

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\
 Data File : VF061611.D
 Acq On : 12 Feb 2019 16:18
 Operator : VA/AP
 Sample : K1343-09
 Misc : 8.21g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-E

Quant Time: Feb 13 02:49:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	1268	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	1697	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	166	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	209	13.35	ug/l	0.00
Spiked Amount			Recovery	=	26.70%	
35) Dibromofluoromethane	4.11	113	303	22.63	ug/l	0.00
Spiked Amount			Recovery	=	45.26%	
50) Toluene-d8	7.55	98	1468	40.01	ug/l	0.00
Spiked Amount			Recovery	=	80.02%	
62) 4-Bromofluorobenzene	11.41	95	921	53.73	ug/l	0.00
Spiked Amount			Recovery	=	107.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	91	4.981	ug/l #	44
4) Vinyl Chloride	1.26	62	137	8.431	ug/l #	43
5) Bromomethane	1.34	94	567	53.507	ug/l #	44
6) Chloroethane	1.33	64	66	9.166	ug/l #	41
8) Diethyl Ether	1.59	74	99	24.457	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.91	101	81	5.336	ug/l #	20
11) Tert butyl alcohol	2.57	59	91	137.327	ug/l #	1
12) 1,1-Dichloroethene	1.77	96	65	5.764	ug/l #	1
13) Acrolein	1.88	56	162	282.428	ug/l	87
14) Allyl chloride	2.06	41	1104	82.191	ug/l #	35
15) Acrylonitrile	2.95	53	218	128.433	ug/l #	69
16) Acetone	2.30	43	559	177.992	ug/l	97
17) Carbon Disulfide	1.87	76	66	1.877	ug/l #	69
18) Methyl Acetate	2.35	43	796	127.804	ug/l #	61
19) Methyl tert-butyl Ether	2.41	73	73	2.888	ug/l #	59
20) Methylene Chloride	2.14	84	81	6.053	ug/l #	1
21) trans-1,2-Dichloroethene	2.32	96	168	13.540	ug/l #	1
22) Diisopropyl ether	2.78	45	1262	31.446	ug/l #	63
23) Vinyl Acetate	3.17	43	1011	59.735	ug/l #	78
24) 1,1-Dichloroethane	2.88	63	78	3.097	ug/l #	85
25) 2-Butanone	4.34	43	422	80.801	ug/l #	57
26) 2,2-Dichloropropane	3.70	77	60	3.877	ug/l #	61
28) Bromochloromethane	3.83	49	62	5.476	ug/l #	8
29) Tetrahydrofuran	4.07	42	62	27.570	ug/l #	38
31) Cyclohexane	3.70	56	68	2.703	ug/l #	13
37) Ethyl Acetate	4.10	43	85	10.807	ug/l #	5
39) Methylcyclohexane	5.54	83	76	3.564	ug/l #	15
40) Benzene	4.54	78	60	1.370	ug/l #	52
41) Methacrylonitrile	4.69	41	252	60.214	ug/l #	29
43) Isopropyl Acetate	6.92	43	122	12.359	ug/l #	51
48) Methyl methacrylate	6.70	41	137	20.668	ug/l #	19
51) 4-Methyl-2-Pentanone	8.25	43	89	12.264	ug/l #	39
53) t-1,3-Dichloropropene	8.10	75	60	3.997	ug/l #	44
59) 2-Hexanone	9.46	43	203	40.115	ug/l #	26

