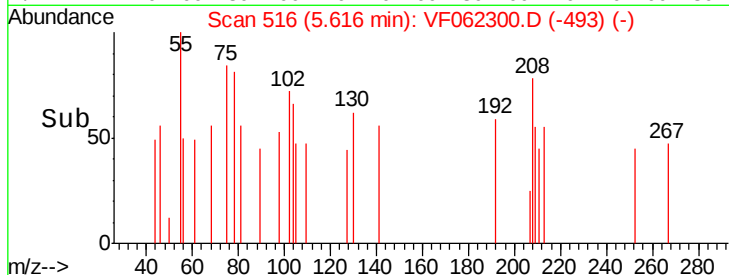
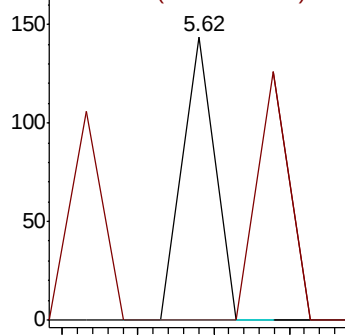
Ion Ratio Lower Upper

130 100

95 0.0 0.0 186.4



Abundance Ion 129.80 (129.50 to 130.50): VF0



#45

1,2-Dichloropropane

Concen: 85.444 ug/l

RT: 6.54 min Scan# 610

Delta R.T. 0.12 min

Lab File: VF062300.D

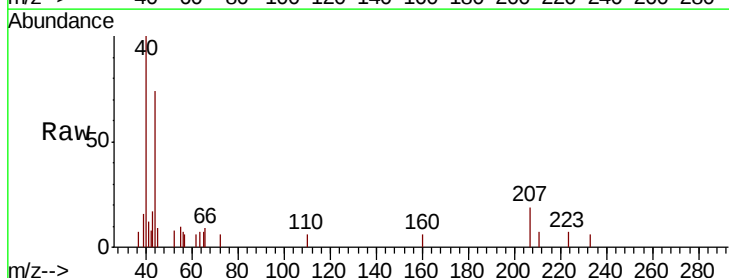
Acq: 25 Apr 2019 18:59

Tgt Ion: 63 Resp: 73

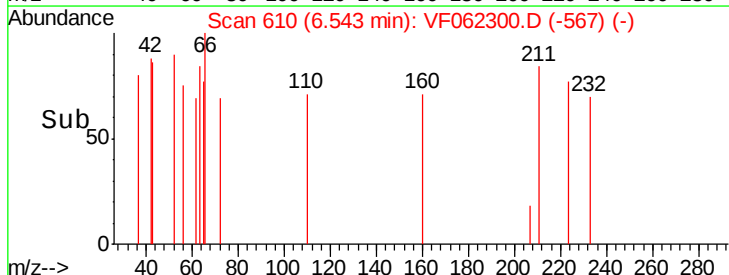
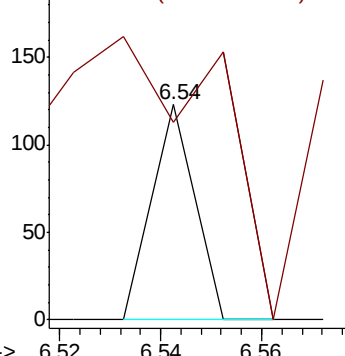
Ion Ratio Lower Upper

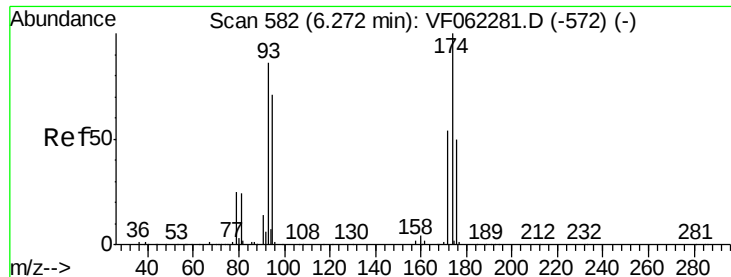
63 100

65 91.9 23.5 35.3#



Abundance Ion 62.90 (62.60 to 63.60): VF0





#46

Dibromomethane

Concen: 192.896 ug/l

RT: 6.46 min Scan# 602

Delta R.T. 0.19 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

144-PENNINGTONRE

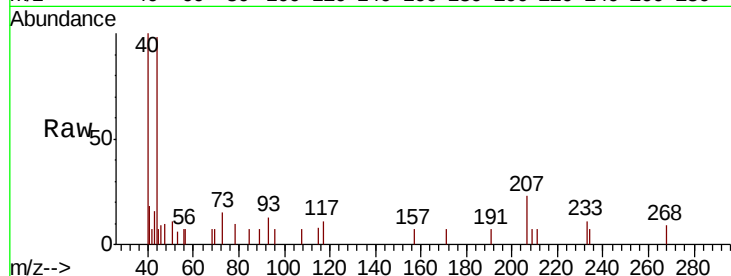
Tot Ion: 93 Resp: 119

Ion Ratio Lower Upper

93 100

95 0.0 66.2 99.4#

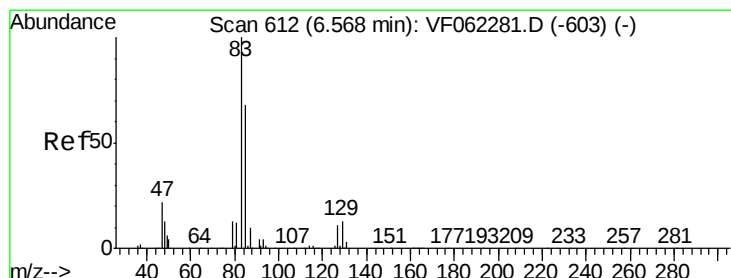
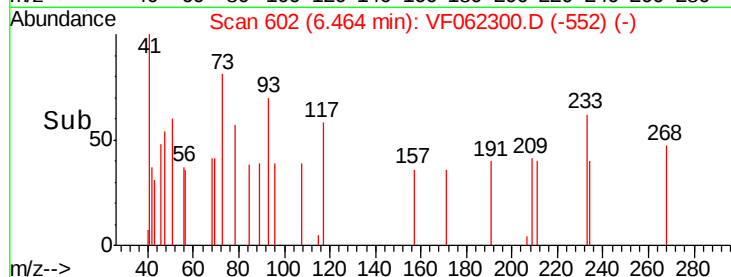
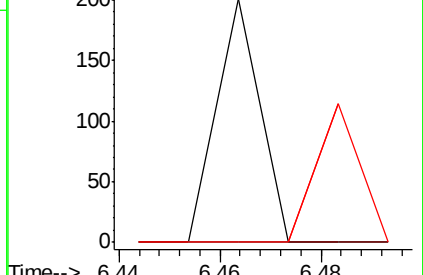
174 56.3 94.9 142.3#



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



#47

Bromodichloromethane

Concen: 88.258 ug/l

RT: 6.71 min Scan# 627

Delta R.T. 0.14 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

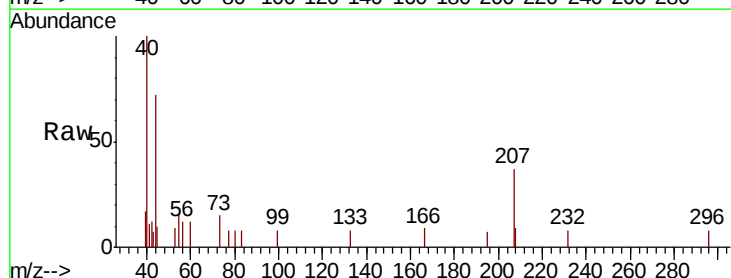
Tgt Ion: 83 Resp: 128

Ion Ratio Lower Upper

83 100

85 0.0 54.6 81.8#

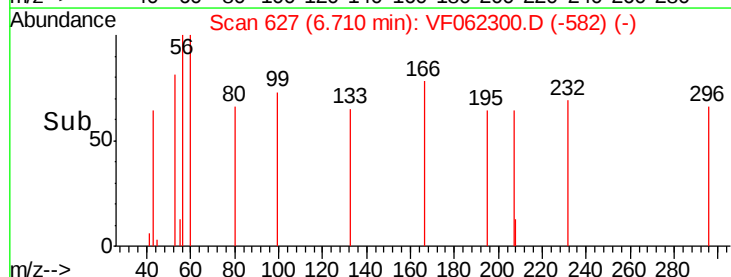
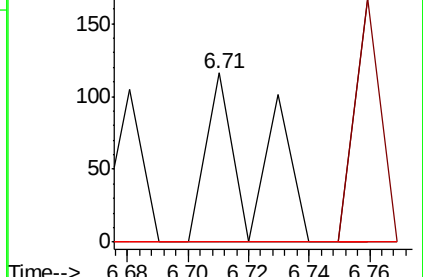
127 0.0 8.7 13.1#

