

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF073118\
 Data File : VF059719.D
 Acq On : 31 Jul 2018 19:49
 Operator : VA/AP
 Sample : J4140-08
 Misc : 6.91g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EPE-F-8(130-132)

Quant Time: Jul 31 20:05:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 05:19:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	7756	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	6362	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	2266	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	189	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	1984	14.23	ug/l	-0.02
Spiked Amount			Recovery	=	28.46%	
35) Dibromofluoromethane	4.29	113	2662	40.29	ug/l	0.00
Spiked Amount			Recovery	=	80.58%	
50) Toluene-d8	7.70	98	4774	30.98	ug/l	0.00
Spiked Amount			Recovery	=	61.96%	
62) 4-Bromofluorobenzene	11.50	95	323	3.79	ug/l	0.00
Spiked Amount			Recovery	=	7.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	79	Below Cal	#	44
3) Chloromethane	1.09	50	166	Below Cal	#	38
4) Vinyl Chloride	1.21	62	73	Below Cal	#	47
5) Bromomethane	1.34	94	66	Below Cal	#	4
8) Diethyl Ether	1.59	74	104	4.199	ug/l #	1
11) Tert butyl alcohol	2.62	59	80	12.850	ug/l #	74
12) 1,1-Dichloroethene	1.83	96	84	1.399	ug/l #	1
13) Acrolein	2.06	56	80	41.493	ug/l #	4
15) Acrylonitrile	3.17	53	85	9.498	ug/l #	7
16) Acetone	2.30	43	286	11.407	ug/l #	68
18) Methyl Acetate	2.48	43	192	Below Cal	#	1
20) Methylene Chloride	2.27	84	63	Below Cal	#	37
23) Vinyl Acetate	3.34	43	111	1.065	ug/l #	83
25) 2-Butanone	4.54	43	94	3.359	ug/l #	74
26) 2,2-Dichloropropane	3.88	77	151	1.503	ug/l #	66
27) cis-1,2-Dichloroethene	3.48	96	77	1.021	ug/l	1
29) Tetrahydrofuran	4.25	42	78	7.253	ug/l #	39
31) Cyclohexane	3.93	56	140	Below Cal	#	15
36) 1,1-Dichloropropene	4.43	75	85	Below Cal	#	46
37) Ethyl Acetate	4.28	43	78	Below Cal	#	19
38) Carbon Tetrachloride	4.06	117	102	1.008	ug/l #	14
41) Methacrylonitrile	4.88	41	75	1.986	ug/l #	33
43) Isopropyl Acetate	7.10	43	85	2.234	ug/l #	46
45) 1,2-Dichloropropane	6.43	63	69	2.034	ug/l #	43
46) Dibromomethane	6.25	93	60	1.863	ug/l #	8
48) Methyl methacrylate	6.85	41	76	2.656	ug/l #	69
49) 1,4-Dioxane	6.81	88	75	379.292	ug/l #	21
51) 4-Methyl-2-Pentanone	8.38	43	133	4.596	ug/l #	42
52) Toluene	7.66	92	66	Below Cal	#	1
56) Ethyl methacrylate	8.84	69	97	2.673	ug/l #	14
57) 1,3-Dichloropropane	8.87	76	92	1.541	ug/l #	41
58) 2-Chloroethyl Vinyl ether	7.66	63	77	18.378	ug/l	100
59) 2-Hexanone	9.74	43	148	6.382	ug/l	72
61) 1,2-Dibromoethane	9.09	107	61	1.501	ug/l #	4

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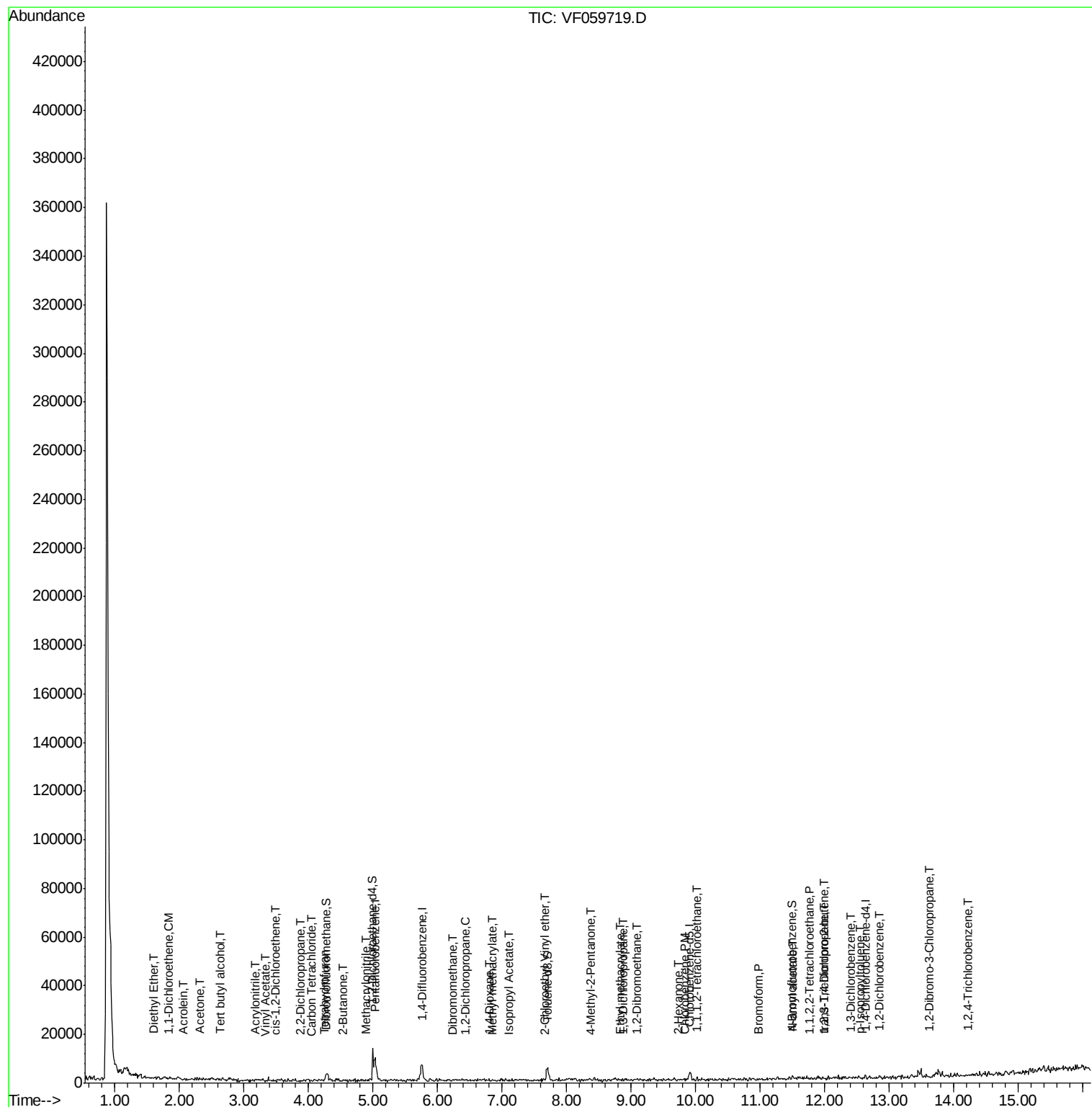
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Chlorobenzene	9.82	112	86	1.897	uq/l #	43
66) 1,1,1,2-Tetrachloroethane	10.02	131	70	3.308	uq/l #	9
68) m/p-Xylenes	10.40	106	74	Below Cal	#	1
71) Bromoform	10.97	173	275	19.942	uq/l #	30
74) N-amyl acetate	11.51	43	80	25.570	uq/l #	27
75) 1,1,2,2-Tetrachloroethane	11.77	83	61	26.131	uq/l #	25
76) 1,2,3-Trichloropropane	11.98	75	66	33.249	uq/l #	39
81) trans-1,4-Dichloro-2-buten	11.98	75	66	80.285	uq/l #	9
86) p-Isopropyltoluene	12.55	119	75	1.350	uq/l #	49
87) 1,3-Dichlorobenzene	12.40	146	72	8.896	uq/l #	24
91) 1,2-Dichlorobenzene	12.85	146	80	12.166	uq/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.62	75	61	106.893	uq/l #	9
93) 1,2,4-Trichlorobenzene	14.21	180	74	14.585	uq/l #	12

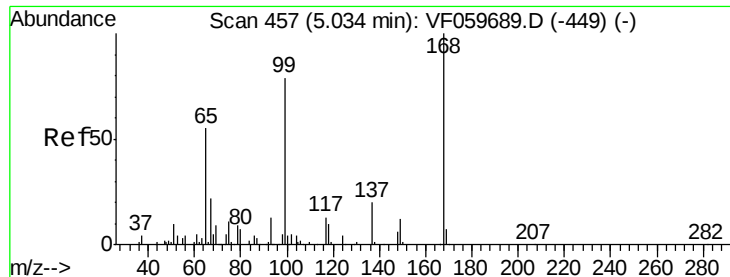
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

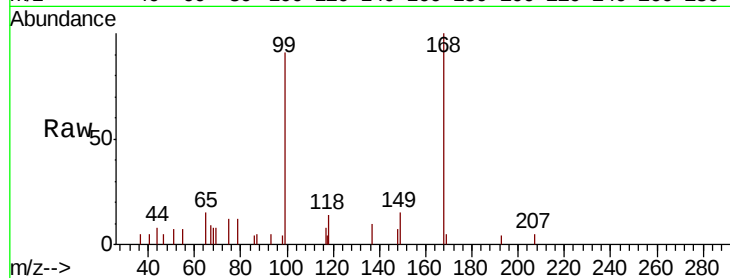
EPE-F-8(130-132)

Tot Ion:168 Resp: 7756

Ion Ratio Lower Upper

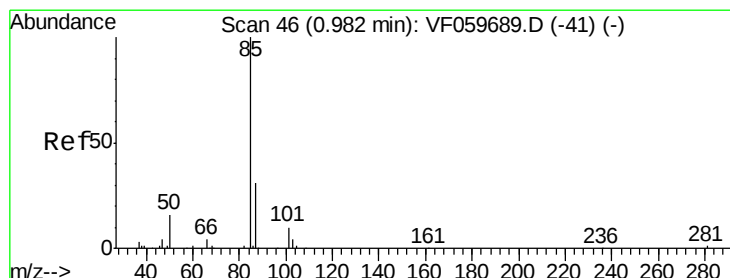
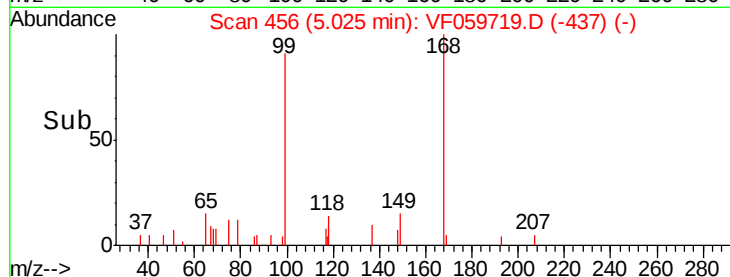
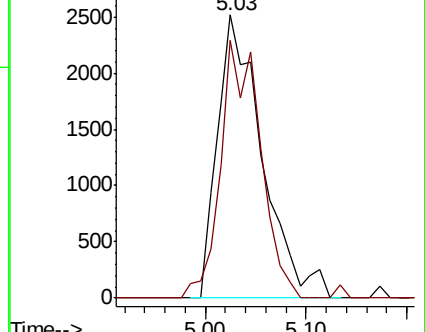
168 100

99 91.0 63.3 94.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 47

Delta R.T. 0.01 min

Lab File: VF059719.D

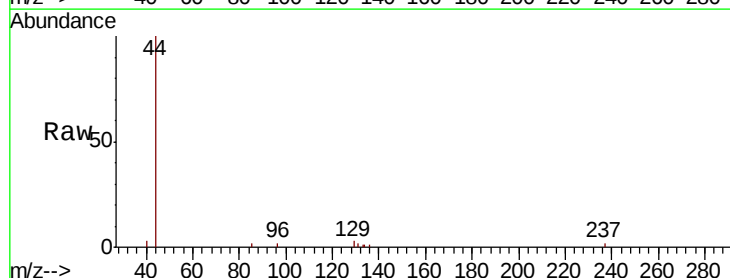
Acq: 31 Jul 2018 19:49

Tgt Ion: 85 Resp: 79

Ion Ratio Lower Upper

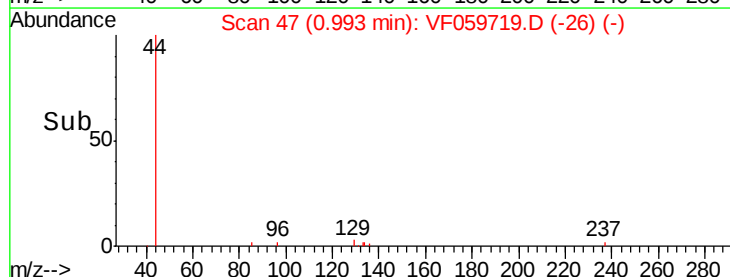
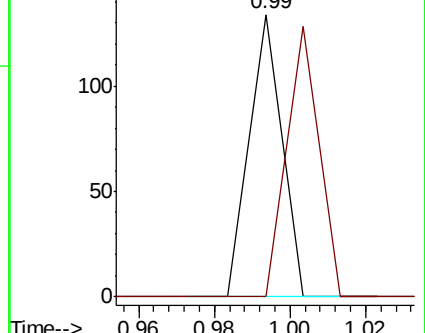
85 100

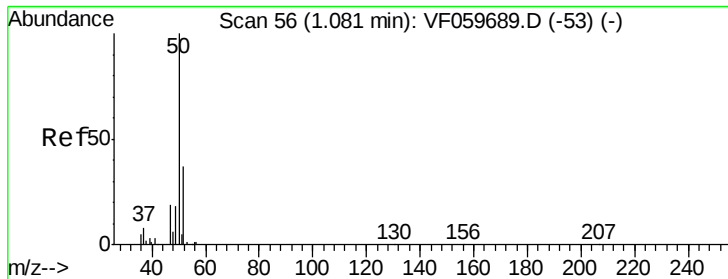
87 0.0 15.3 45.8#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: Below Cal

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

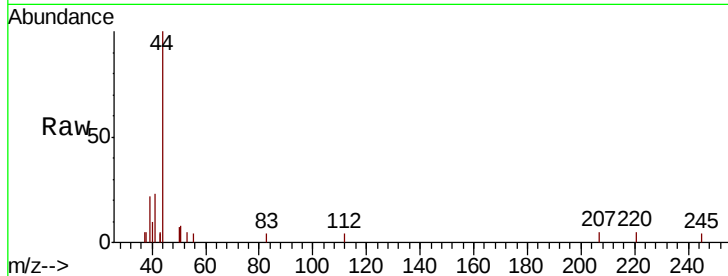
EPE-F-8(130-132)

Tot Ion: 50 Resp: 166

Ion Ratio Lower Upper

50 100

52 0.0 29.1 43.7#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

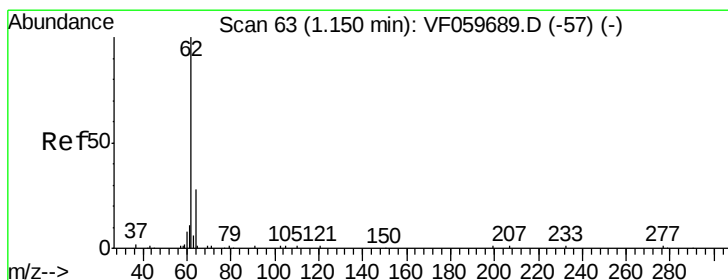
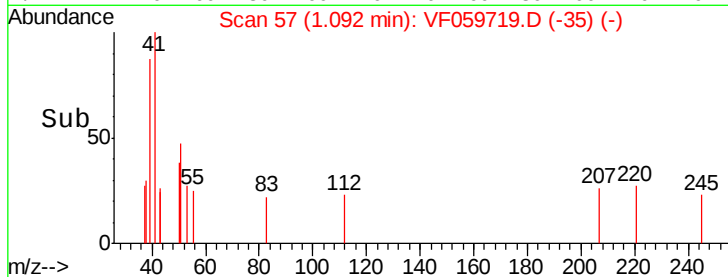
150

100

50

0

Time-->



#4

Vinyl Chloride

Concen: Below Cal

RT: 1.21 min Scan# 69

Delta R.T. 0.06 min

Lab File: VF059719.D

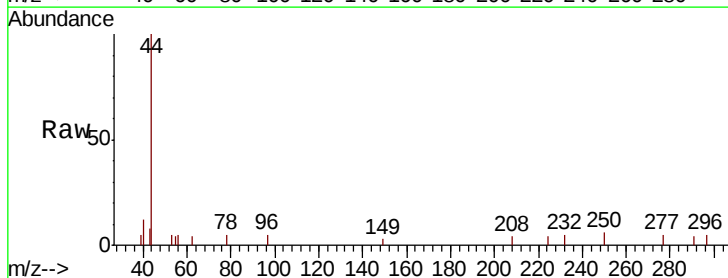
Acq: 31 Jul 2018 19:49

Tgt Ion: 62 Resp: 73

Ion Ratio Lower Upper

62 100

64 0.0 22.6 33.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

250

200

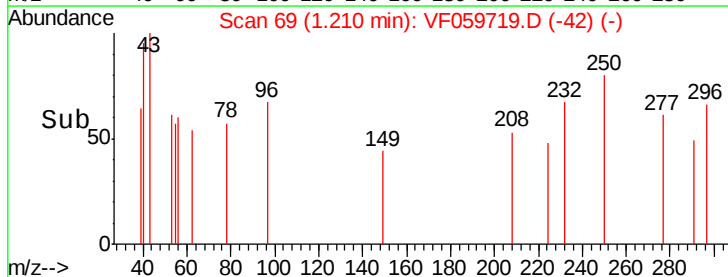
150

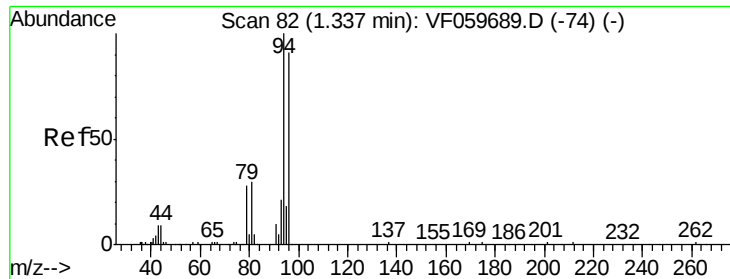
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.34 min Scan# 82