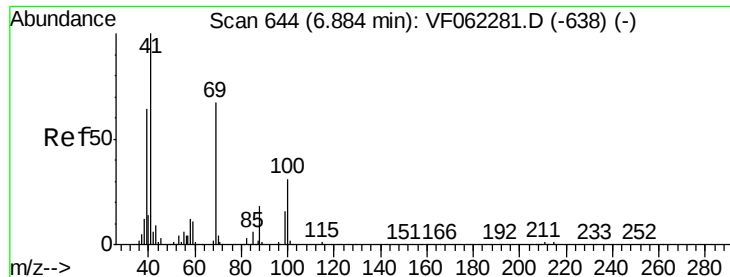


Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V





#48

Methyl methacrylate

Concen: 837.796 ug/l

RT: 7.13 min Scan# 670

Delta R.T. 0.25 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

144-PENNINGTONRE

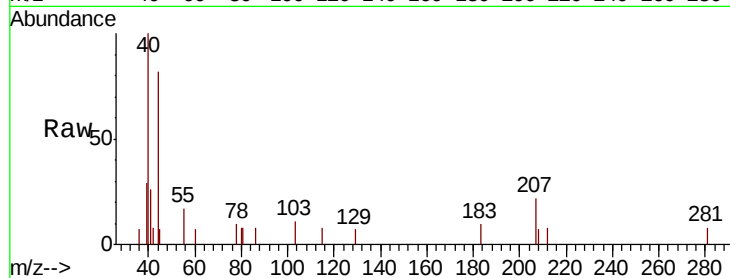
Tot Ion: 41 Resp: 405

Ion Ratio Lower Upper

41 100

69 24.9 53.4 80.2#

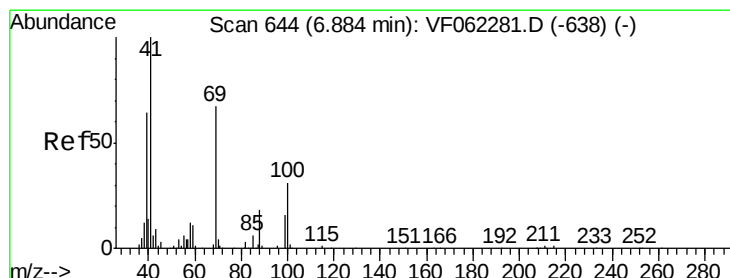
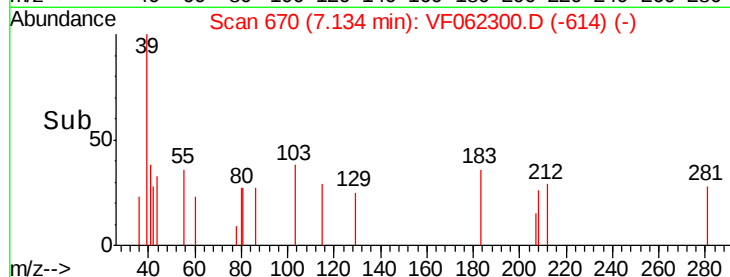
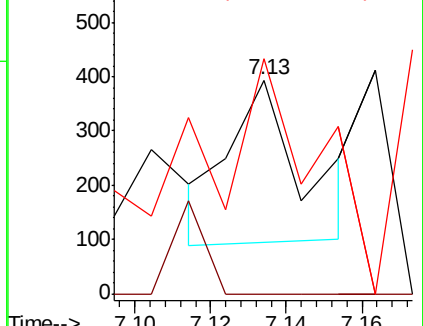
39 207.2 50.9 76.3#



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



#49

1,4-Dioxane

Concen: 12754.950 ug/l

RT: 7.34 min Scan# 691

Delta R.T. 0.46 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

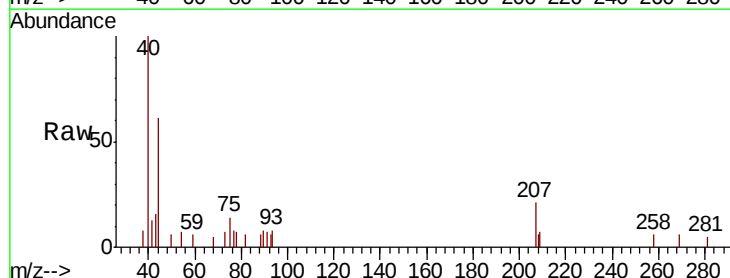
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 0.0 34.2 51.4#

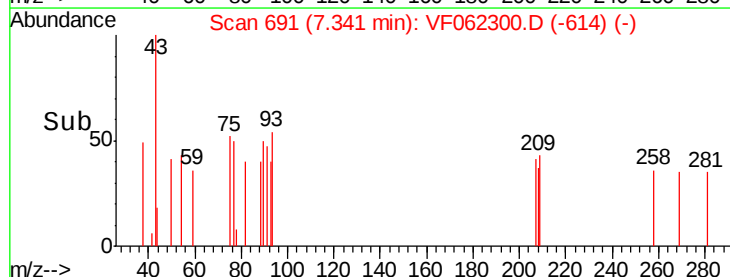
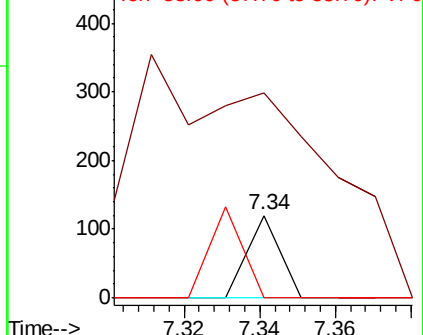
58 111.3 50.7 76.1#

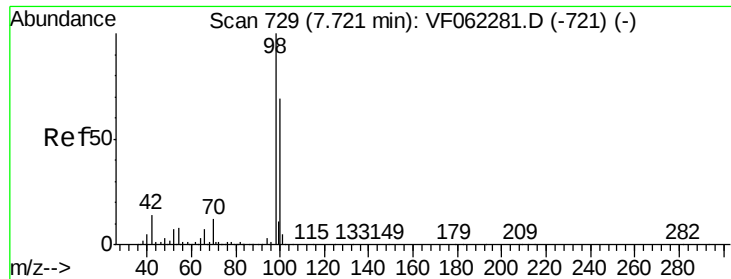


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

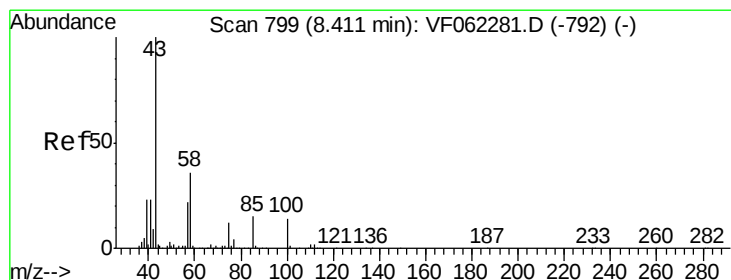
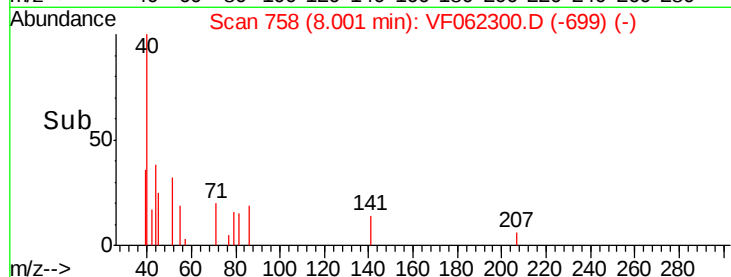
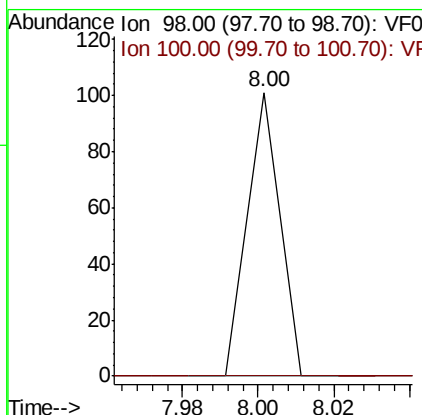
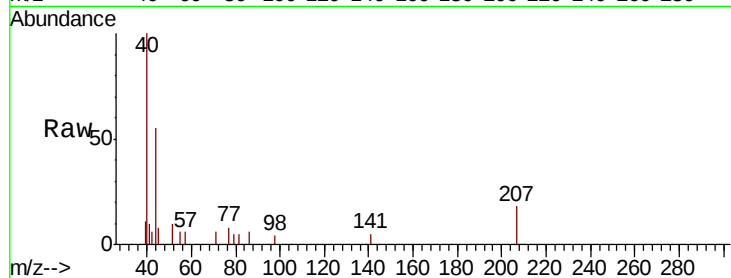