Delta R.T. 0.00 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

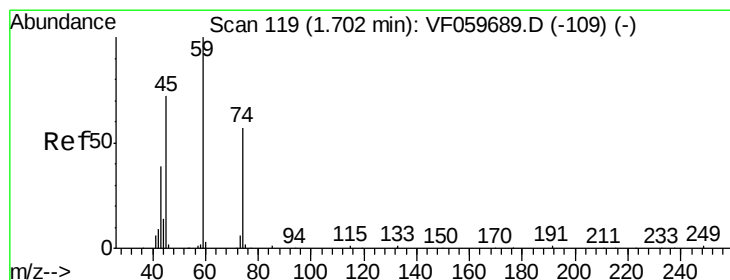
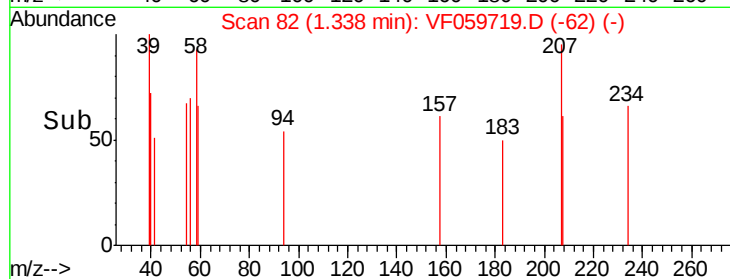
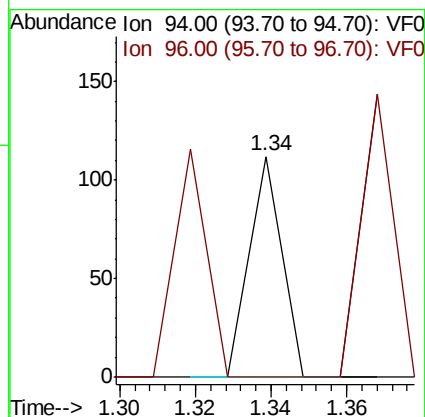
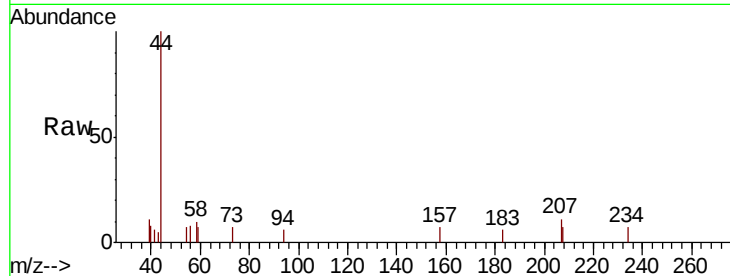
EPE-F-8(130-132)

Tot Ion: 94 Resp: 66

Ion Ratio Lower Upper

94 100

96 0.0 73.6 110.4#



#8

Diethyl Ether

Concen: 4.199 ug/l

RT: 1.59 min Scan# 108

Delta R.T. -0.11 min

Lab File: VF059719.D

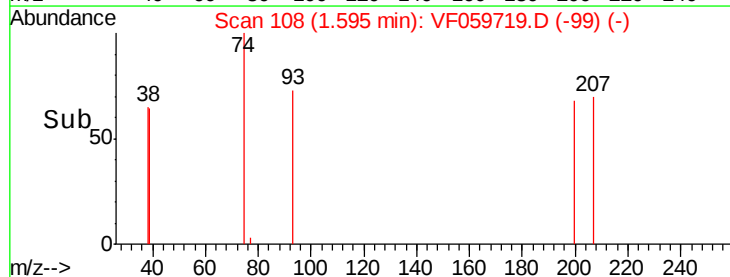
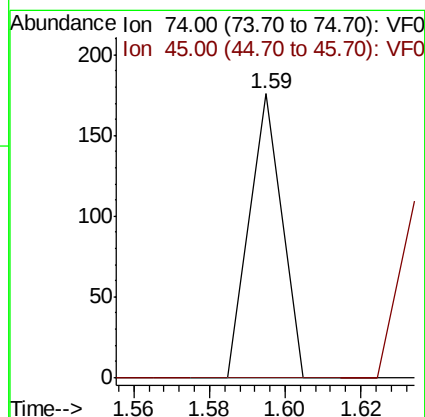
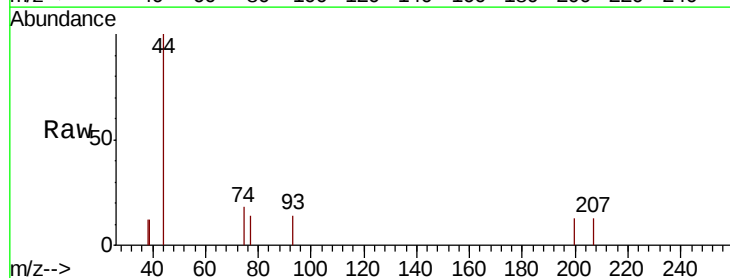
Acq: 31 Jul 2018 19:49

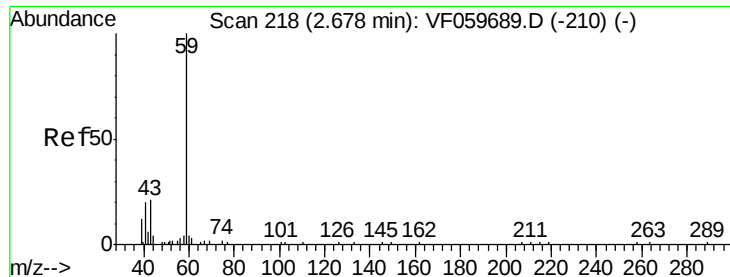
Tgt Ion: 74 Resp: 104

Ion Ratio Lower Upper

74 100

45 0.0 62.7 188.2#



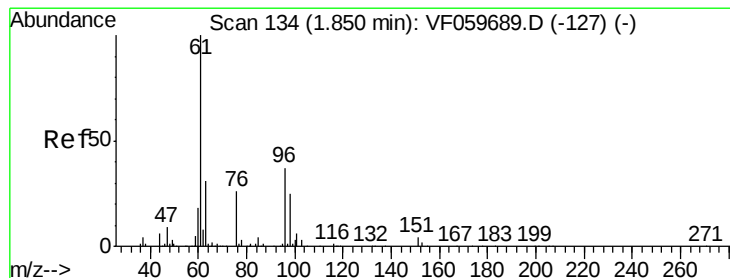
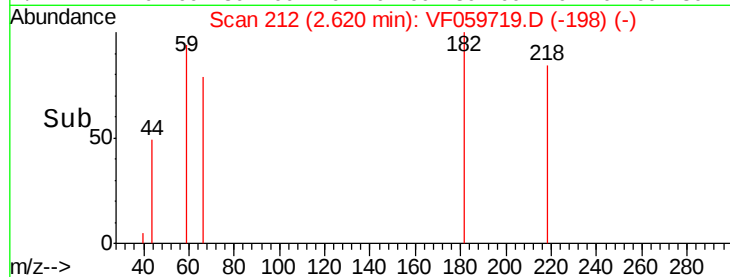
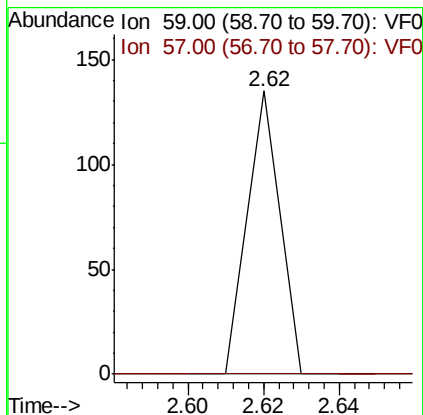
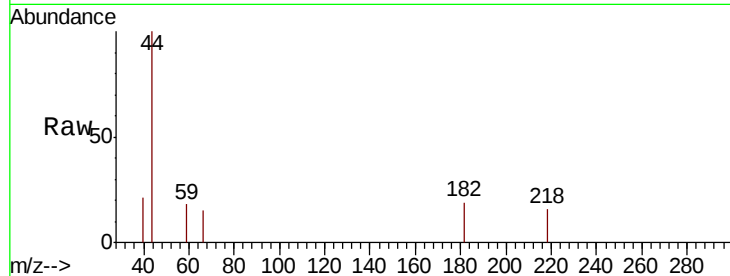


#11

Tert butyl alcohol
 Concen: 12.850 ug/l
 RT: 2.62 min Scan# 212
 Delta R.T. -0.06 min
 Lab File: VF059719.D
 Acq: 31 Jul 2018 19:49

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 MSVOA_F
 ClientSampleId :
 EPE-F-8(130-132)

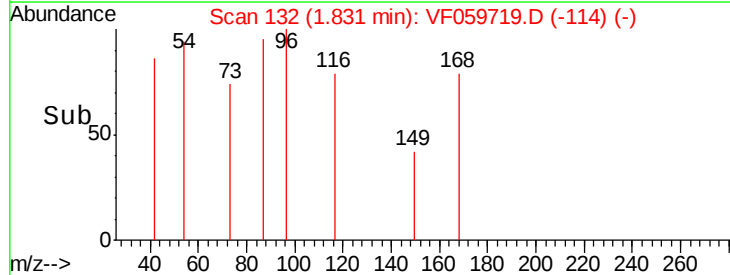
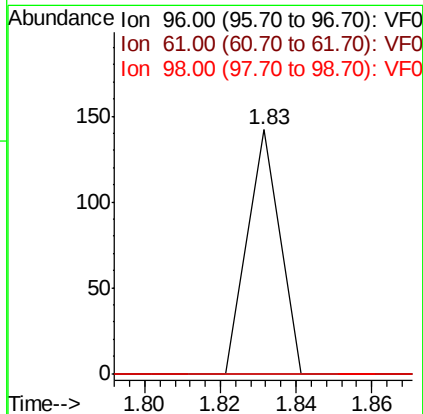
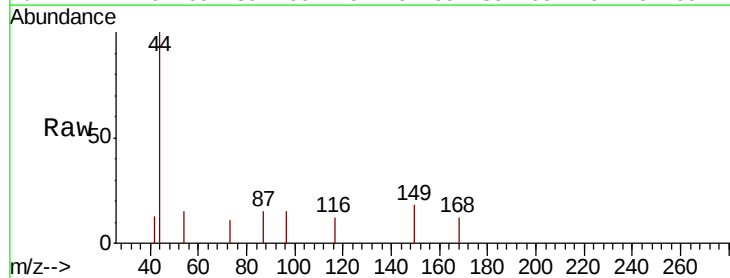
Tot Ion: 59 Resp: 80
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

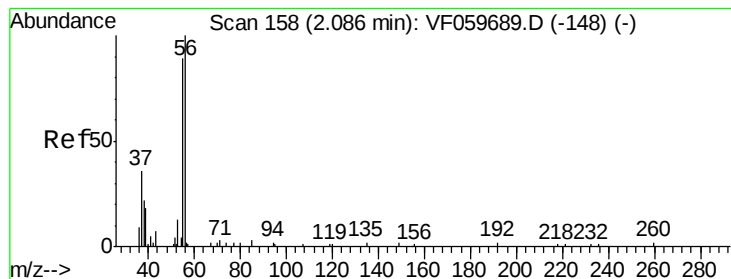


#12

1,1-Dichloroethene
 Concen: 1.399 ug/l
 RT: 1.83 min Scan# 132
 Delta R.T. -0.02 min
 Lab File: VF059719.D
 Acq: 31 Jul 2018 19:49

Tgt Ion: 96 Resp: 84
 Ion Ratio Lower Upper
 96 100
 61 0.0 215.1 322.7#
 98 0.0 54.3 81.5#





#13

Acrolein

Concen: 41.493 ug/l

RT: 2.06 min Scan# 155

Delta R.T. -0.03 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

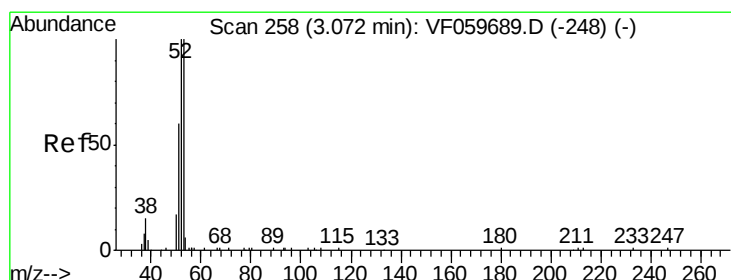
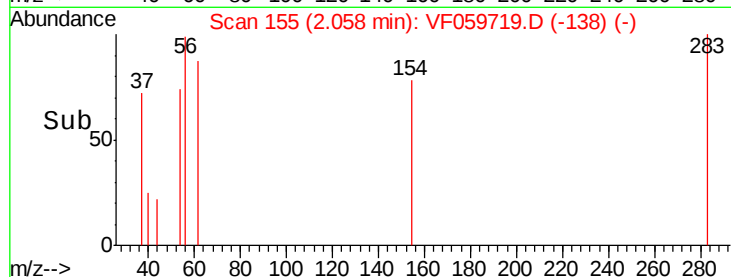
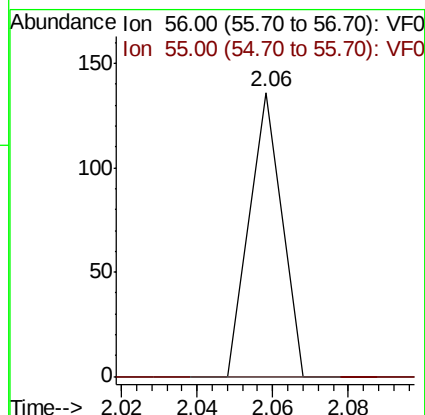
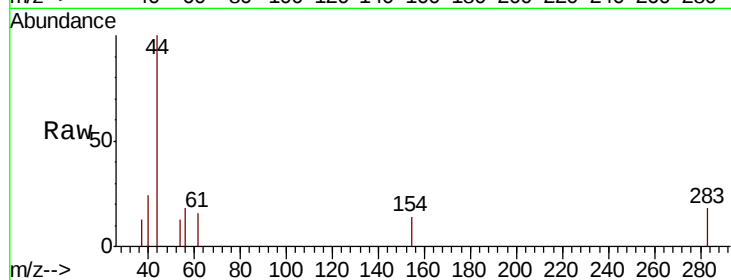
EPE-F-8(130-132)

Tot Ion: 56 Resp: 80

Ion Ratio Lower Upper

56 100

55 0.0 73.2 109.8#



#15

Acrylonitrile

Concen: 9.498 ug/l

RT: 3.17 min Scan# 268

Delta R.T. 0.10 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

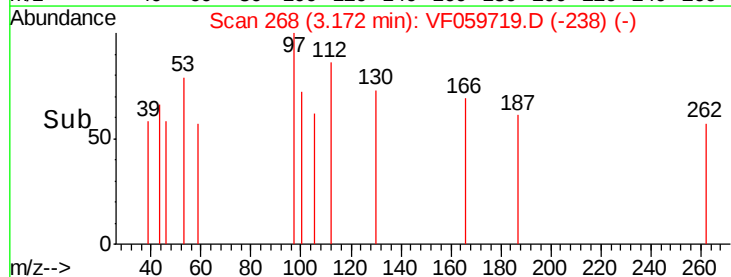
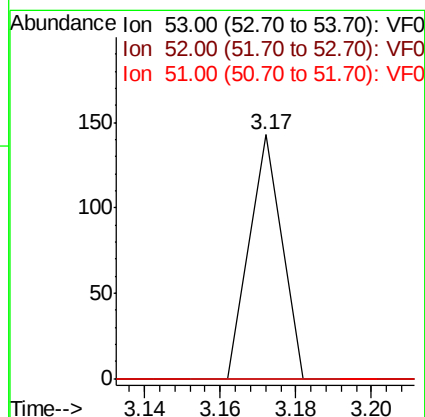
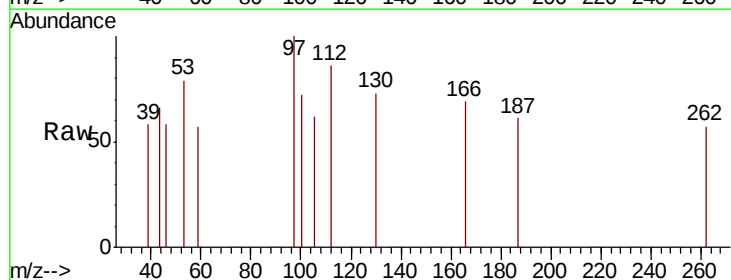
Tgt Ion: 53 Resp: 85

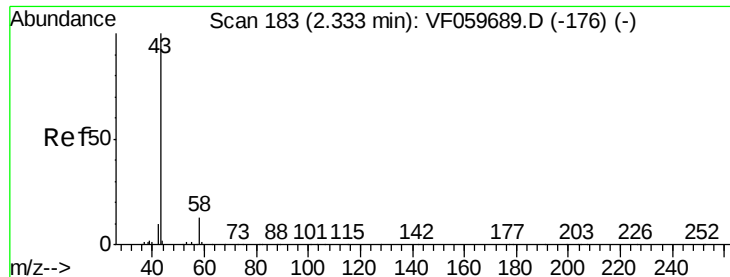
Ion Ratio Lower Upper

53 100

52 0.0 80.3 120.5#

51 0.0 49.4 74.0#





#16

Acetone

Concen: 11.407 ug/l

RT: 2.30 min Scan# 180

Delta R.T. -0.03 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

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ClientSampleId :

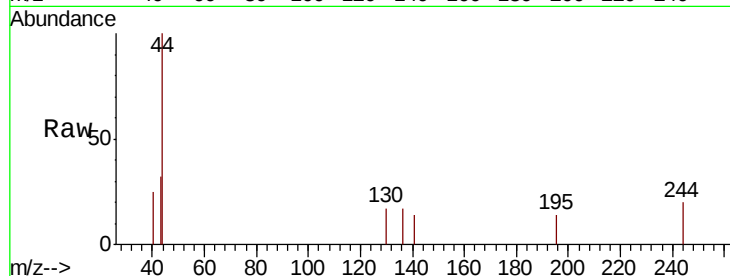
EPE-F-8(130-132)

Tot Ion: 43 Resp: 286

Ion Ratio Lower Upper

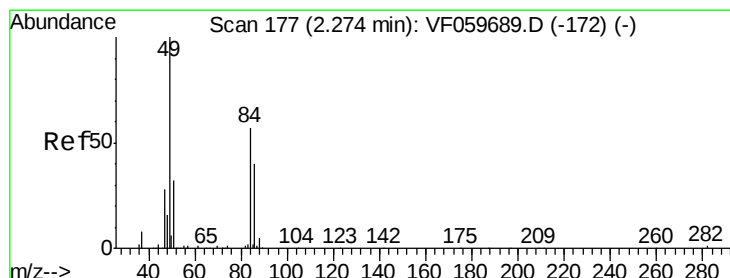
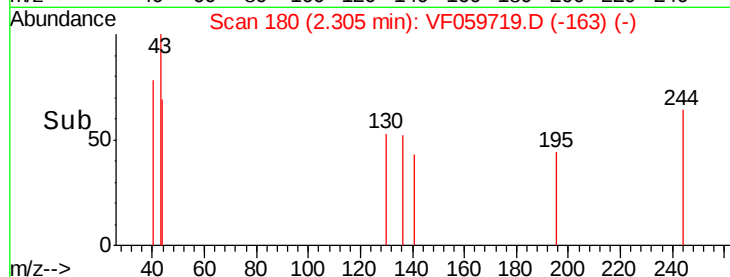
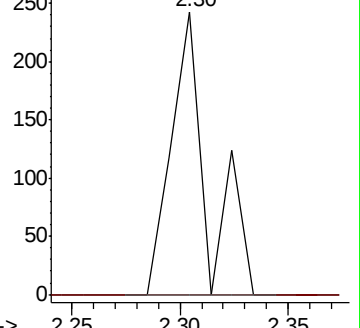
43 100

58 0.0 10.1 15.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 177

Delta R.T. 0.00 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Tgt Ion: 84 Resp: 63

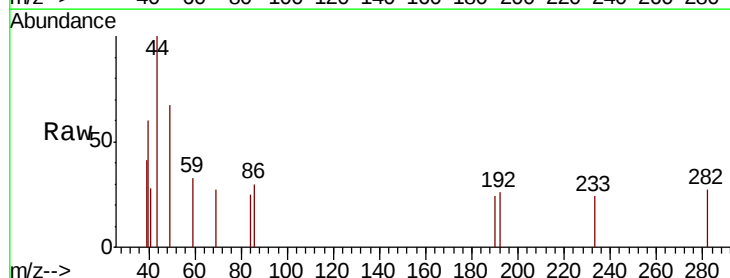
Ion Ratio Lower Upper

84 100

49 263.6 142.2 213.4#

51 0.0 46.2 69.2#

86 117.8 57.1 85.7#

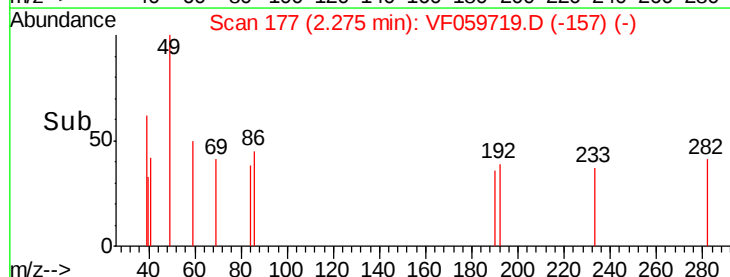
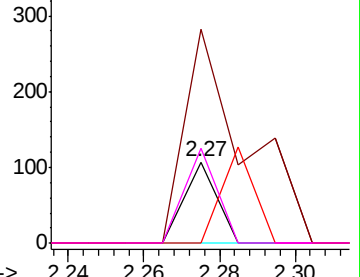


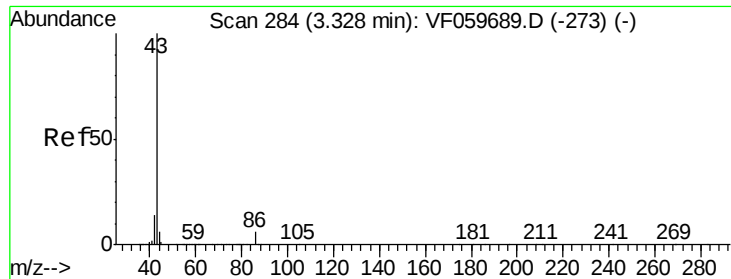
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#23

Vinyl Acetate

Concen: 1.065 ug/l

RT: 3.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

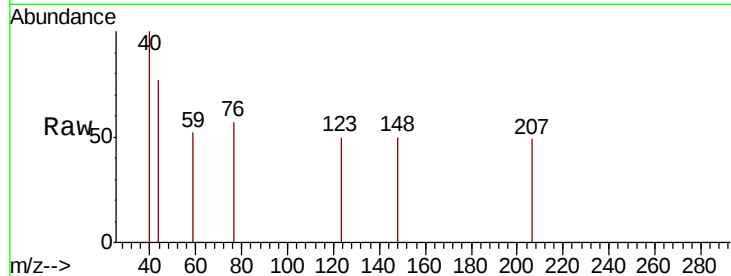
EPE-F-8(130-132)

Tot Ion: 43 Resp: 111

Ion Ratio Lower Upper

43 100

86 0.0 4.6 6.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.34

200

150

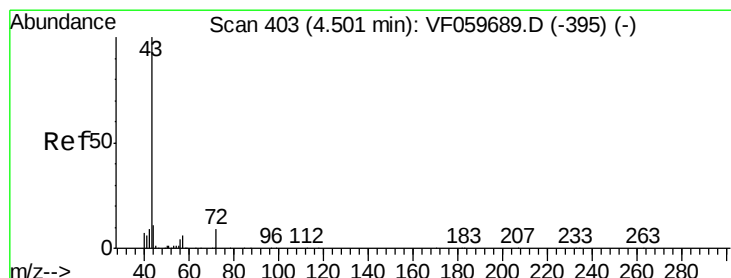
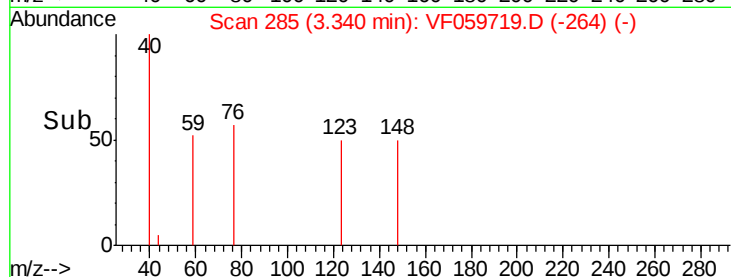
100

50

0

3.32 3.34 3.36

Time-->



#25

2-Butanone

Concen: 3.359 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.04 min

Lab File: VF059719.D

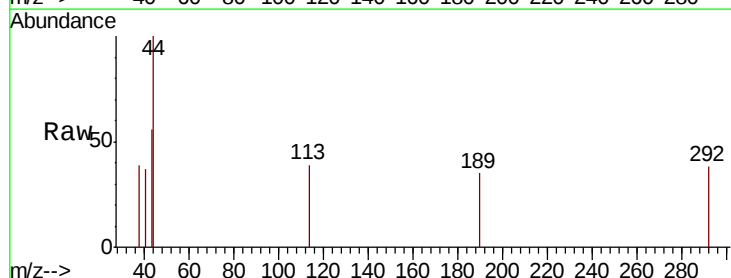
Acq: 31 Jul 2018 19:49

Tgt Ion: 43 Resp: 94

Ion Ratio Lower Upper

43 100

72 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.54

150

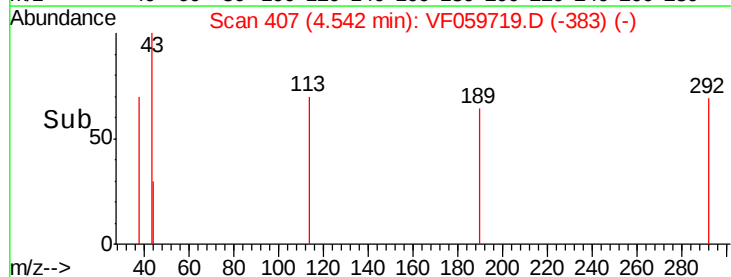
100

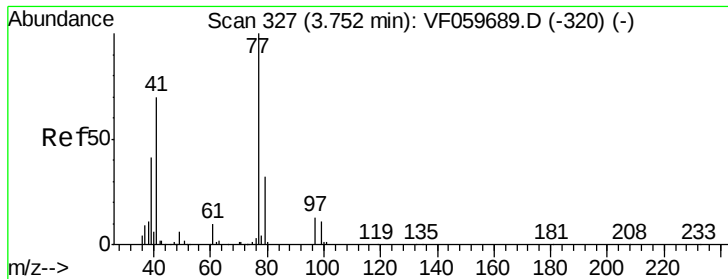
50

0

4.52 4.54 4.56

Time-->





#26

2,2-Dichloropropane

Concen: 1.503 ug/l

RT: 3.88 min Scan# 340

Delta R.T. 0.13 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

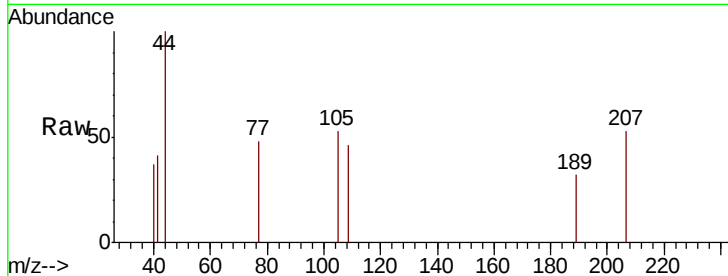
EPE-F-8(130-132)

Tot Ion: 77.00 (76.70 to 77.70): VF0

Ion Ratio Lower Upper

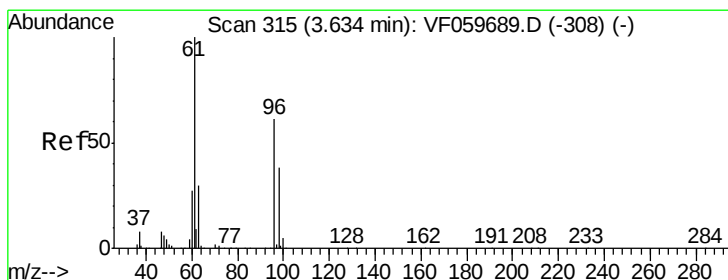
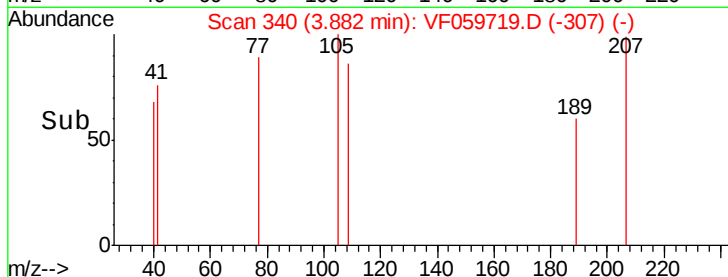
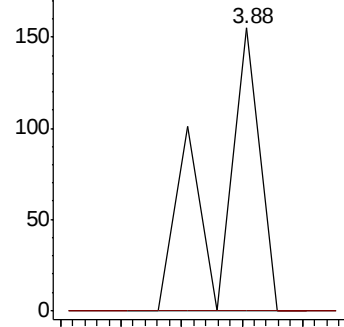
77 100

97 0.0 6.8 20.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 1.021 ug/l

RT: 3.48 min Scan# 299

Delta R.T. -0.16 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

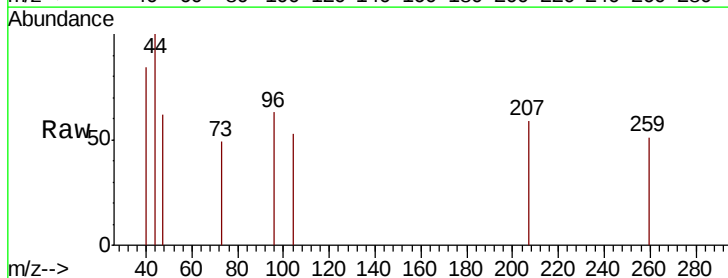
Tgt Ion: 96 Resp: 77

Ion Ratio Lower Upper

96 100

61 0.0 0.0 326.8

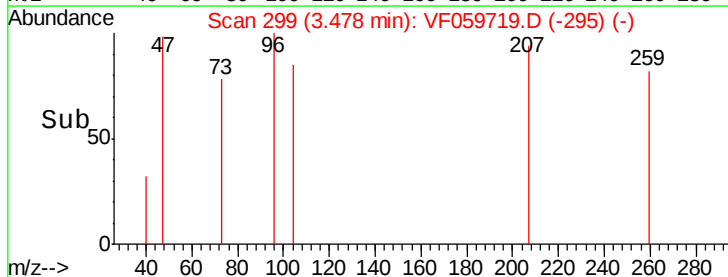
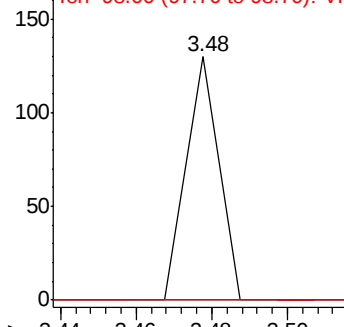
98 0.0 0.0 125.2

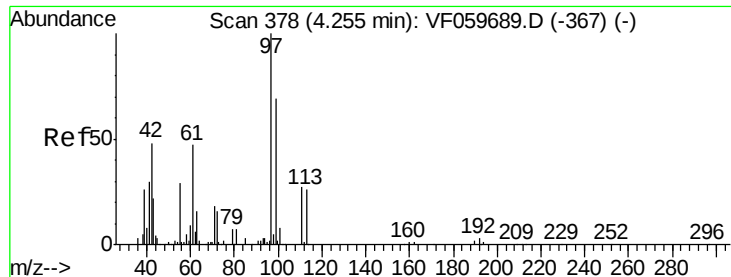


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

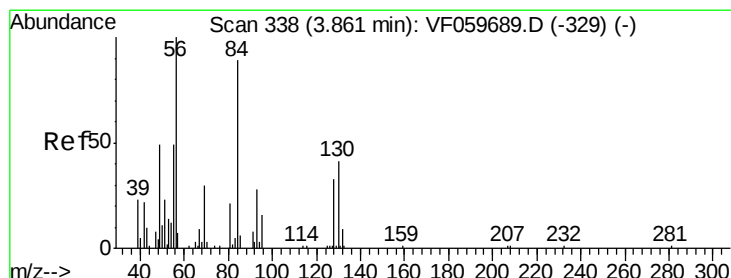
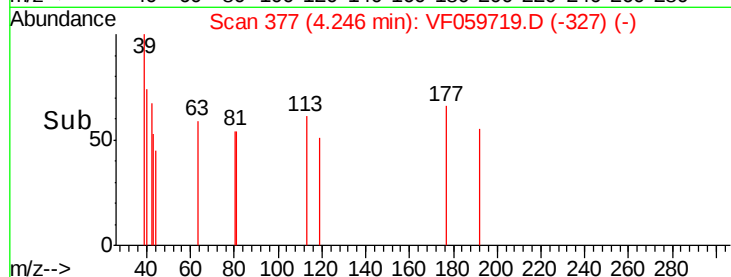
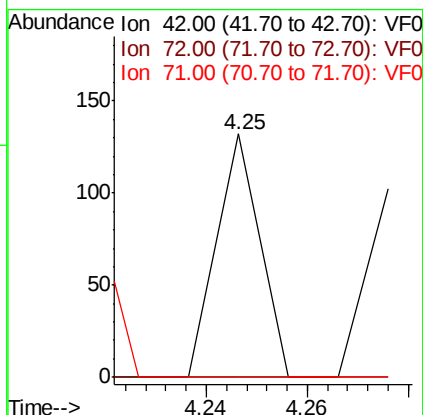
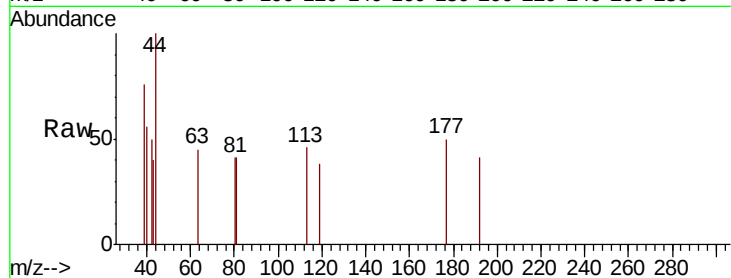




#29
Tetrahydrofuran
Concen: 7.253 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.01 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

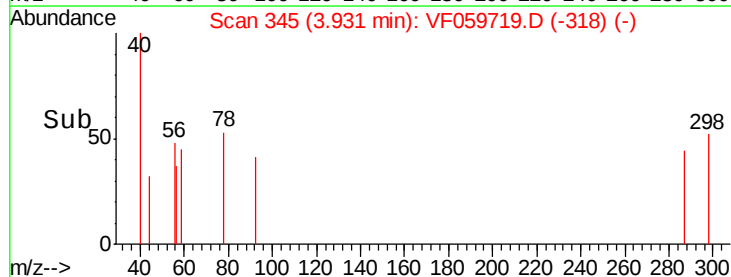
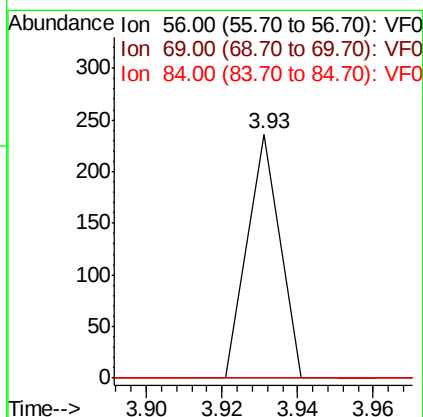
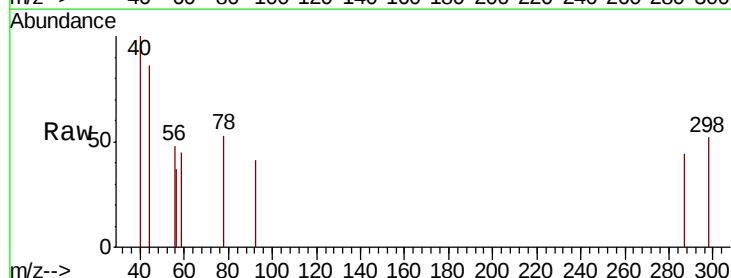
Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(130-132)

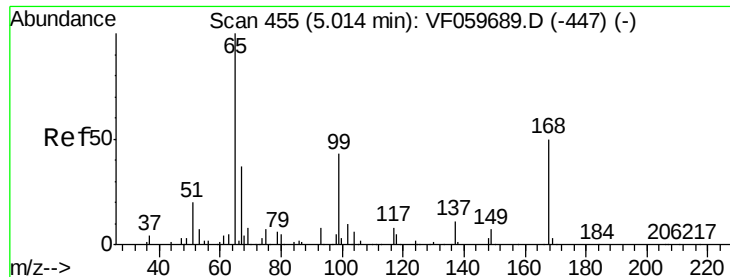
Tot Ion: 42 Resp: 78
Ion Ratio Lower Upper
42 100
72 0.0 27.0 40.6#
71 0.0 29.7 44.5#



#31
Cyclohexane
Concen: Below Cal
RT: 3.93 min Scan# 345
Delta R.T. 0.07 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Tgt Ion: 56 Resp: 140
Ion Ratio Lower Upper
56 100
69 0.0 23.7 35.5#
84 0.0 71.1 106.7#