#50
Toluene-d8
Concen: 19.488 ug/l
RT: 8.00 min Scan# 758
Delta R.T. 0.28 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

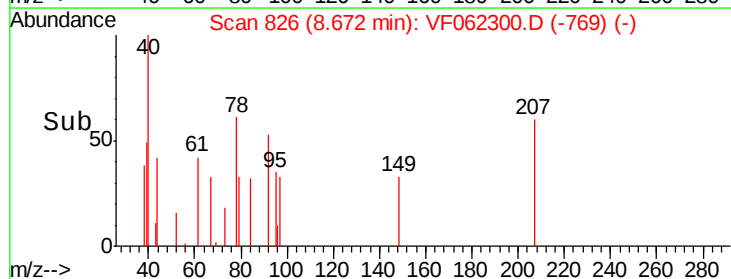
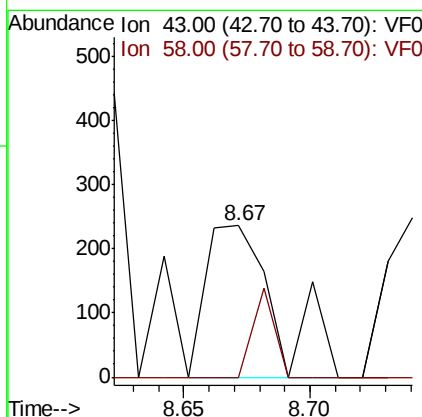
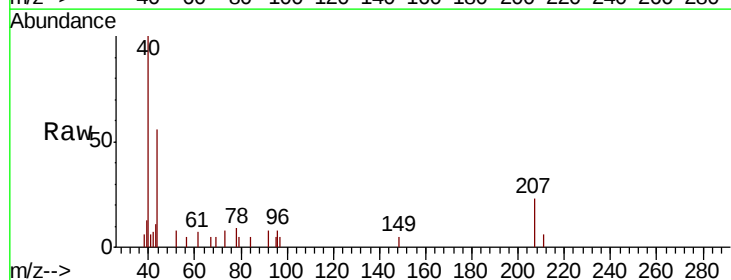
Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

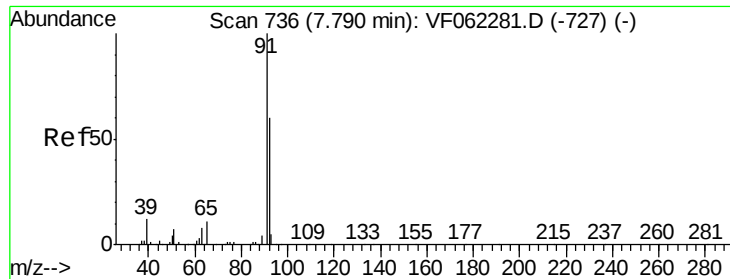
Tot Ion: 98 Resp: 60
Ion Ratio Lower Upper
98 100
100 0.0 54.4 81.6#



#51
4-Methyl-2-Pentanone
Concen: 890.581 ug/l
RT: 8.67 min Scan# 826
Delta R.T. 0.26 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Tgt Ion: 43 Resp: 463
Ion Ratio Lower Upper
43 100
58 17.7 29.1 43.7#





#52

Toluene

Concen: 36.130 ug/l

RT: 8.09 min Scan# 767

Delta R.T. 0.30 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

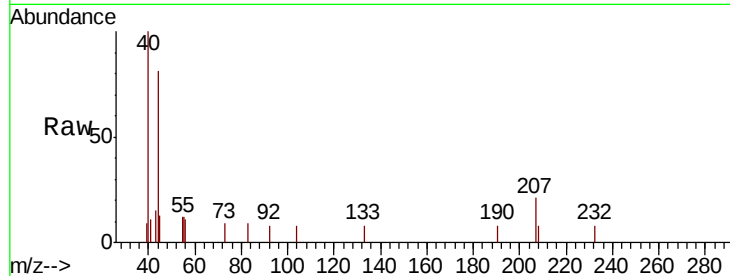
144-PENNINGTONRE

Tot Ion: 92 Resp: 79

Ion Ratio Lower Upper

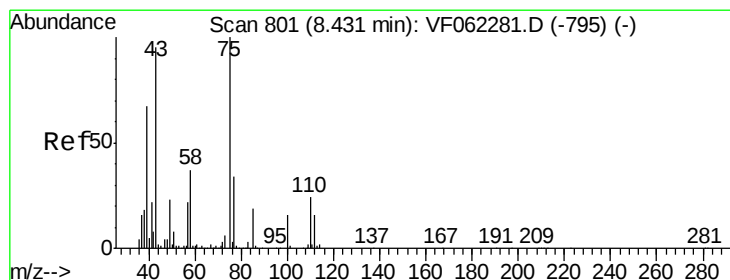
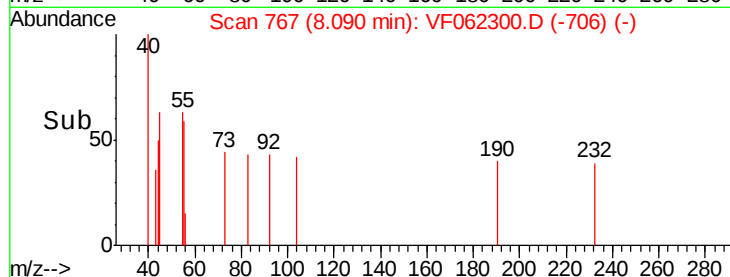
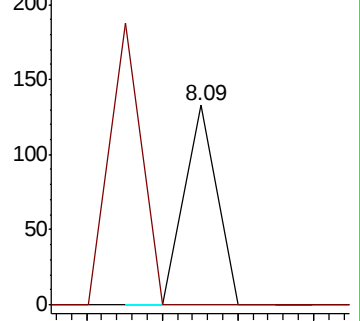
92 100

91 140.5 132.5 198.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#53

t-1,3-Dichloropropene

Concen: 123.776 ug/l

RT: 8.83 min Scan# 842

Delta R.T. 0.40 min

Lab File: VF062300.D

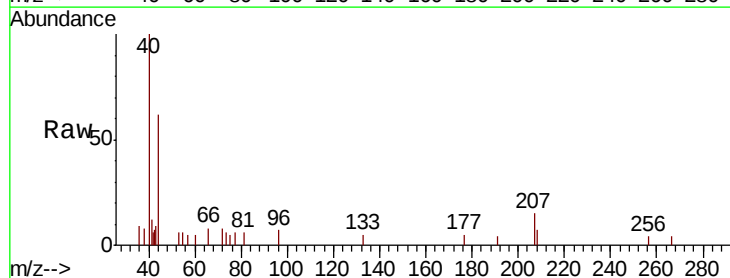
Acq: 25 Apr 2019 18:59

Tgt Ion: 75 Resp: 132

Ion Ratio Lower Upper

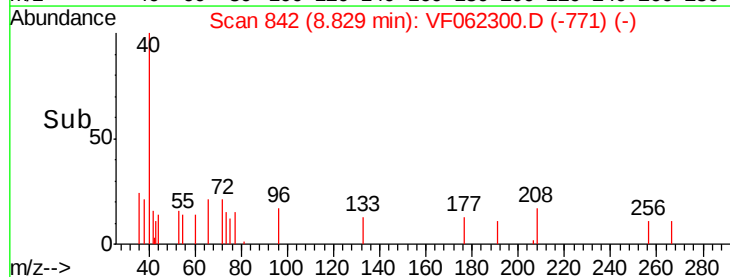
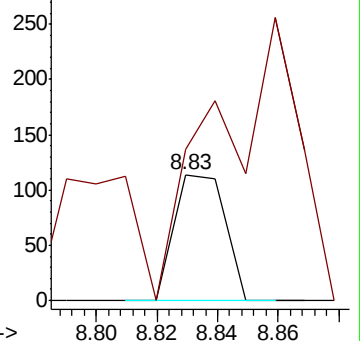
75 100