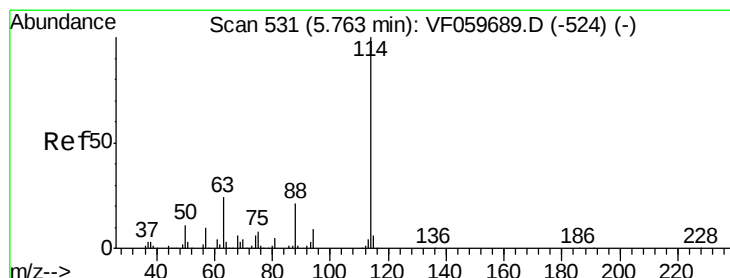
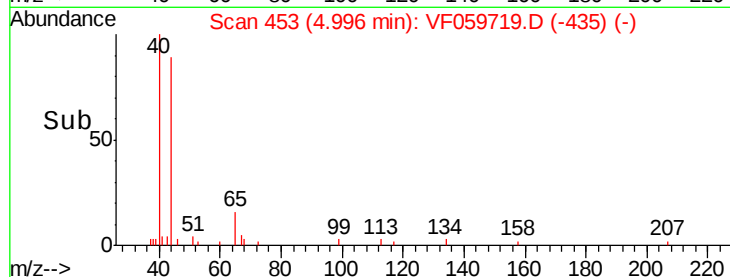
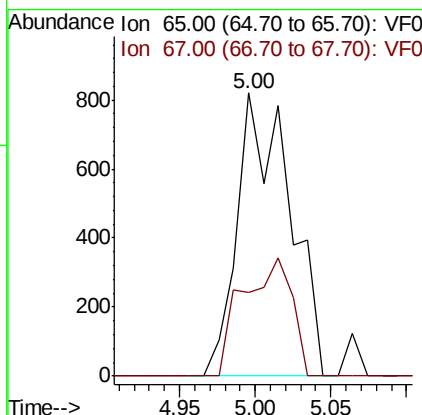
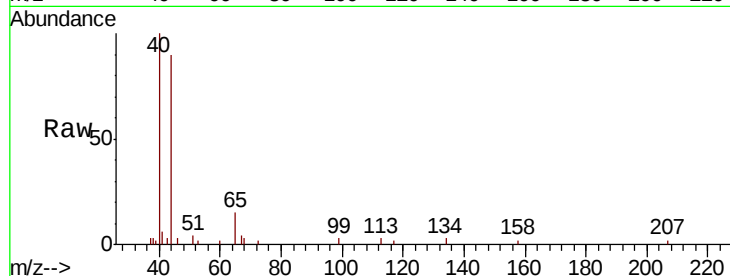




#33
 1,2-Dichloroethane-d4
 Concen: 14.233 ug/l
 RT: 5.00 min Scan# 453
 Delta R.T. -0.02 min
 Lab File: VF059719.D
 Acq: 31 Jul 2018 19:49

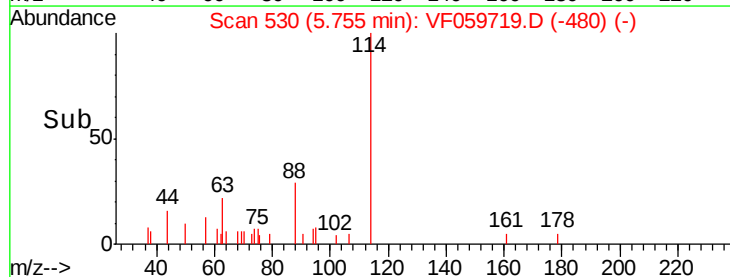
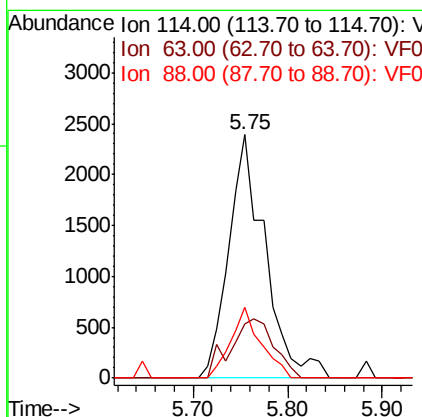
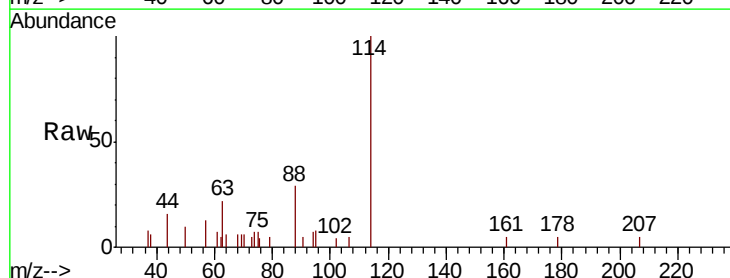
Instrument :
 MSVOA_F
 ClientSampleId :
 EPE-F-8(130-132)

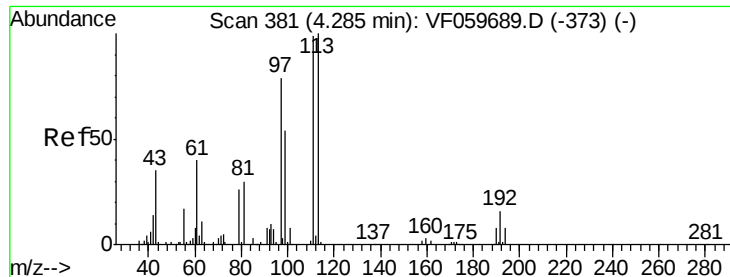
Tot Ion: 65 Resp: 1984
 Ion Ratio Lower Upper
 65 100
 67 29.6 0.0 84.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VF059719.D
 Acq: 31 Jul 2018 19:49

Tgt Ion: 114 Resp: 6362
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 47.4
 88 29.1 0.0 41.2





#35

Dibromofluoromethane

Concen: 40.285 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.00 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(130-132)

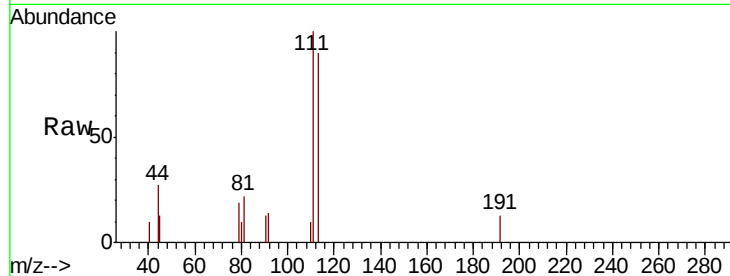
Tot Ion:113 Resp: 2662

Ion Ratio Lower Upper

113 100

111 111.1 79.0 118.4

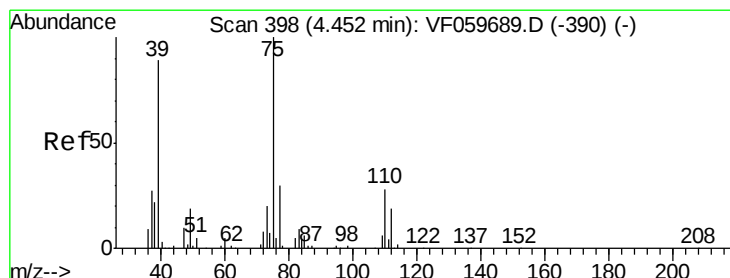
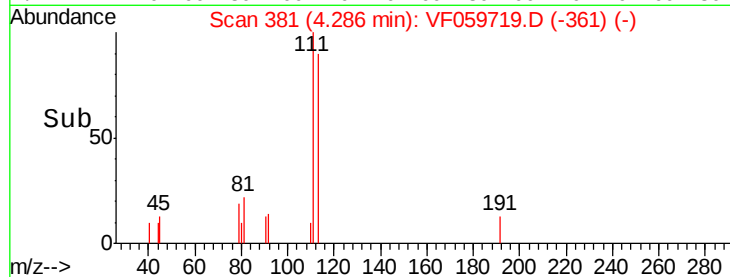
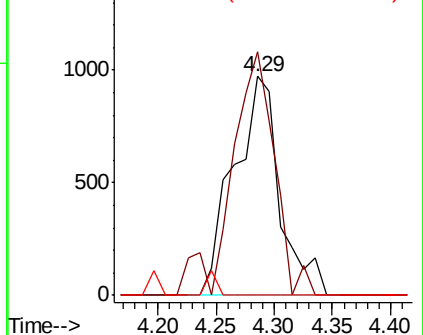
192 0.0 13.2 19.8#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: Below Cal

RT: 4.43 min Scan# 396

Delta R.T. -0.02 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

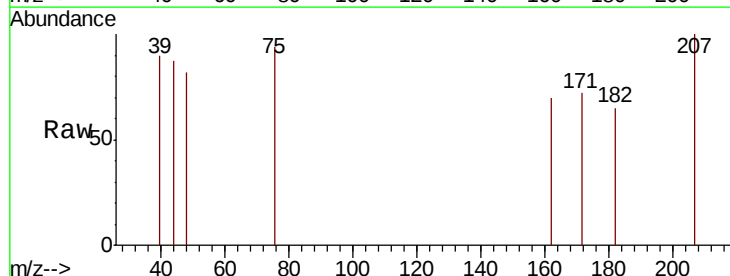
Tgt Ion: 75 Resp: 85

Ion Ratio Lower Upper

75 100

110 0.0 14.0 41.9#

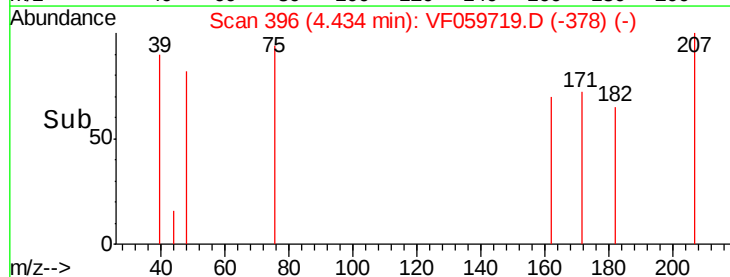
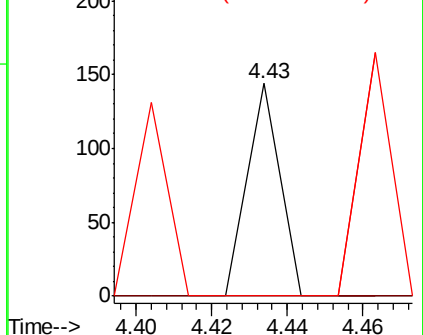
77 0.0 24.2 36.2#

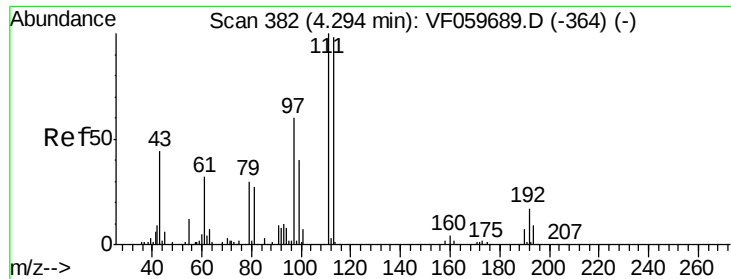


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

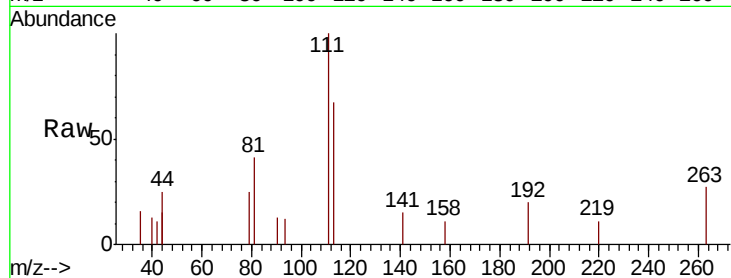




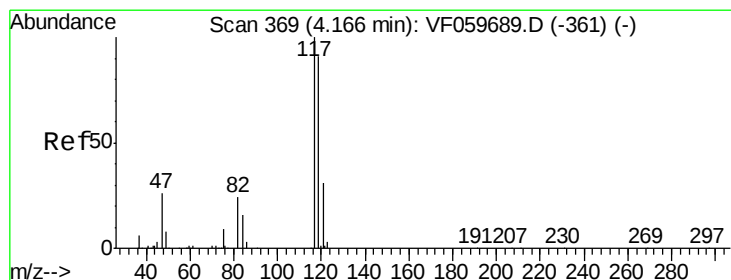
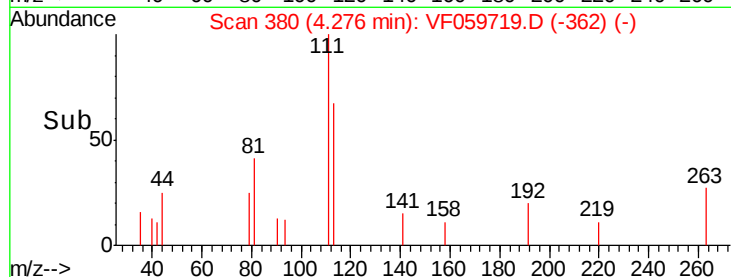
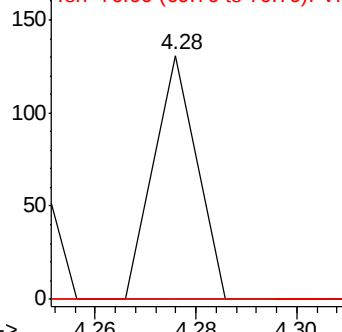
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 380
Delta R.T. -0.02 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(130-132)

Tot Ion: 43 Resp: 78
Ion Ratio Lower Upper
43 100
61 0.0 58.2 87.2#
70 0.0 6.0 9.0#

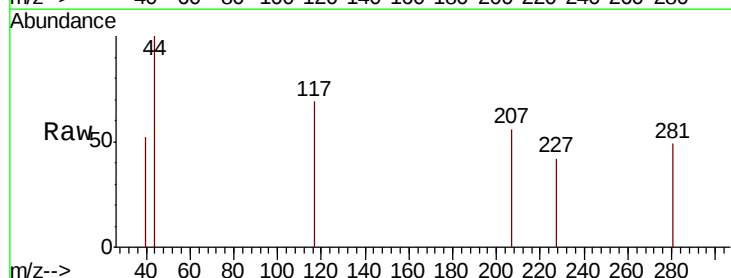


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

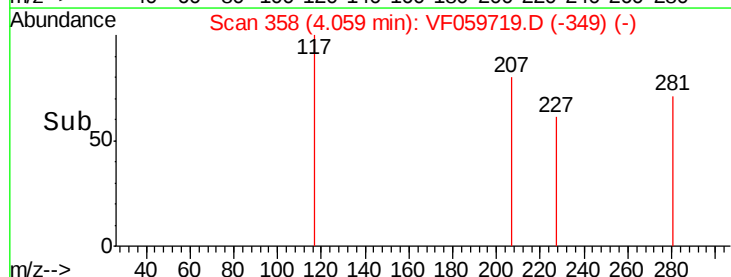
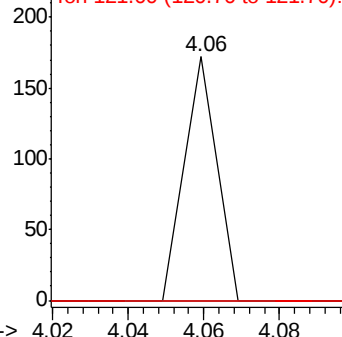


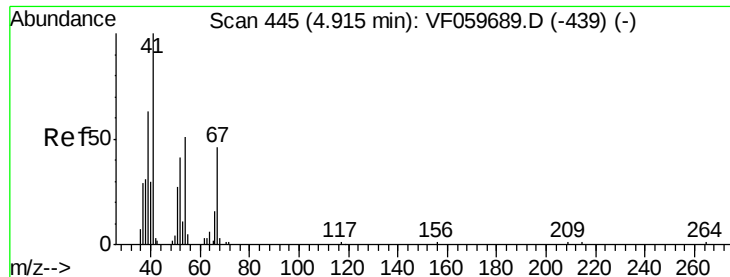
#38
Carbon Tetrachloride
Concen: 1.008 ug/l
RT: 4.06 min Scan# 358
Delta R.T. -0.11 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Tgt Ion: 117 Resp: 102
Ion Ratio Lower Upper
117 100
119 0.0 72.9 109.3#
121 0.0 25.0 37.4#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

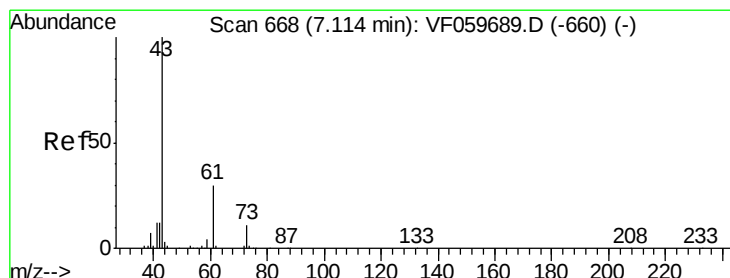
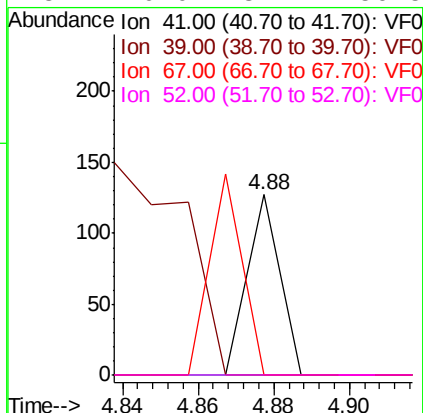
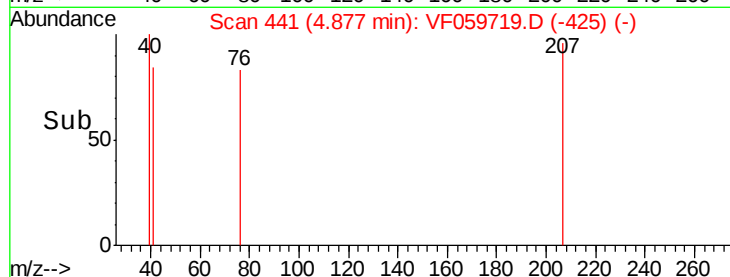
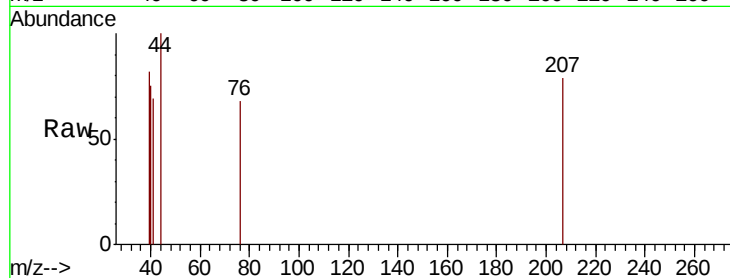




#41
Methacrylonitrile
Concen: 1.986 ug/l
RT: 4.88 min Scan# 441
Delta R.T. -0.04 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

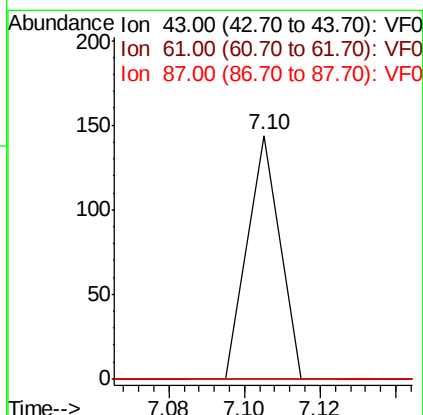
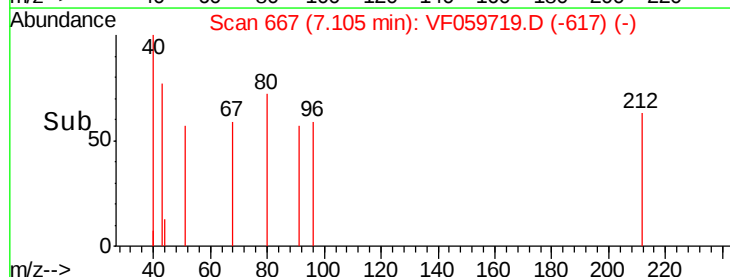
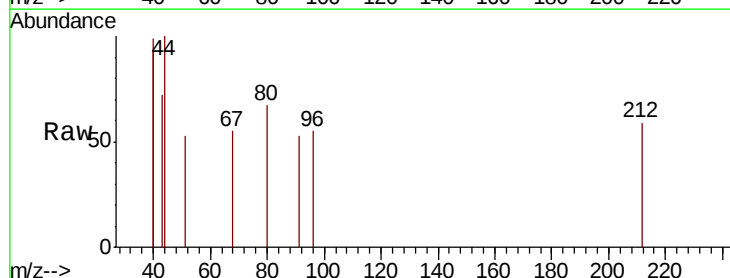
Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(130-132)

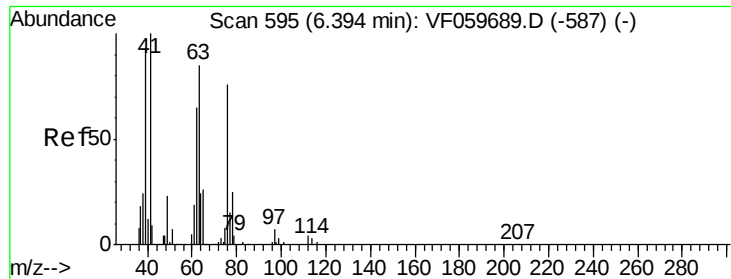
Tot Ion:	41	Resp:	75
Ion	Ratio	Lower	Upper
41	100		
39	119.7	55.2	82.8#
67	0.0	36.2	54.2#
52	0.0	37.7	56.5#



#43
Isopropyl Acetate
Concen: 2.234 ug/l
RT: 7.10 min Scan# 667
Delta R.T. -0.01 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Tgt Ion:	43	Resp:	85
Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.8	35.8#
87	0.0	0.6	1.0#

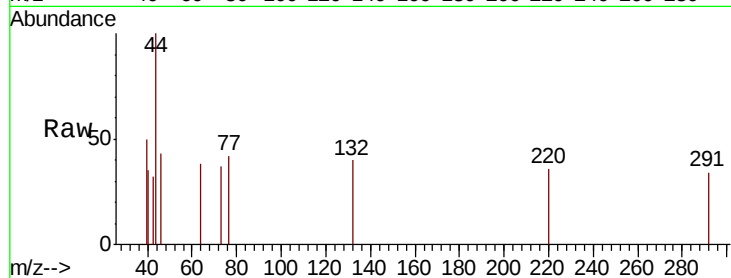




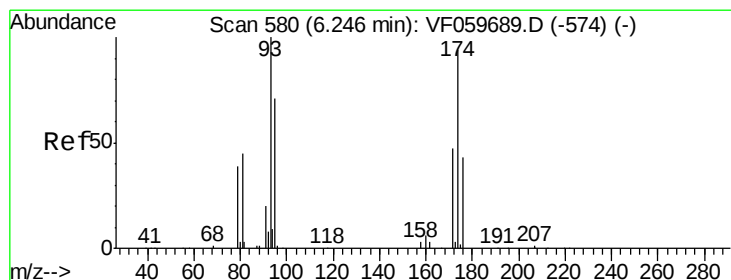
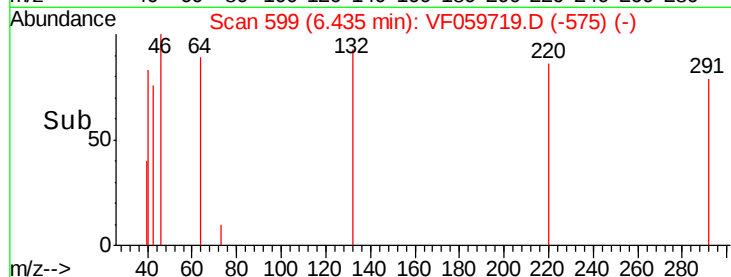
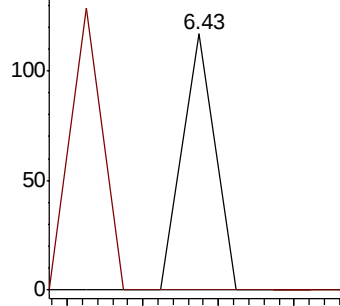
#45
 1,2-Dichloropropane
 Concen: 2.034 ug/l
 RT: 6.43 min Scan# 599
 Delta R.T. 0.04 min
 Lab File: VF059719.D
 Acq: 31 Jul 2018 19:49

Instrument :
 MSVOA_F
 ClientSampleId :
 EPE-F-8(130-132)

Tot Ion: 63 Resp: 69
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#

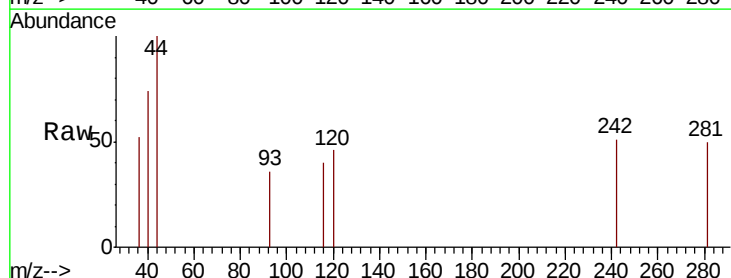


Abundance Ion 63.00 (62.70 to 63.70): VF0
 Ion 65.00 (64.70 to 65.70): VF0

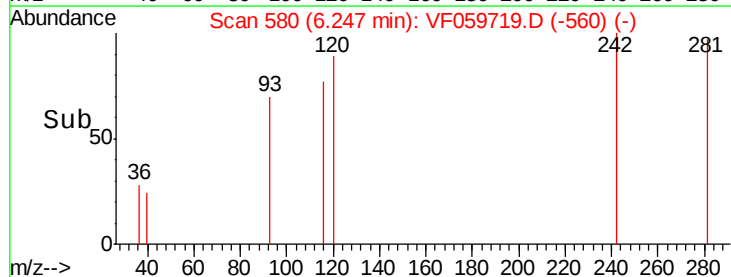
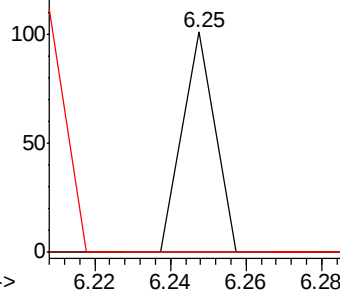


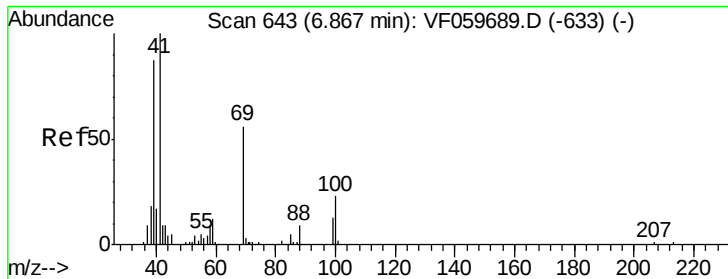
#46
 Dibromomethane
 Concen: 1.863 ug/l
 RT: 6.25 min Scan# 580
 Delta R.T. 0.00 min
 Lab File: VF059719.D
 Acq: 31 Jul 2018 19:49

Tgt Ion: 93 Resp: 60
 Ion Ratio Lower Upper
 93 100
 95 0.0 57.1 85.7#
 174 0.0 74.8 112.2#



Abundance Ion 93.00 (92.70 to 93.70): VF0
 Ion 95.00 (94.70 to 95.70): VF0
 Ion 174.00 (173.70 to 174.70): V

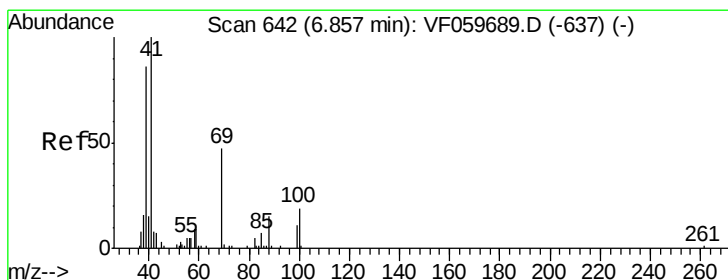
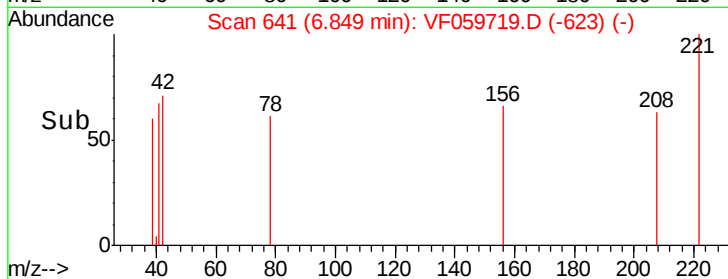
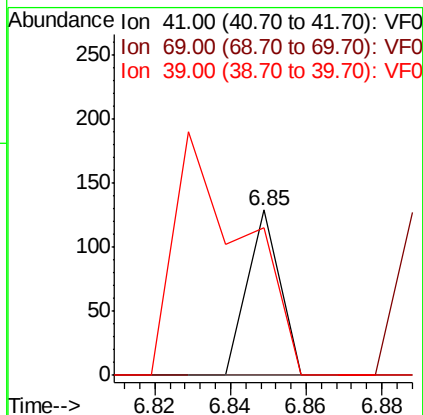
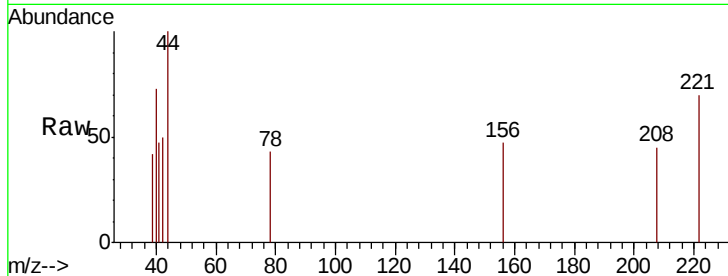




#48
Methvl methacrylate
Concen: 2.656 ug/l
RT: 6.85 min Scan# 641
Delta R.T. -0.02 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

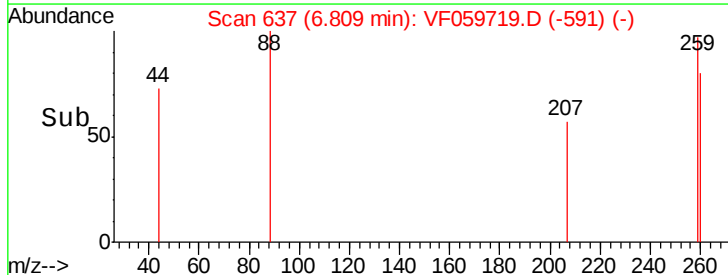
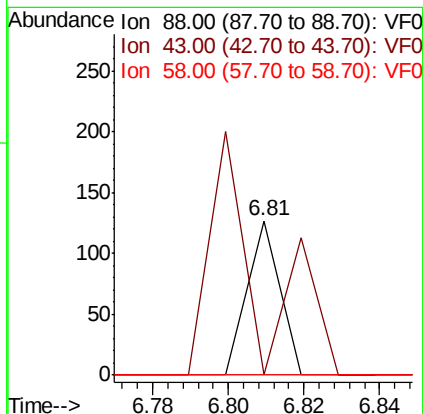
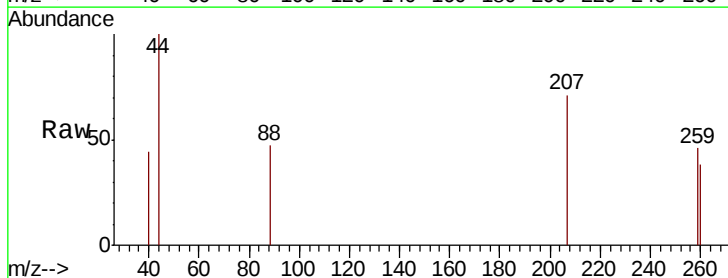
Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(130-132)

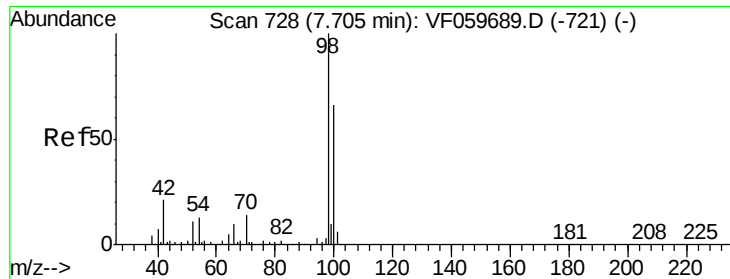
Tot Ion: 41 Resp: 76
Ion Ratio Lower Upper
41 100
69 0.0 44.4 66.6#
39 89.1 69.4 104.2



#49
1,4-Dioxane
Concen: 379.292 ug/l
RT: 6.81 min Scan# 637
Delta R.T. -0.05 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Tgt Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 0.0 45.2 67.8#
58 0.0 49.0 73.6#





#50

Toluene-d8

Concen: 30.981 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.01 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

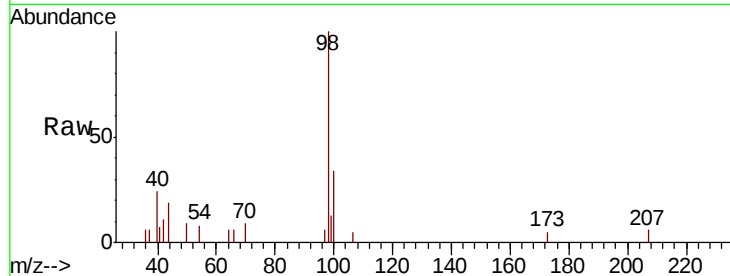
EPE-F-8(130-132)

Tot Ion: 98 Resp: 4774

Ion Ratio Lower Upper

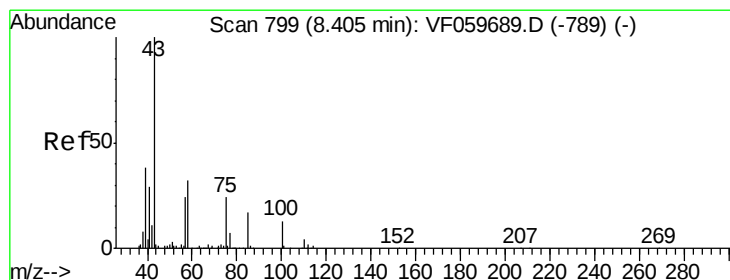
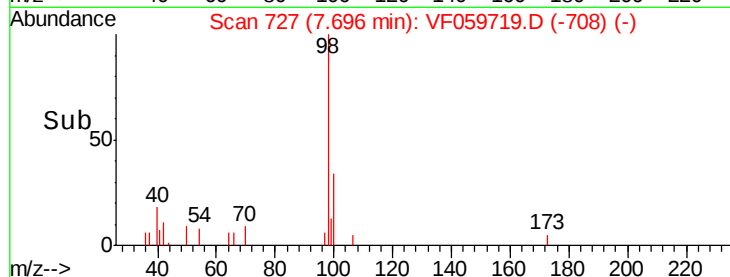
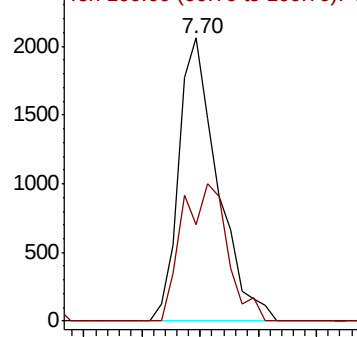
98 100

100 34.0 52.8 79.2#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 4.596 ug/l

RT: 8.38 min Scan# 796

Delta R.T. -0.03 min

Lab File: VF059719.D

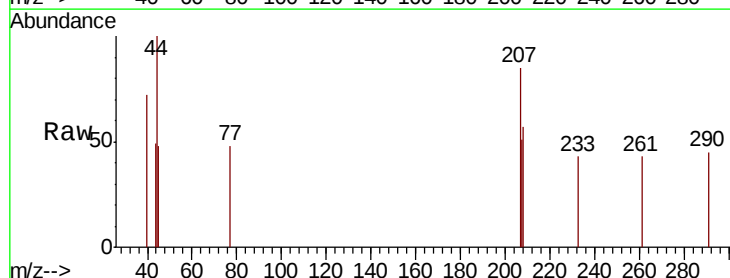
Acq: 31 Jul 2018 19:49

Tgt Ion: 43 Resp: 133

Ion Ratio Lower Upper

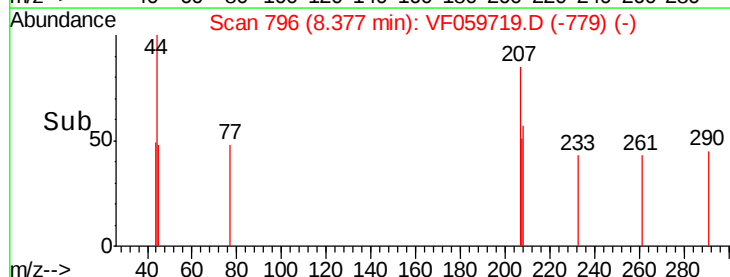
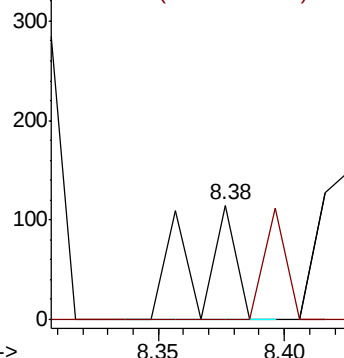
43 100