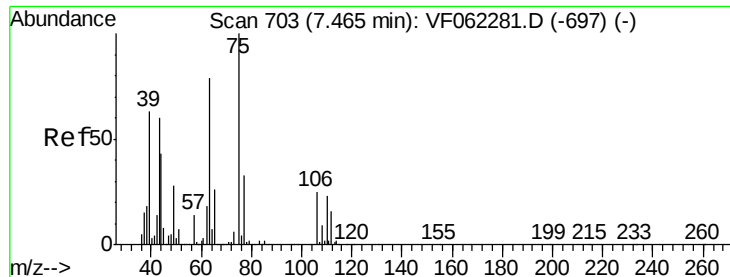
77 21.9 26.9 40.3#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0



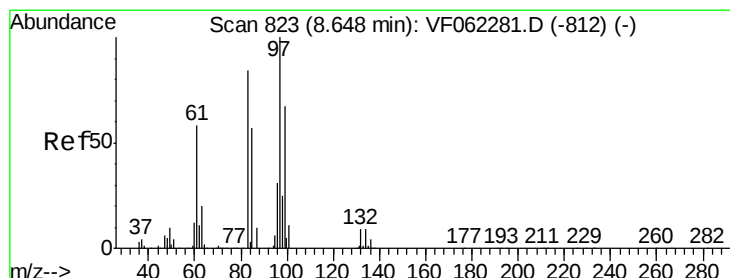
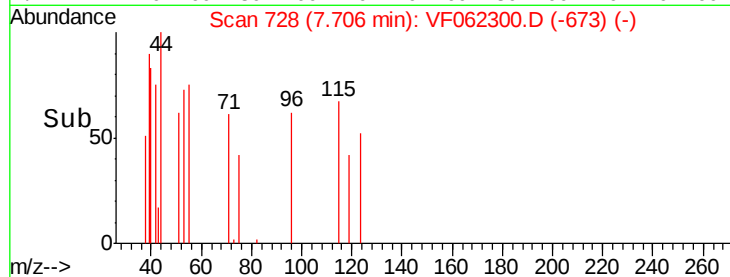
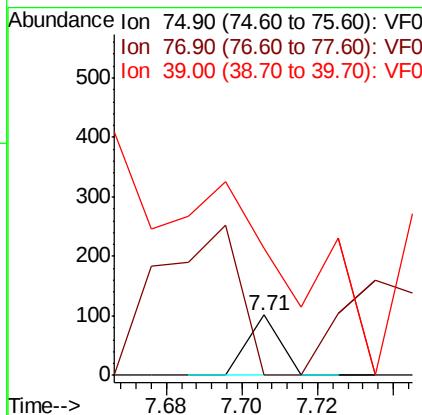
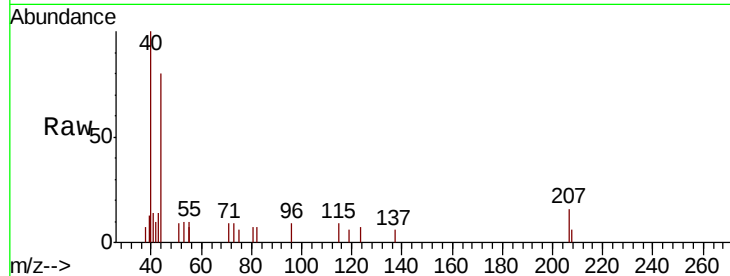


#54

cis-1,3-Dichloropropene
 Concen: 43.917 ug/l
 RT: 7.71 min Scan# 728
 Delta R.T. 0.24 min
 Lab File: VF062300.D
 Acq: 25 Apr 2019 18:59

Instrument :
 MSVOA_F
 ClientSampleId :
 144-PENNINGTONRE

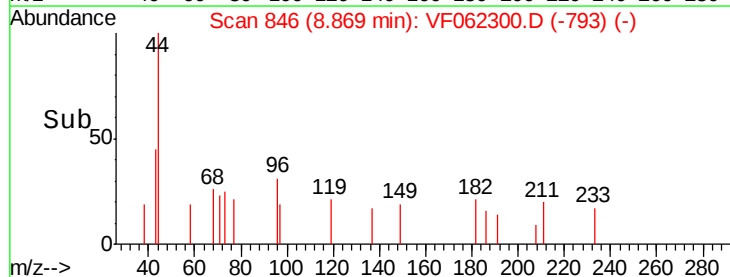
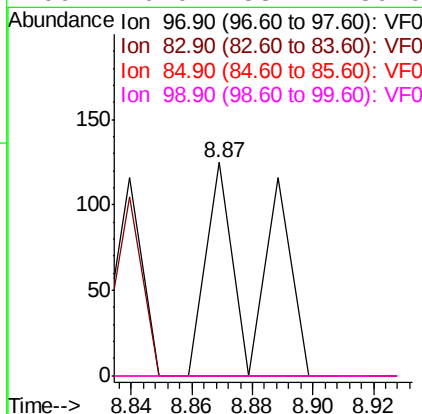
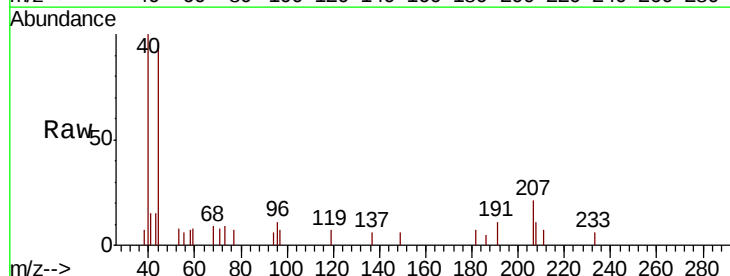
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	26.5	39.7#
39	0.0	50.2	75.2#

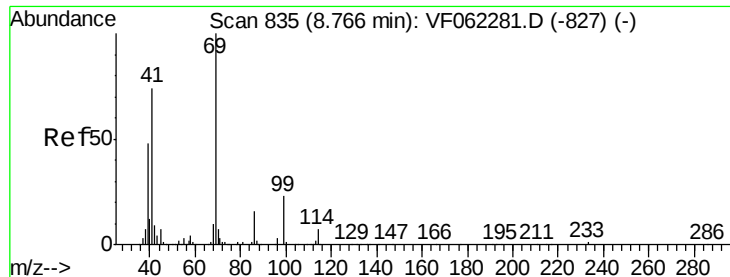


#55

1,1,2-Trichloroethane
 Concen: 230.270 ug/l
 RT: 8.87 min Scan# 846
 Delta R.T. 0.22 min
 Lab File: VF062300.D
 Acq: 25 Apr 2019 18:59