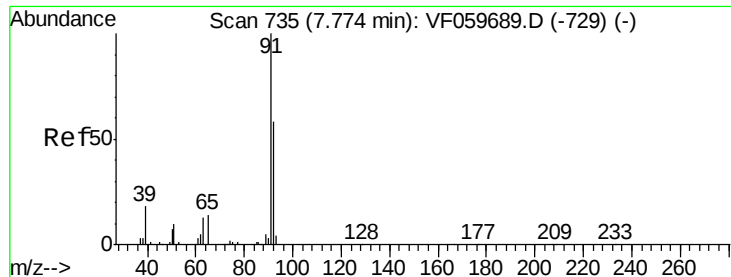
58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: Below Cal

RT: 7.66 min Scan# 723

Delta R.T. -0.12 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

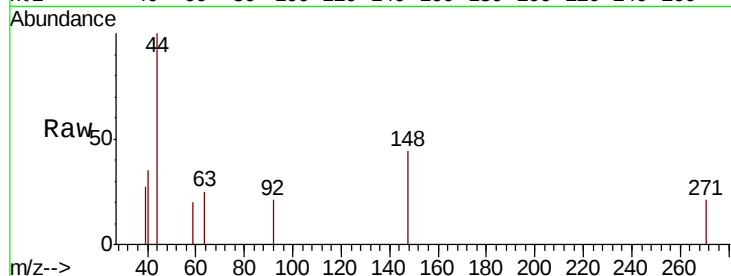
EPE-F-8(130-132)

Tot Ion: 92 Resp: 66

Ion Ratio Lower Upper

92 100

91 0.0 139.0 208.4#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.66

120

100

80

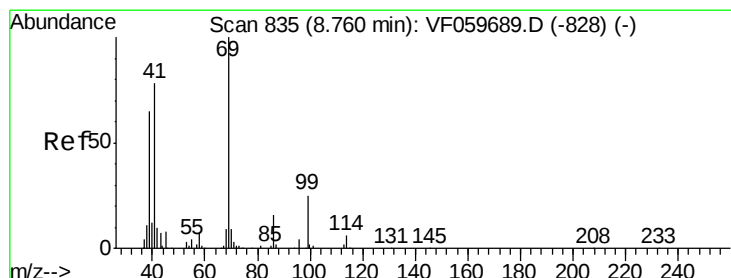
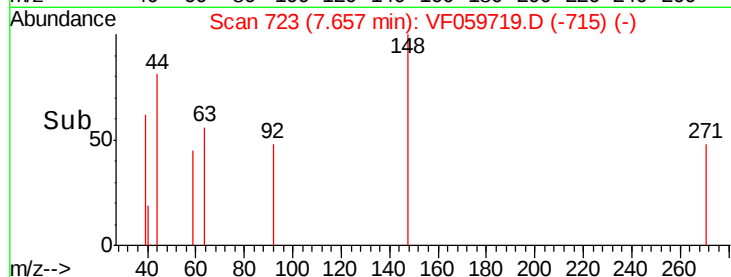
60

40

20

0

Time--> 7.62 7.64 7.66 7.68



#56

Ethyl methacrylate

Concen: 2.673 ug/l

RT: 8.84 min Scan# 843

Delta R.T. 0.08 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

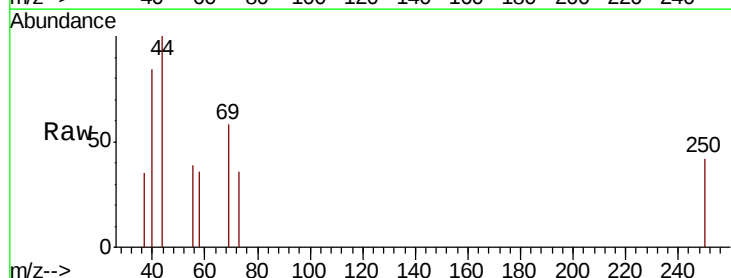
Tgt Ion: 69 Resp: 97

Ion Ratio Lower Upper

69 100

41 0.0 62.3 93.5#

39 0.0 52.4 78.6#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

250

200

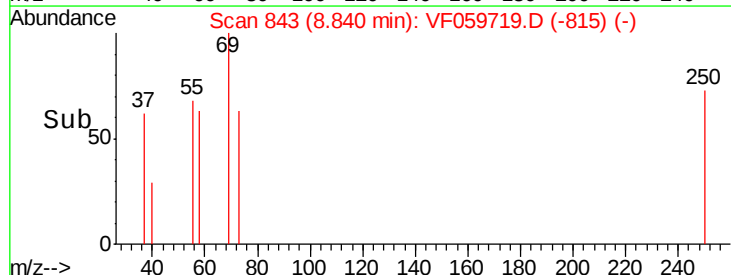
150

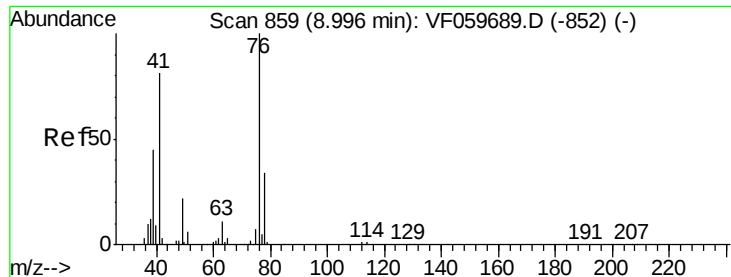
100

50

0

Time--> 8.82 8.84 8.86





#57

1,3-Dichloropropane

Concen: 1.541 ug/l

RT: 8.87 min Scan# 846

Delta R.T. -0.13 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

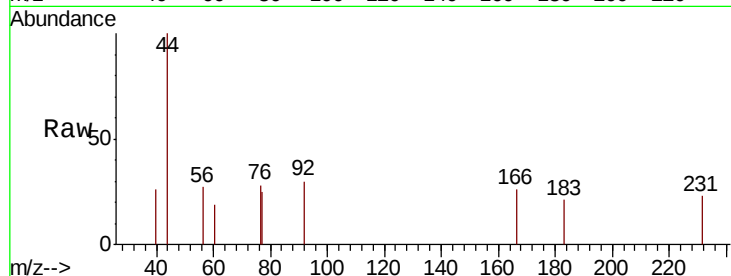
EPE-F-8(130-132)

Tot Ion: 76 Resp: 92

Ion Ratio Lower Upper

76 100

78 0.0 27.2 40.8#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

8.87

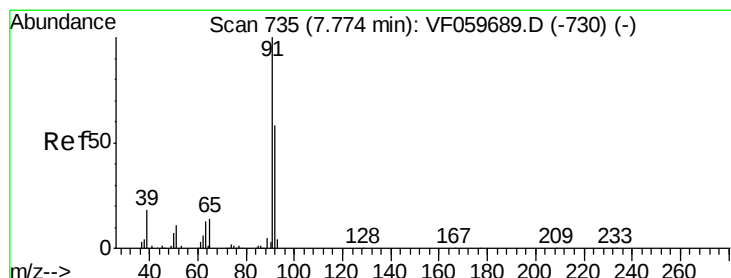
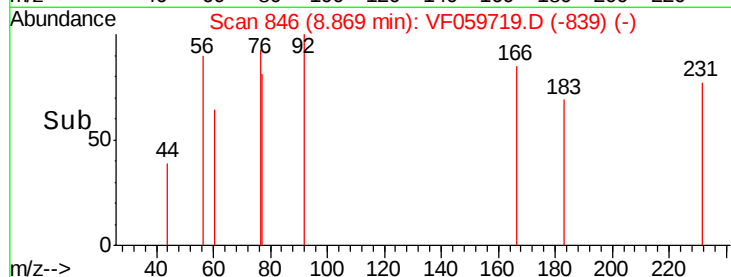
150

100

50

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 18.378 ug/l

RT: 7.66 min Scan# 723

Delta R.T. -0.12 min

Lab File: VF059719.D

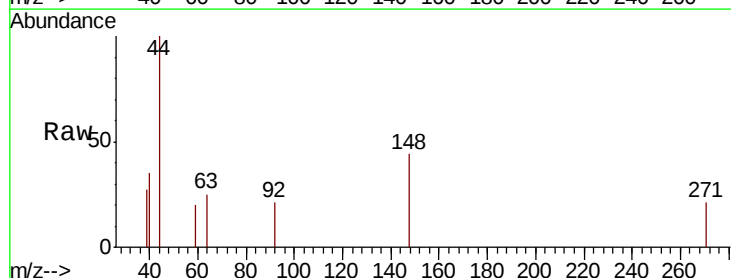
Acq: 31 Jul 2018 19:49

Tgt Ion: 63 Resp: 77

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

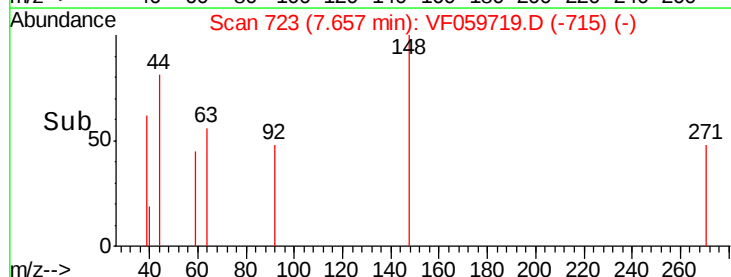
150

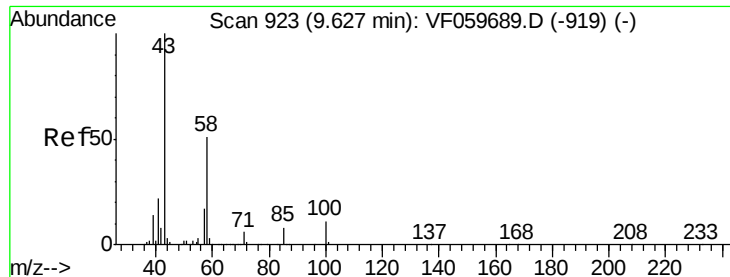
100

50

0

Time-->

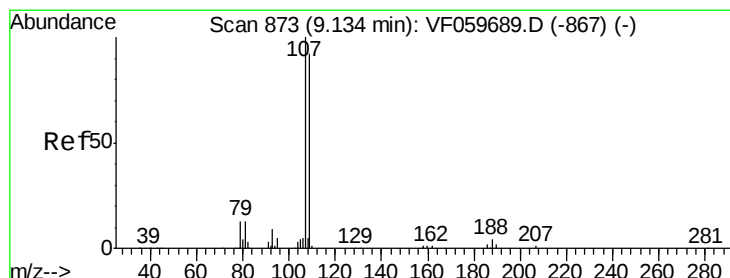
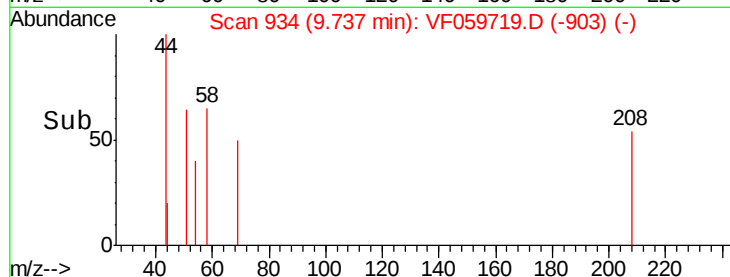
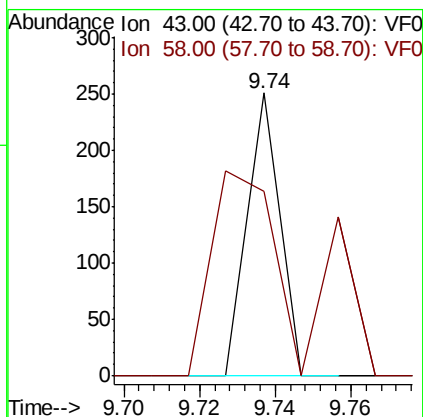
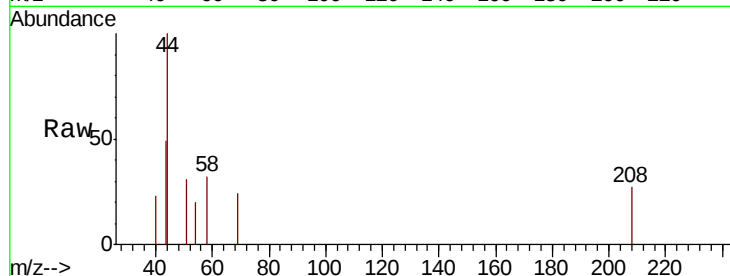




#59
2-Hexanone
Concen: 6.382 ug/l
RT: 9.74 min Scan# 934
Delta R.T. 0.11 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

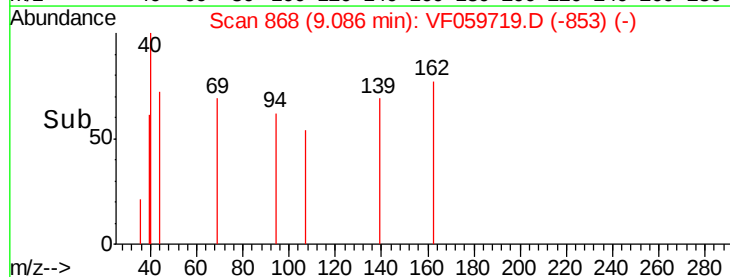
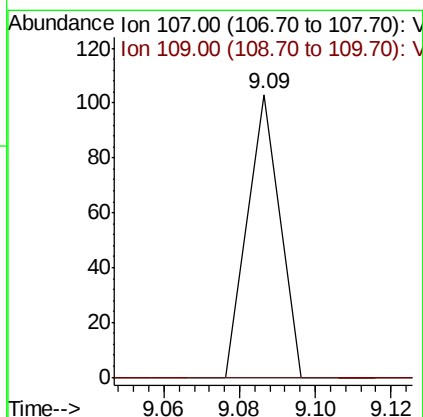
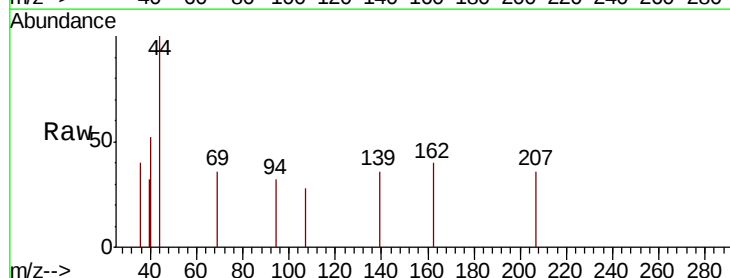
Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(130-132)

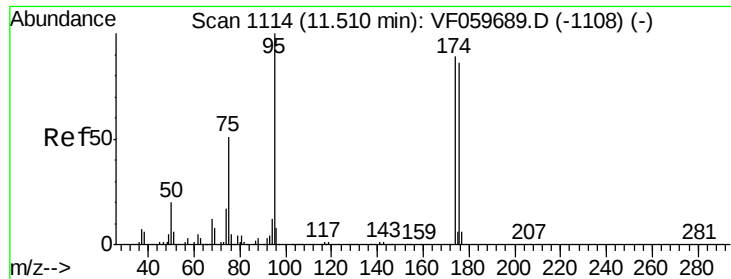
Tot Ion: 43 Resp: 148
Ion Ratio Lower Upper
43 100
58 65.3 23.3 69.8



#61
1,2-Dibromoethane
Concen: 1.501 ug/l
RT: 9.09 min Scan# 868
Delta R.T. -0.05 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Tgt Ion: 107 Resp: 61
Ion Ratio Lower Upper
107 100
109 0.0 73.6 110.4#

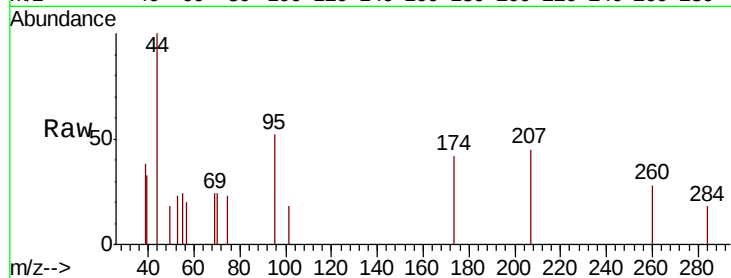




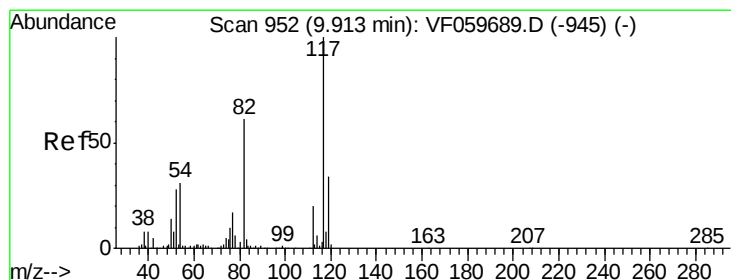
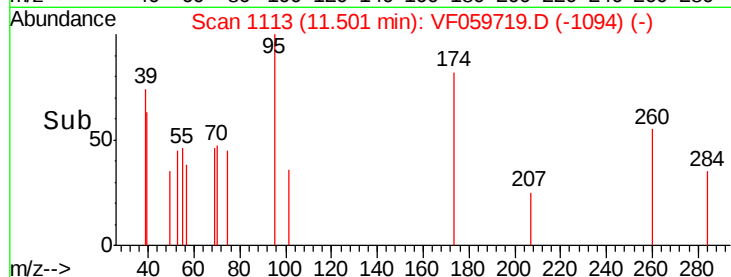
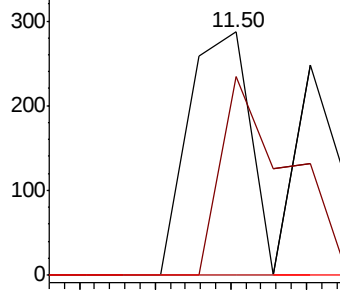
#62
4-Bromofluorobenzene
Concen: 3.786 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(130-132)

Tot Ion: 95 Resp: 323
Ion Ratio Lower Upper
95 100
174 81.9 0.0 178.4
176 0.0 0.0 173.0