Tgt 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#





#56

Ethyl methacrylate

Concen: 139.248 ug/l

RT: 9.06 min Scan# 865

Delta R.T. 0.29 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

144-PENNINGTONRE

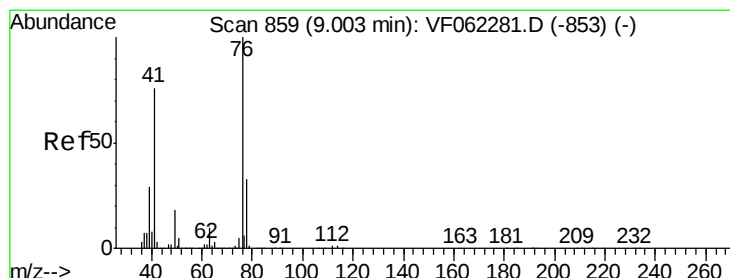
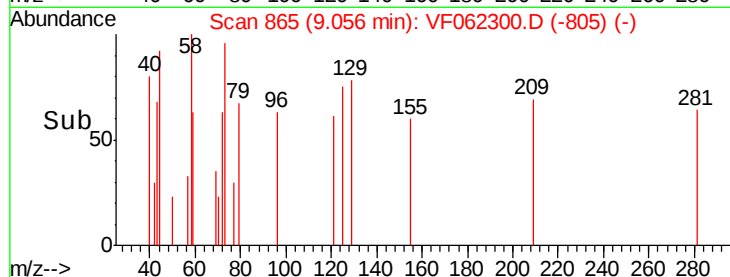
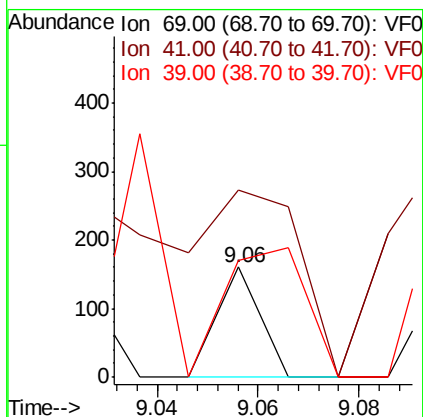
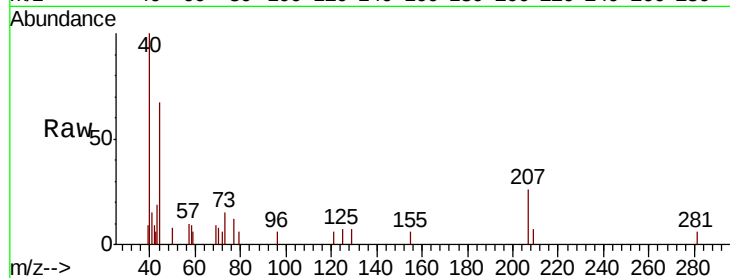
Tot Ion: 69.00 Resp: 95

Ion Ratio Lower Upper

69 100

41 0.0 61.5 92.3#

39 444.2 37.9 56.9#



#57

1,3-Dichloropropane

Concen: 101.393 ug/l

RT: 9.24 min Scan# 884

Delta R.T. 0.24 min

Lab File: VF062300.D

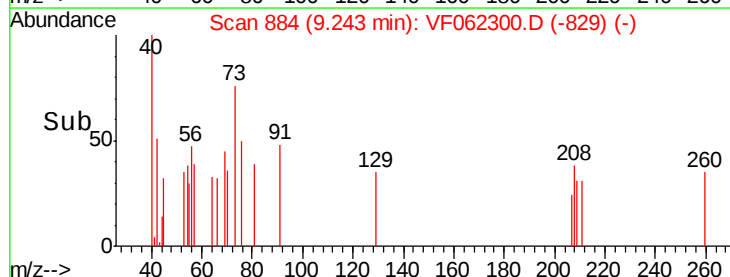
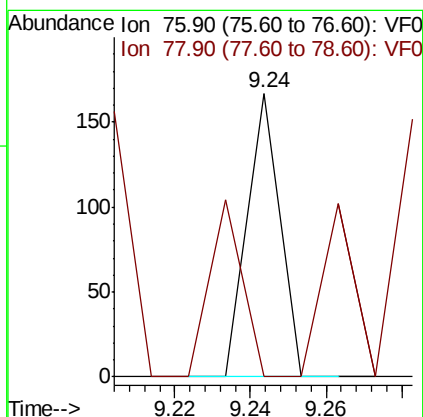
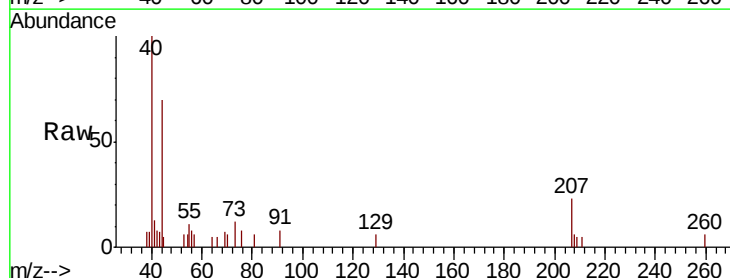
Acq: 25 Apr 2019 18:59

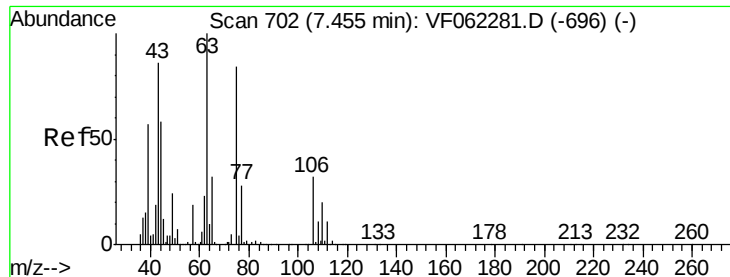
Tgt Ion: 76 Resp: 99

Ion Ratio Lower Upper

76 100

78 62.6 27.0 40.6#





#58

2-Chloroethyl Vinyl ether

Concen: 342.006 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.26 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

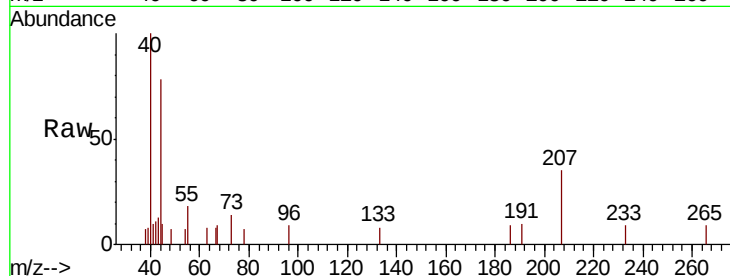
144-PENNINGTONRE

Tot Ion: 63 Resp: 71

Ion Ratio Lower Upper

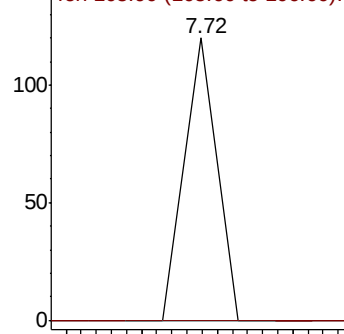
63 100

106 0.0 24.7 37.1#

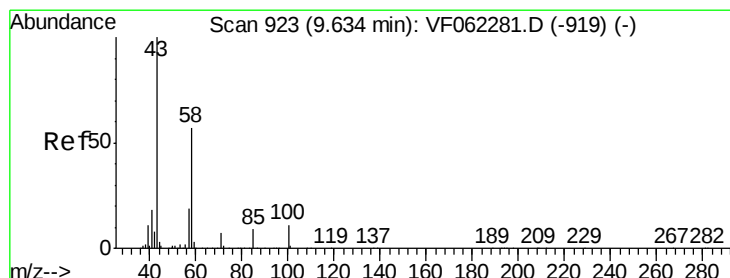
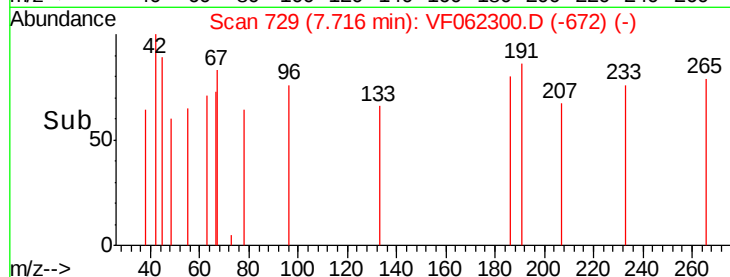


Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V



Time-->



#59

2-Hexanone

Concen: 4130.896 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.28 min

Lab File: VF062300.D

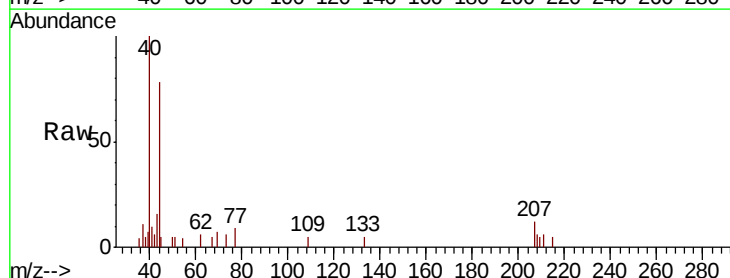
Acq: 25 Apr 2019 18:59

Tgt Ion: 43 Resp: 1241

Ion Ratio Lower Upper

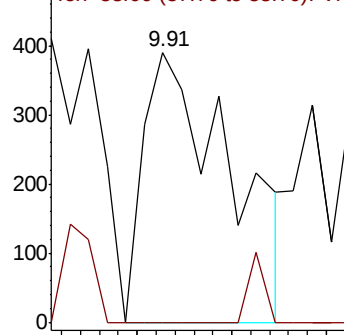
43 100

58 0.0 24.9 74.7#

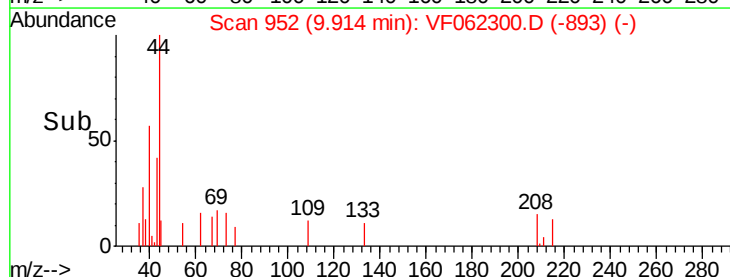


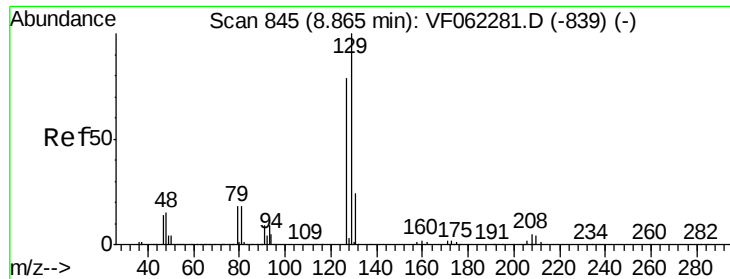
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->





#60

Dibromochloromethane

Concen: 68.459 ug/l

RT: 9.24 min Scan# 884

Delta R.T. 0.38 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

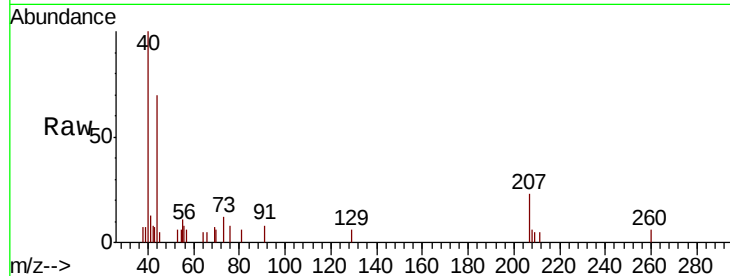
144-PENNINGTONRE

Tot Ion:129 Resp: 69

Ion Ratio Lower Upper

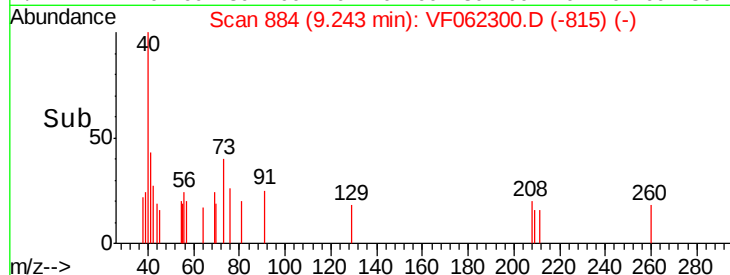
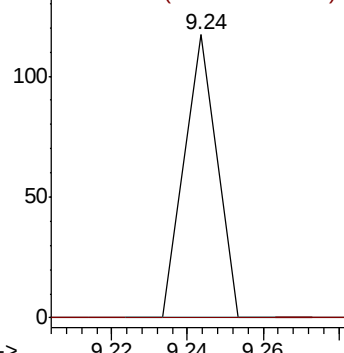
129 100

127 0.0 38.8 116.4#

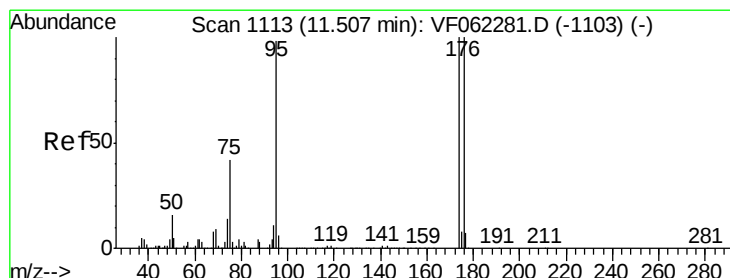


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 213.547 ug/l

RT: 11.90 min Scan# 1154

Delta R.T. 0.40 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

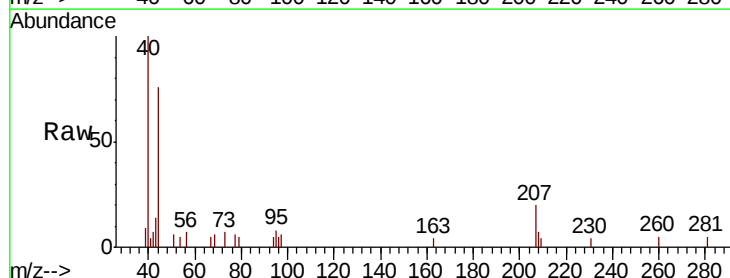
Tgt Ion: 95 Resp: 271

Ion Ratio Lower Upper

95 100

174 0.0 0.0 185.2

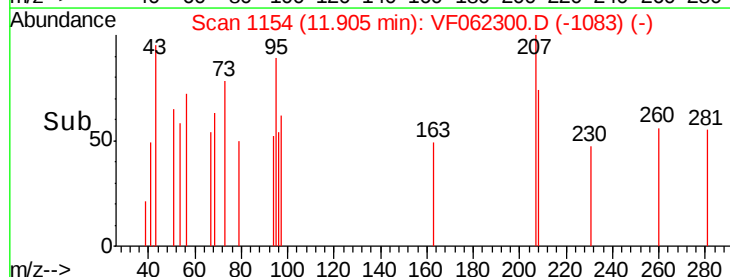
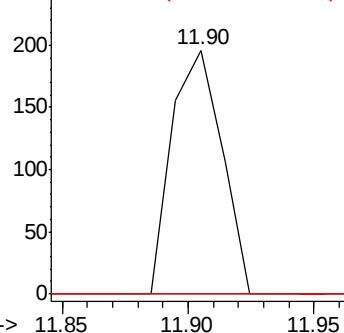
176 0.0 0.0 184.8



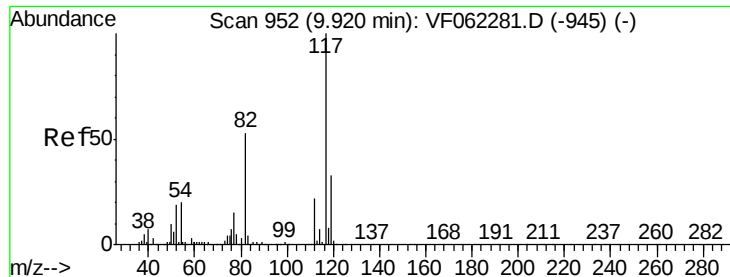
Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