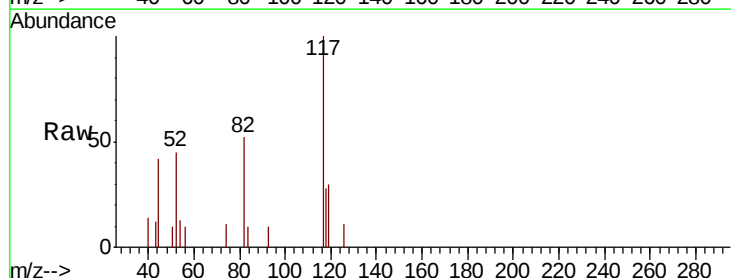


Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

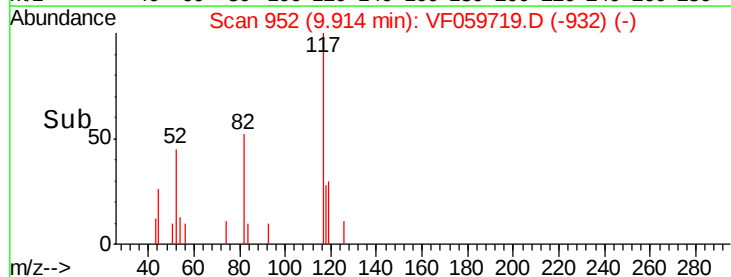
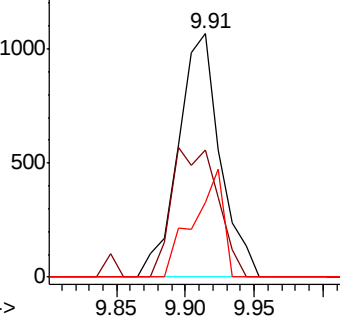


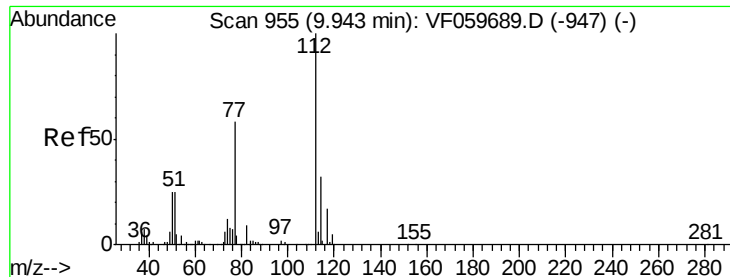
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Tgt Ion: 117 Resp: 2266
Ion Ratio Lower Upper
117 100
82 52.4 49.0 73.4
119 30.5 27.3 40.9



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

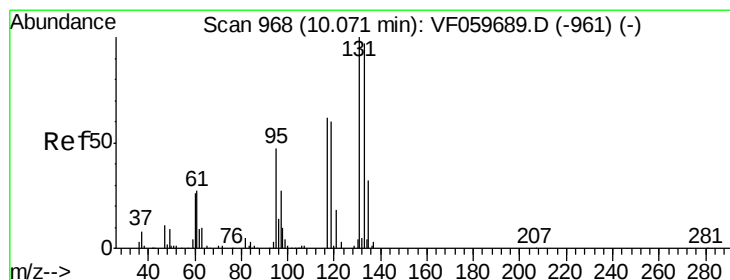
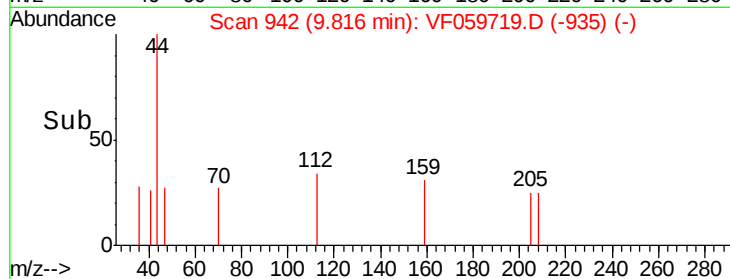
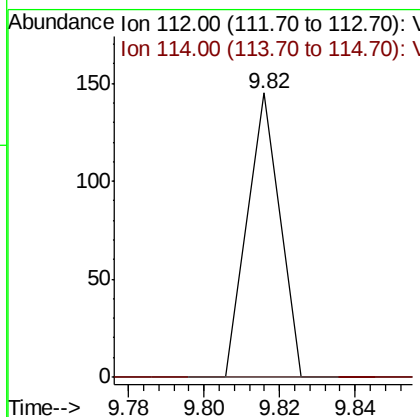
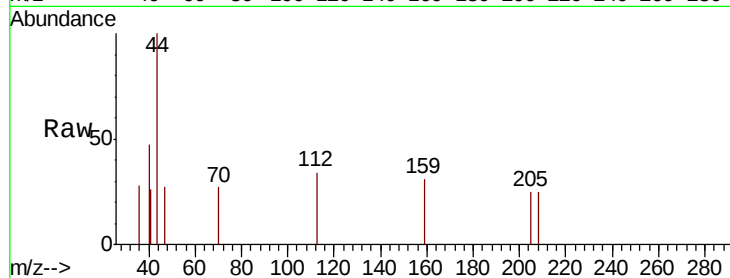




#65
Chlorobenzene
Concen: 1.897 ug/l
RT: 9.82 min Scan# 942
Delta R.T. -0.13 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

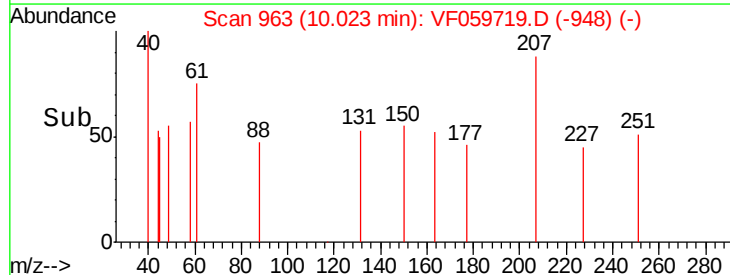
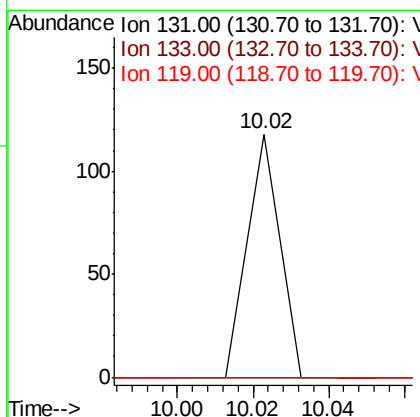
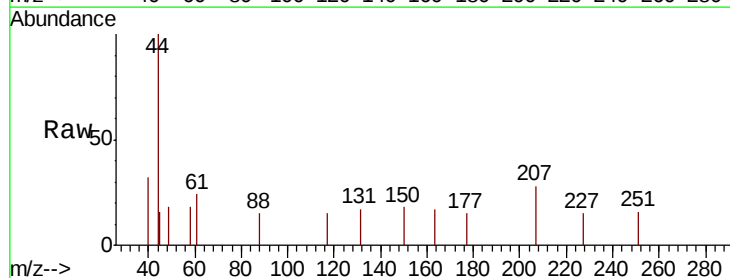
Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(130-132)

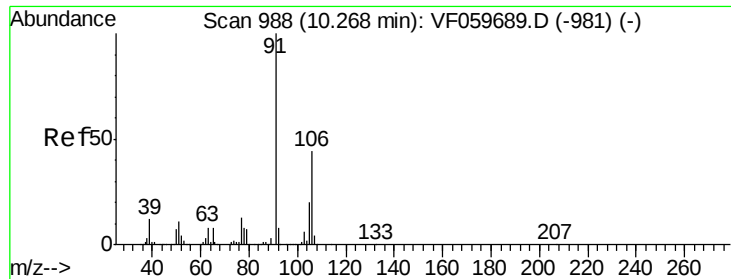
Tot Ion:112 Resp: 86
Ion Ratio Lower Upper
112 100
114 0.0 25.6 38.4#



#66
1,1,1,2-Tetrachloroethane
Concen: 3.308 ug/l
RT: 10.02 min Scan# 963
Delta R.T. -0.05 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Tgt Ion:131 Resp: 70
Ion Ratio Lower Upper
131 100
133 0.0 48.5 145.5#
119 0.0 30.3 90.8#

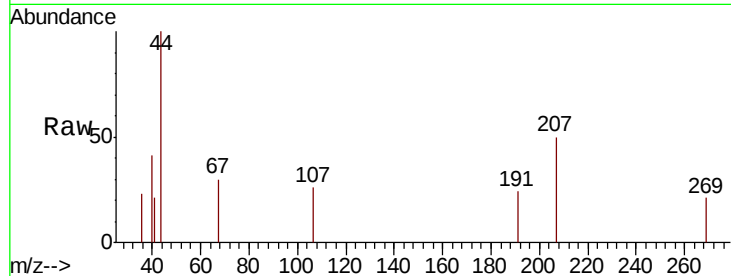




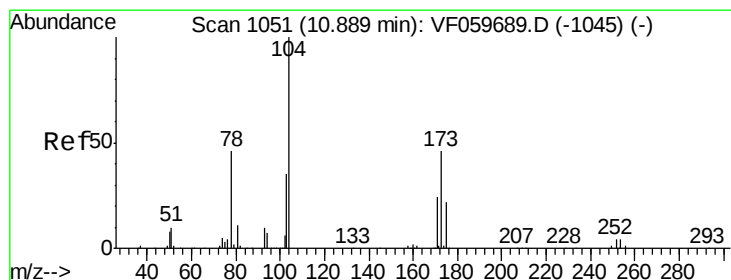
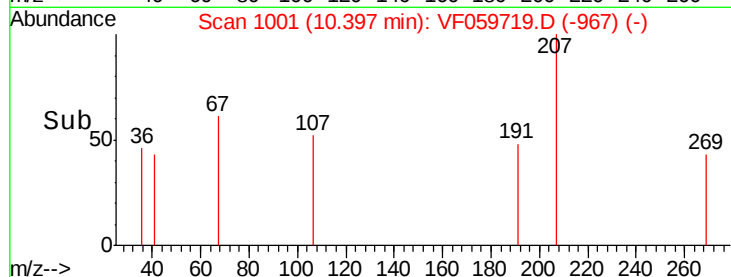
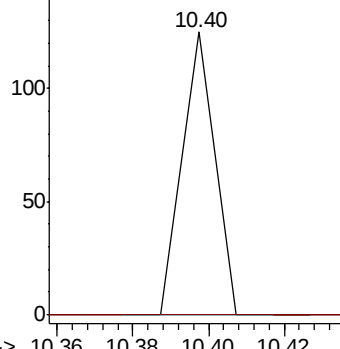
#68
m/p-Xvlenes
Concen: Below Cal
RT: 10.40 min Scan# 1001
Delta R.T. 0.13 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(130-132)

Tot Ion:106 Resp: 74
Ion Ratio Lower Upper
106 100
91 0.0 181.7 272.5#

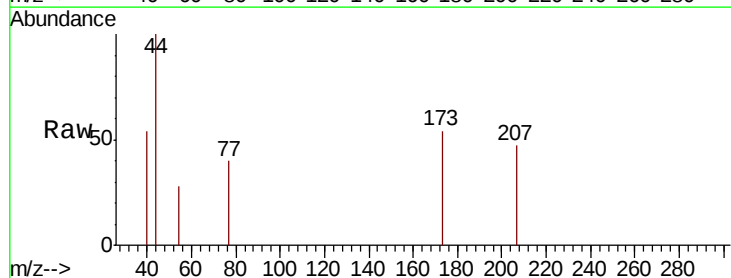


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

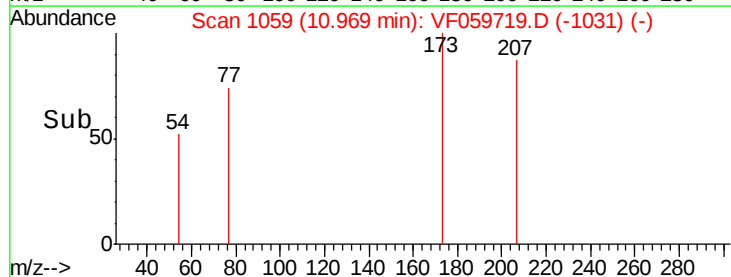
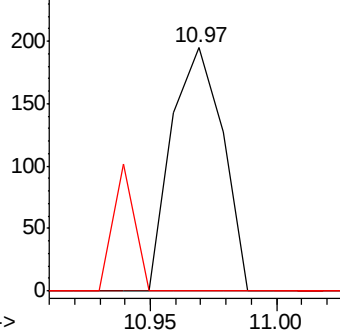


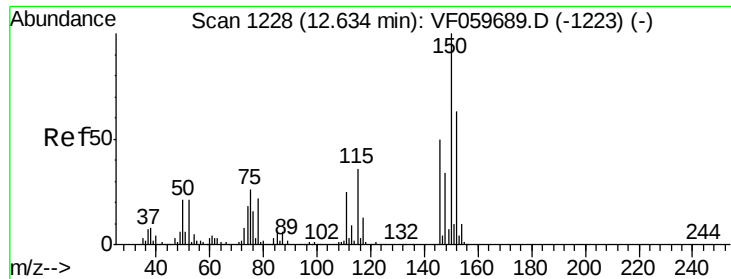
#71
Bromoform
Concen: 19.942 ug/l
RT: 10.97 min Scan# 1059
Delta R.T. 0.08 min
Lab File: VF059719.D
Acq: 31 Jul 2018 19:49

Tgt Ion:173 Resp: 275
Ion Ratio Lower Upper
173 100
175 0.0 23.4 70.0#
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(130-132)

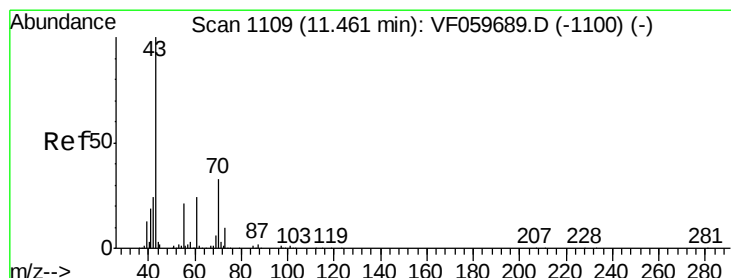
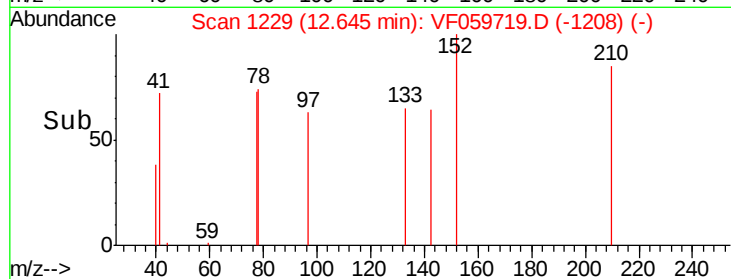
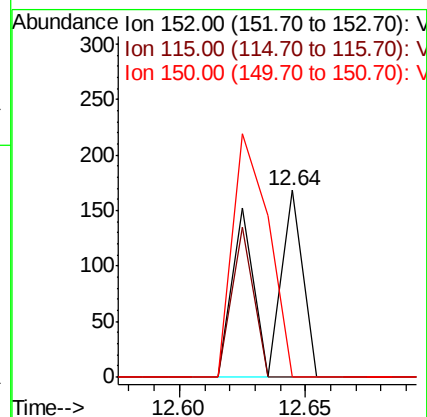
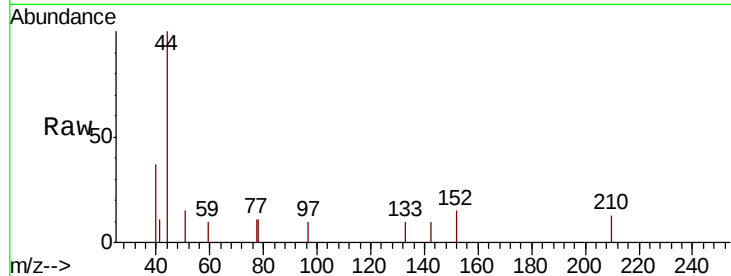
Tot Ion:152 Resp: 189

Ion Ratio Lower Upper

152 100

115 0.0 28.2 84.6#

150 0.0 0.0 316.2



#74

N-ethyl acetate

Concen: 25.570 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.05 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Tgt Ion: 43 Resp: 80

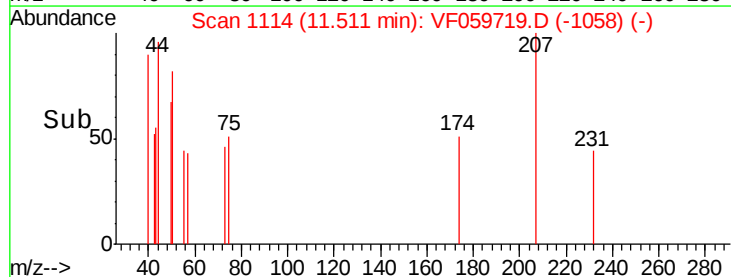
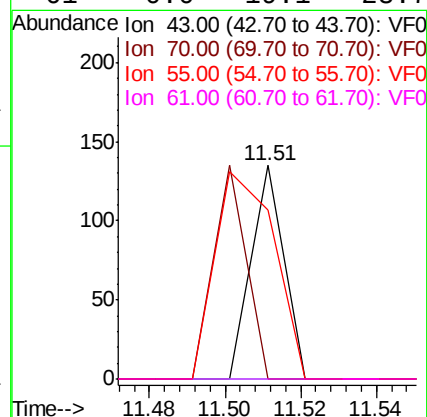
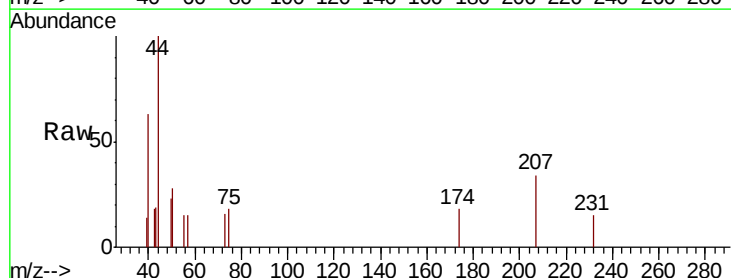
Ion Ratio Lower Upper

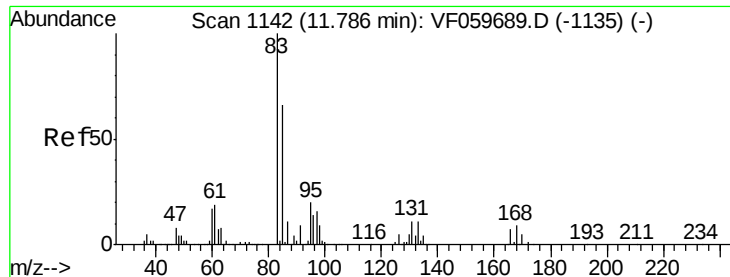
43 100

70 0.0 26.3 39.5#

55 79.3 16.6 25.0#

61 0.0 19.1 28.7#





#75

1,1,2,2-Tetrachloroethane

Concen: 26.131 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.02 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(130-132)