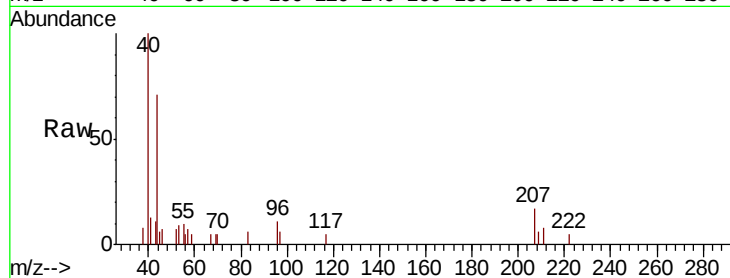
Time-->



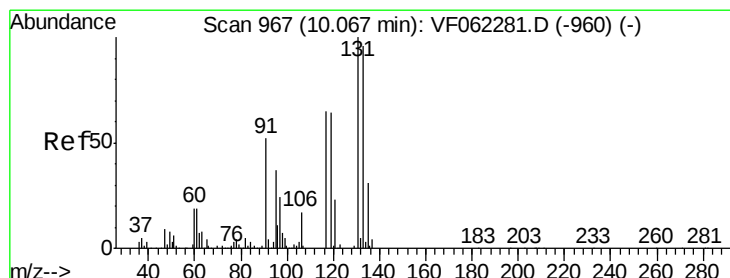
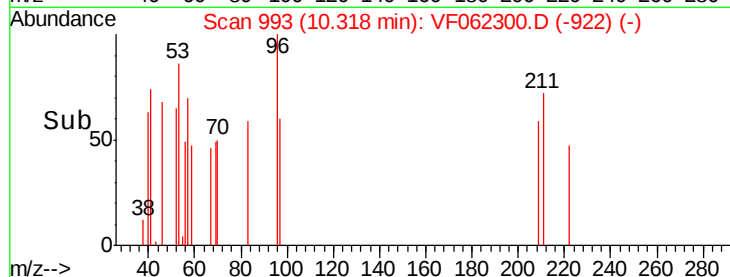
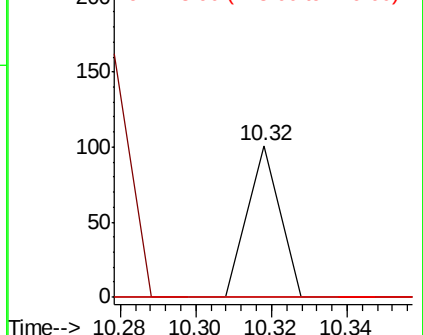
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.32 min Scan# 993
Delta R.T. 0.40 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	42.6	64.0#
119	0.0	26.1	39.1#

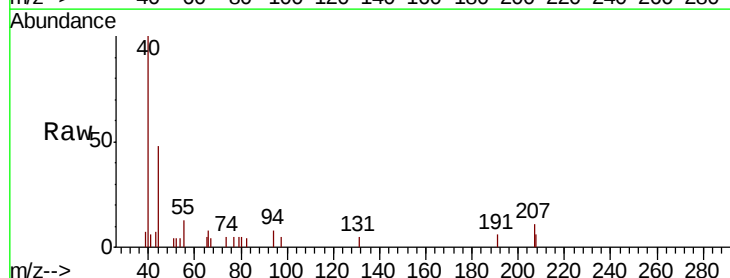


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

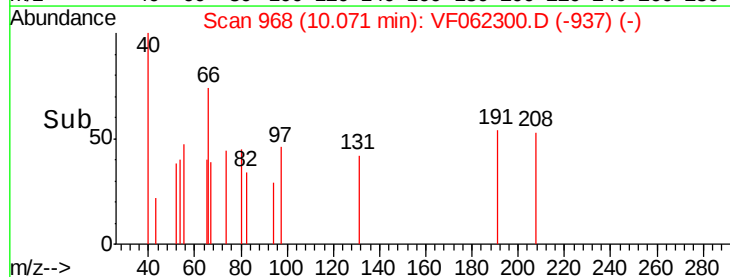
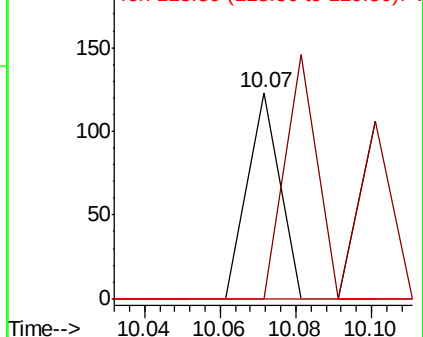


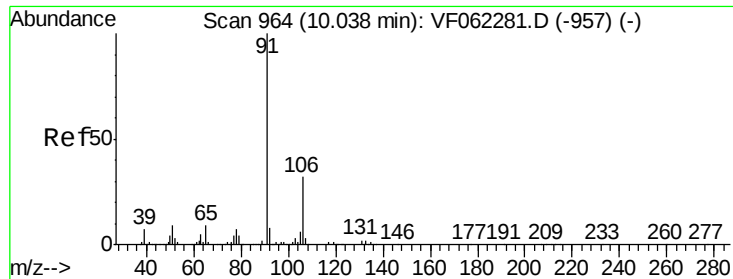
#66
1,1,1,2-Tetrachloroethane
Concen: 141.351 ug/l
RT: 10.07 min Scan# 968
Delta R.T. 0.00 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	117.8	48.5	145.5
119	0.0	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: 102.825 ug/l

RT: 10.02 min Scan# 963

Delta R.T. -0.02 min

Lab File: VF062300.D

Acq: 25 Apr 2019 18:59

Instrument :

MSVOA_F

ClientSampleId :

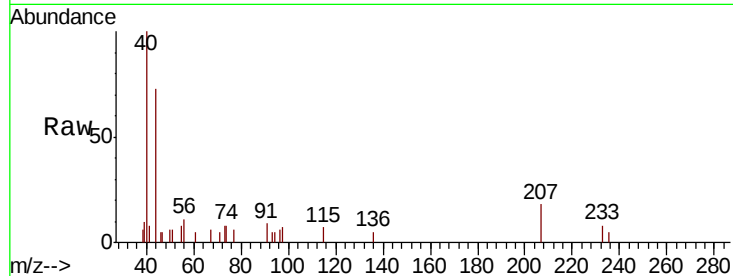
144-PENNINGTONRE

Tot Ion: 91 Resp: 196

Ion Ratio Lower Upper

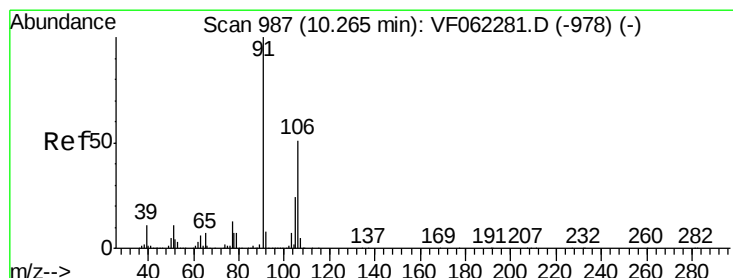
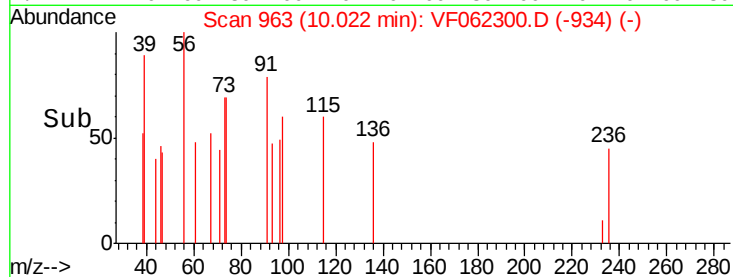
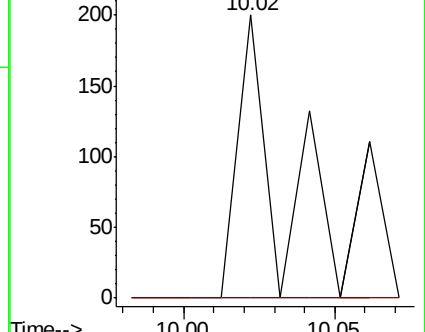
91 100

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: 90.182 ug/l

RT: 10.23 min Scan# 984

Delta R.T. -0.04 min

Lab File: VF062300.D

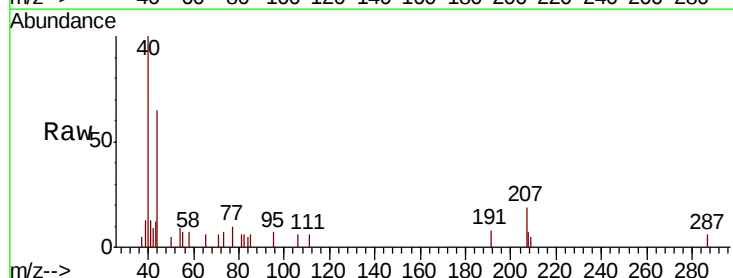
Acq: 25 Apr 2019 18:59

Tgt Ion: 106 Resp: 64

Ion Ratio Lower Upper

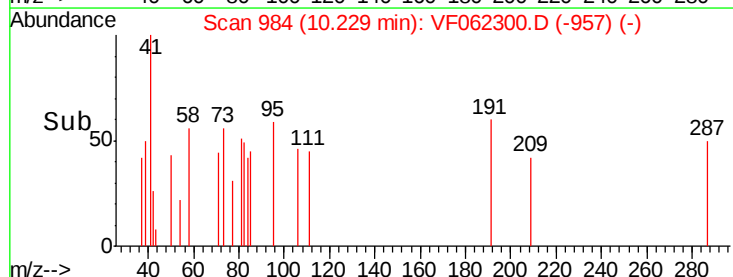
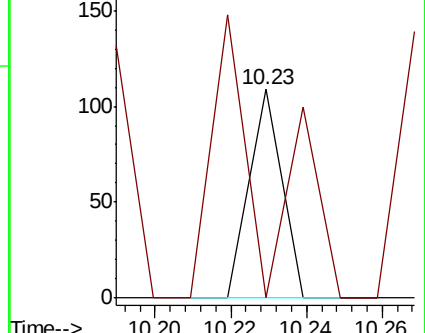
106 100

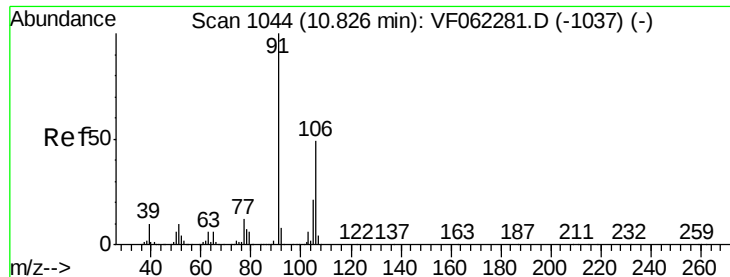
91 229.7 158.3 237.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

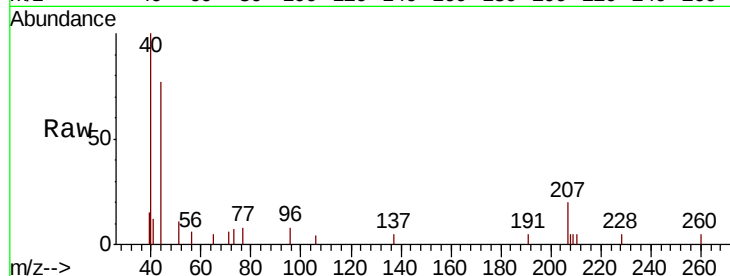




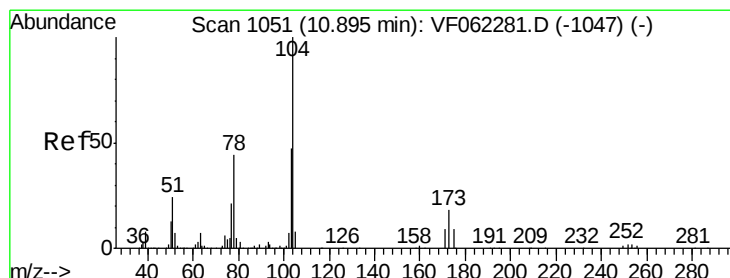
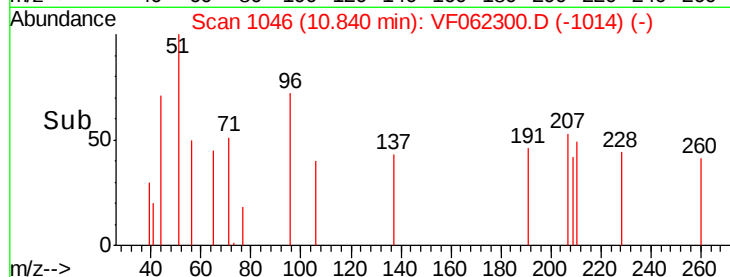
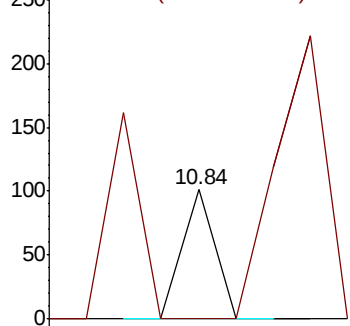
#69
o-Xylene
Concen: 75.675 ug/l
RT: 10.84 min Scan# 1046
Delta R.T. 0.01 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Instrument :
MSVOA_F
ClientSampleId :
144-PENNINGTONRE

Tot Ion:106 Resp: 60
Ion Ratio Lower Upper
106 100
91 160.0 110.0 330.0

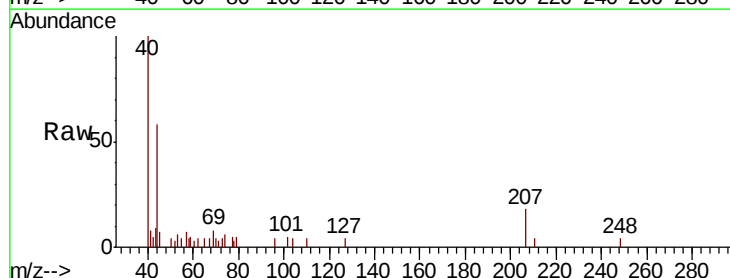


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

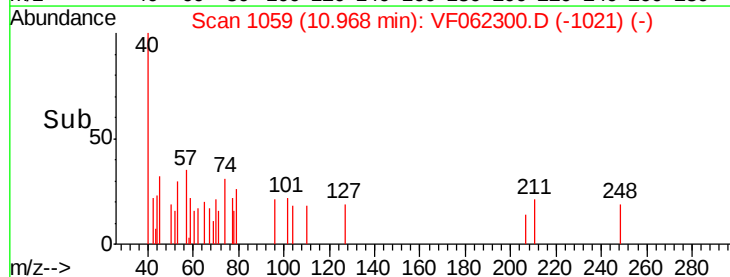
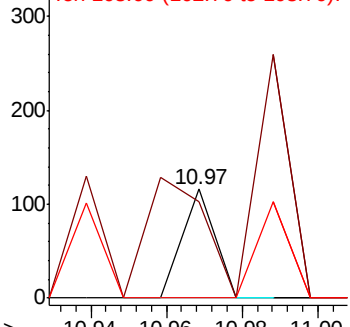


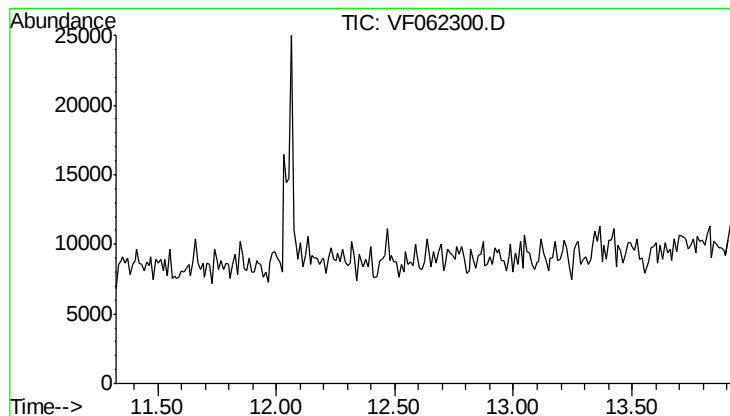
#70
Styrene
Concen: 60.201 ug/l
RT: 10.97 min Scan# 1059
Delta R.T. 0.07 min
Lab File: VF062300.D
Acq: 25 Apr 2019 18:59

Tgt Ion:104 Resp: 69
Ion Ratio Lower Upper
104 100
78 198.6 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





#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 12.62 min
 Lab File: VF062300.D
 Acq: 25 Apr 2019 18:59

Instrument :
 MSVOA_F
 ClientSampleId :
 144-PENNINGTONRE

Tot Ion	152
Sig	Exp Ratio
152	100
115	51.2
150	165.3