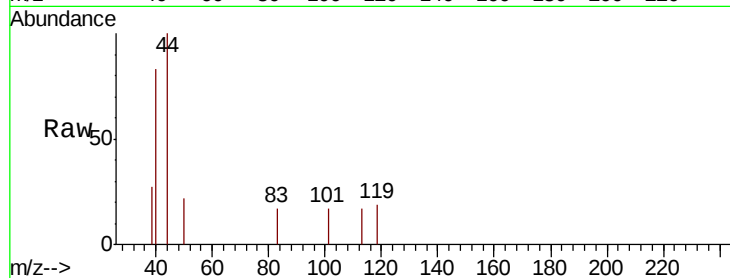
Tot Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.3#

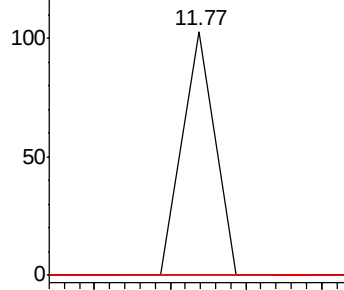
85 0.0 32.8 98.3#



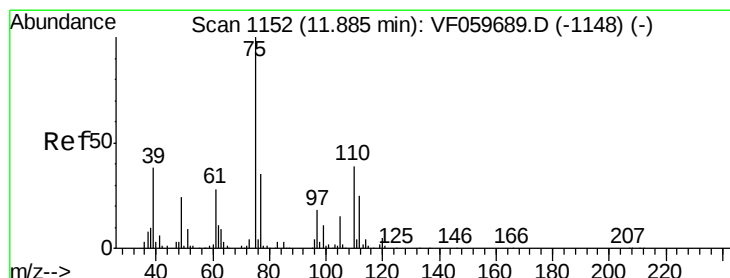
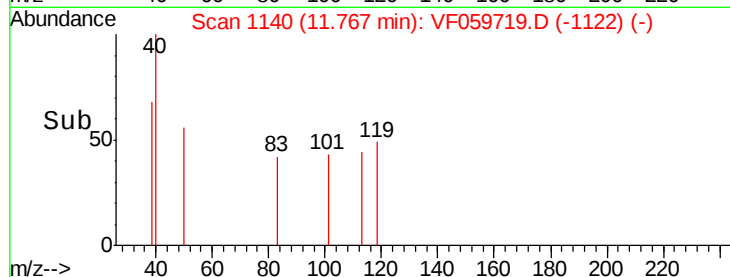
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



Time-->



#76

1,2,3-Trichloropropane

Concen: 33.249 ug/l

RT: 11.98 min Scan# 1162

Delta R.T. 0.10 min

Lab File: VF059719.D

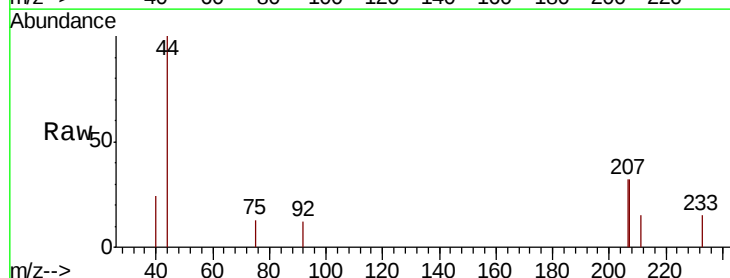
Acq: 31 Jul 2018 19:49

Tgt Ion: 75 Resp: 66

Ion Ratio Lower Upper

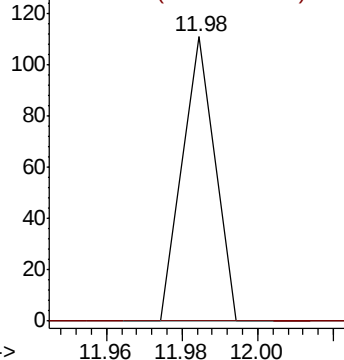
75 100

77 0.0 18.0 54.0#

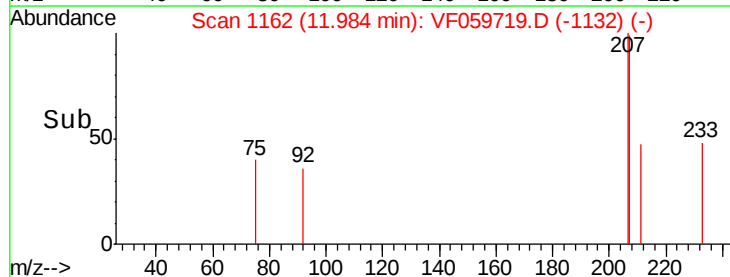


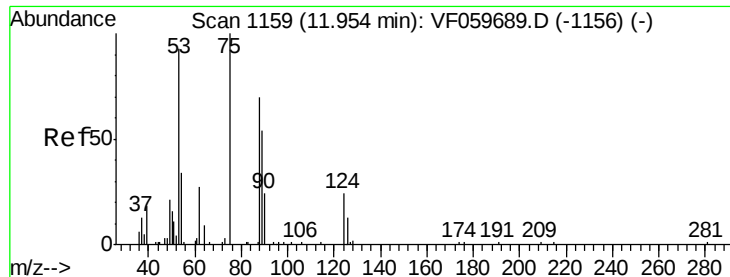
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 80.285 ug/l

RT: 11.98 min Scan# 1162

Delta R.T. 0.03 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(130-132)

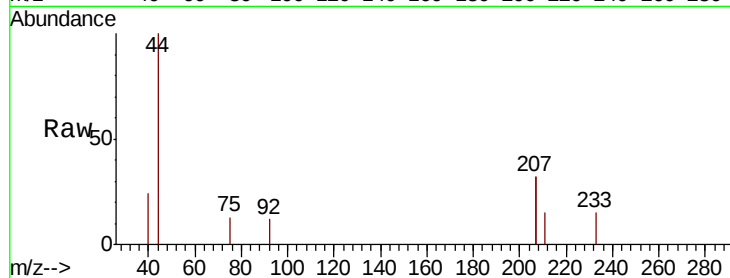
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

53 0.0 78.3 117.5#

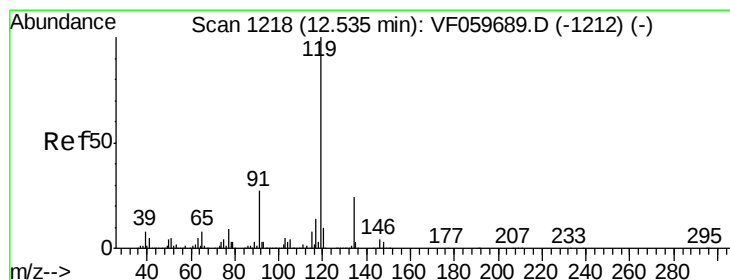
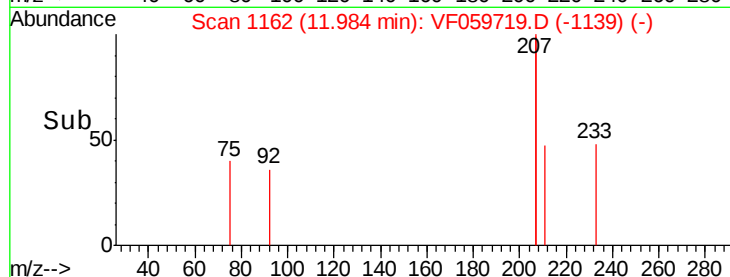
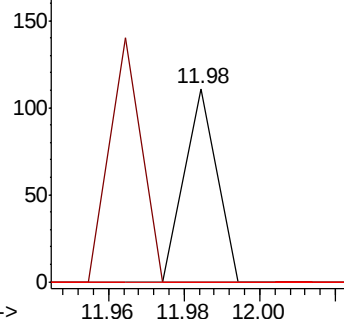
89 0.0 45.4 68.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#86

p-Isopropyltoluene

Concen: 1.350 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

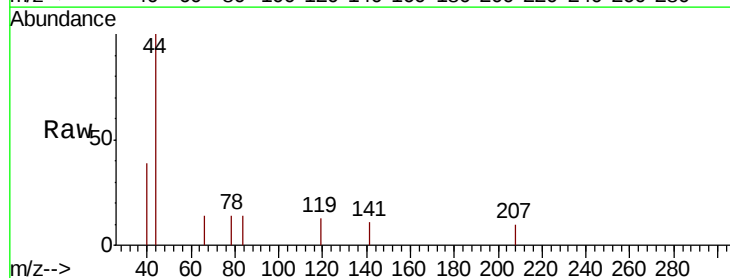
Tgt Ion: 119 Resp: 75

Ion Ratio Lower Upper

119 100

134 0.0 12.2 36.6#

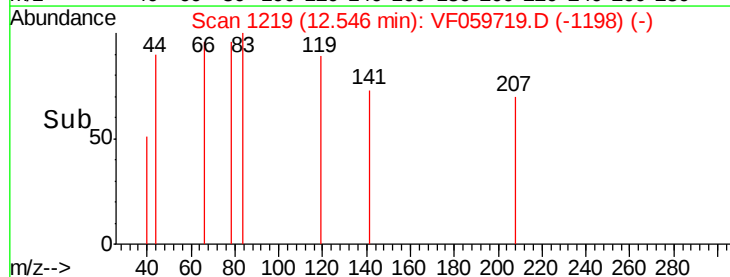
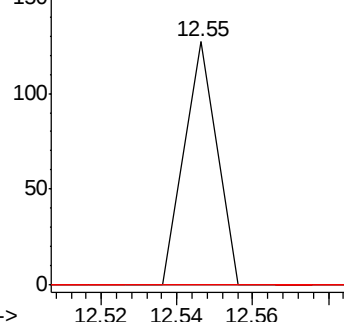
91 0.0 13.4 40.2#

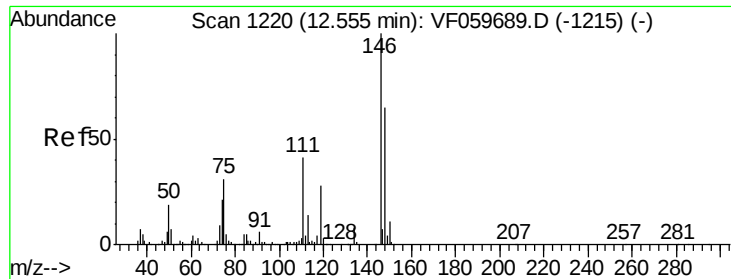


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 8.896 ug/l

RT: 12.40 min Scan# 1204

Delta R.T. -0.16 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(130-132)

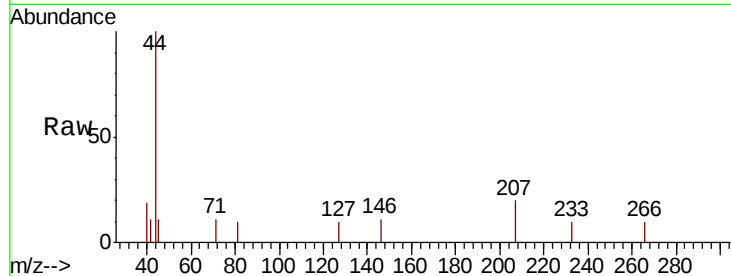
Tot Ion:146 Resp: 72

Ion Ratio Lower Upper

146 100

111 0.0 20.7 62.1#

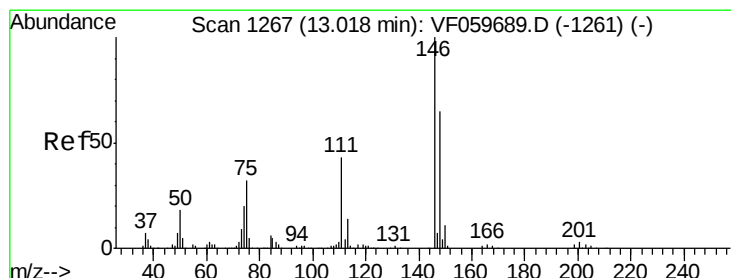
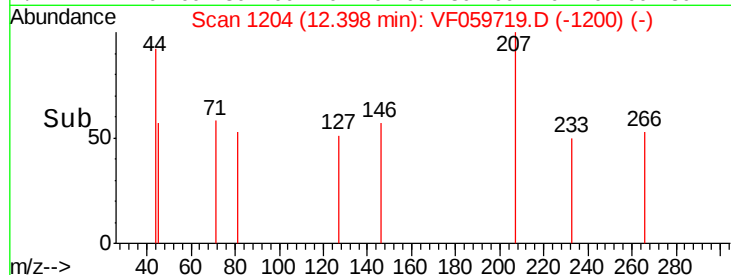
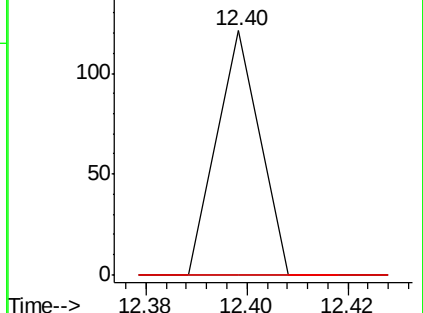
148 0.0 32.3 96.8#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#91

1,2-Dichlorobenzene

Concen: 12.166 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. -0.17 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

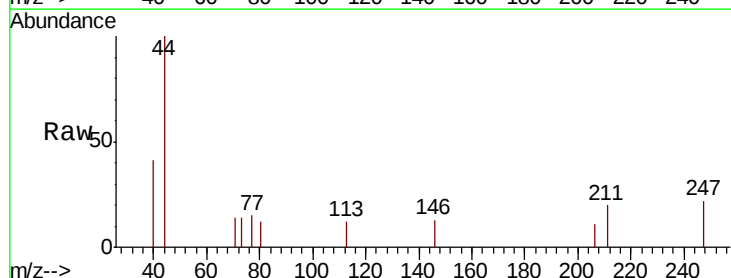
Tgt Ion:146 Resp: 80

Ion Ratio Lower Upper

146 100

111 0.0 21.6 65.0#

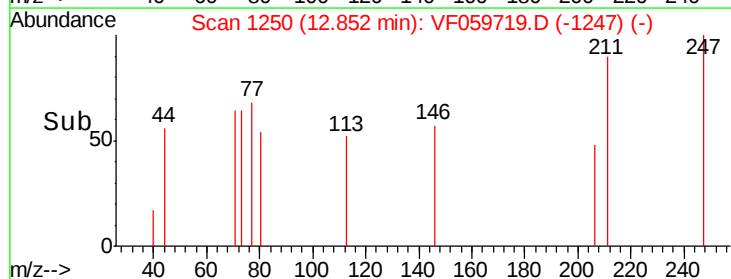
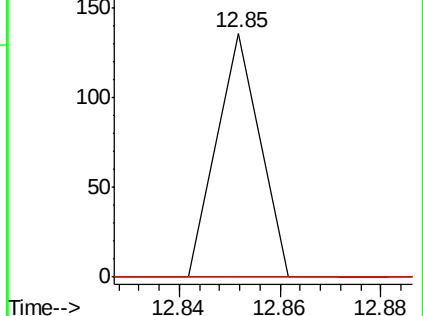
148 0.0 32.3 96.9#

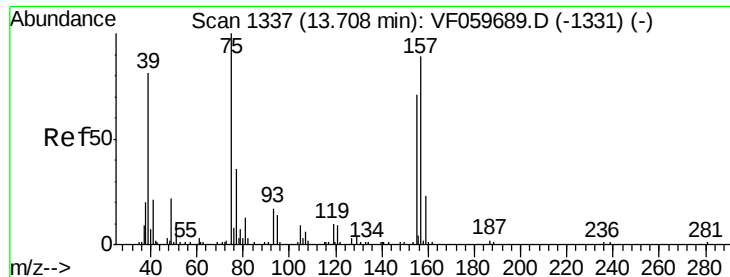


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 106.893 ug/l

RT: 13.62 min Scan# 1328

Delta R.T. -0.09 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(130-132)

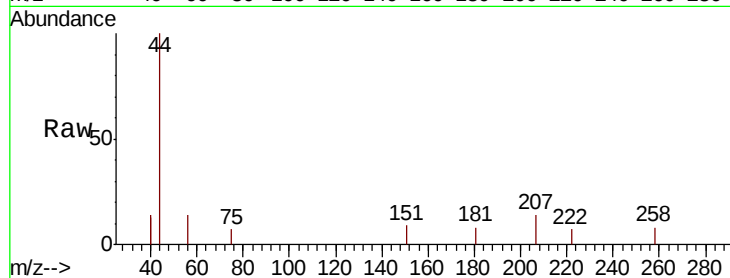
Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

155 0.0 35.4 106.2#

157 0.0 44.4 133.2#



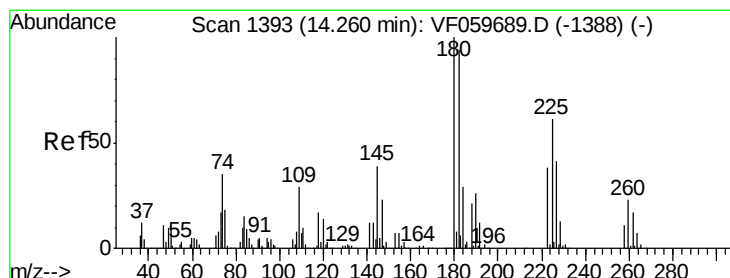
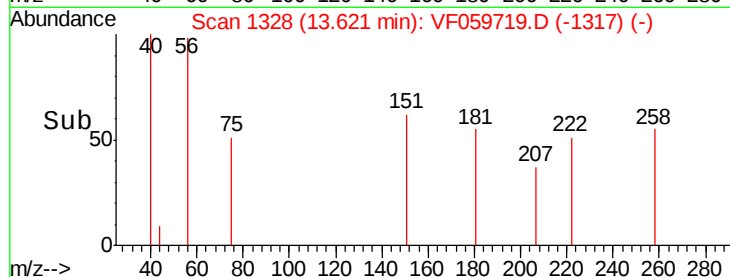
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

13.62

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 14.585 ug/l

RT: 14.21 min Scan# 1388

Delta R.T. -0.05 min

Lab File: VF059719.D

Acq: 31 Jul 2018 19:49

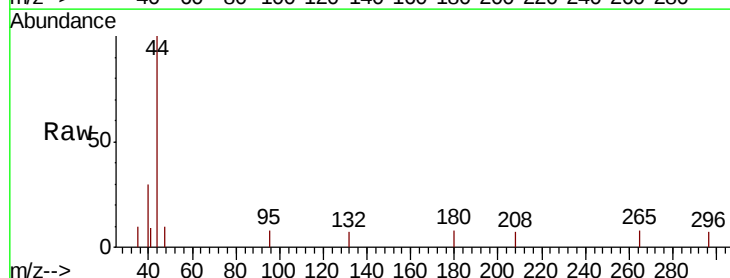
Tgt Ion:180 Resp: 74

Ion Ratio Lower Upper

180 100

182 0.0 47.2 141.6#

145 0.0 19.3 57.9#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

14.21

Time-->