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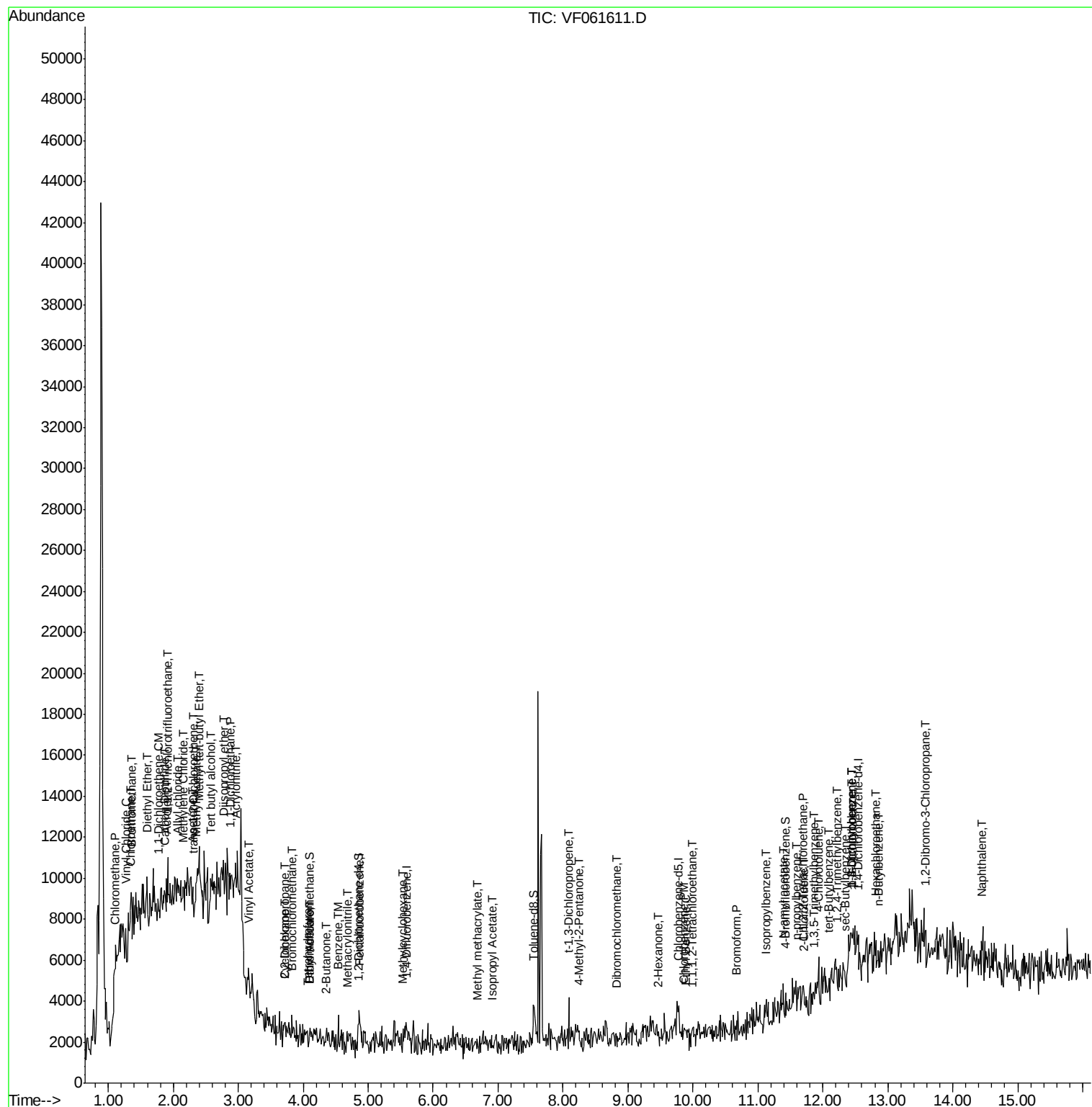
60) Dibromochloromethane	8.82	129	72	6.015	ug/l #	10
65) Chlorobenzene	9.86	112	73	3.593	ug/l #	43
66) 1,1,1,2-Tetrachloroethane	9.97	131	62	7.661	ug/l #	8
67) Ethyl Benzene	9.89	91	70	1.886	ug/l #	46
71) Bromoform	10.67	173	80	22.001	ug/l #	29
73) Isopropylbenzene	11.13	105	81	6.000	ug/l #	50
74) N-amyl acetate	11.38	43	253	79.248	ug/l #	8
75) 1,1,2,2-Tetrachloroethane	11.69	83	467	194.164	ug/l #	24
78) n-propylbenzene	11.60	91	73	4.181	ug/l #	54
79) 2-Chlorotoluene	11.72	91	329	35.121	ug/l #	45
80) 1,3,5-Trimethylbenzene	11.86	105	116	10.647	ug/l #	28
82) 4-Chlorotoluene	11.94	91	102	10.790	ug/l #	43
83) tert-Butylbenzene	12.08	119	61	5.409	ug/l #	28
84) 1,2,4-Trimethylbenzene	12.21	105	70	6.237	ug/l #	28
85) sec-Butylbenzene	12.35	105	82	5.354	ug/l #	56
86) p-Isopropyltoluene	12.43	119	78	6.204	ug/l #	50
87) 1,3-Dichlorobenzene	12.43	146	69	11.483	ug/l #	24
88) 1,4-Dichlorobenzene	12.43	146	69	12.806	ug/l #	24
89) n-Butylbenzene	12.84	91	346	26.687	ug/l #	27
90) Hexachloroethane	12.81	117	70	23.621	ug/l #	22
92) 1,2-Dibromo-3-Chloropropan	13.57	75	66	154.710	ug/l #	1
95) Naphthalene	14.43	128	82	11.551	ug/l #	71

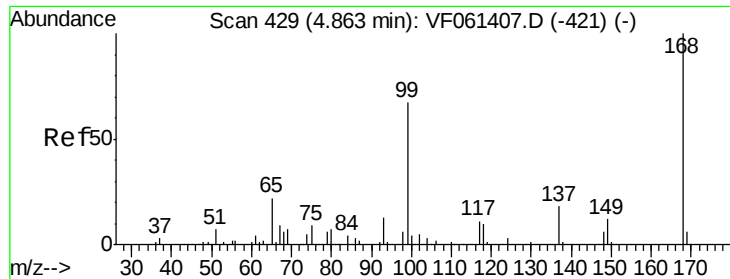
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.00 min

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Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

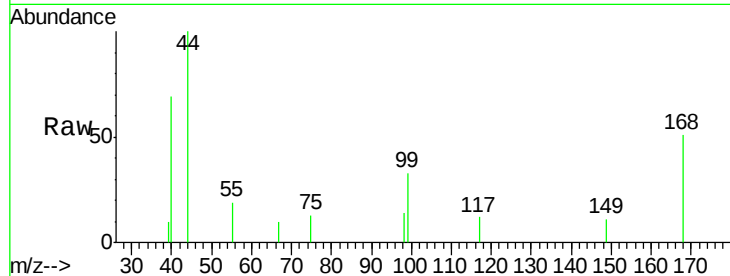
JC-02-021119-E

Tot Ion:168 Resp: 1268

Ion Ratio Lower Upper

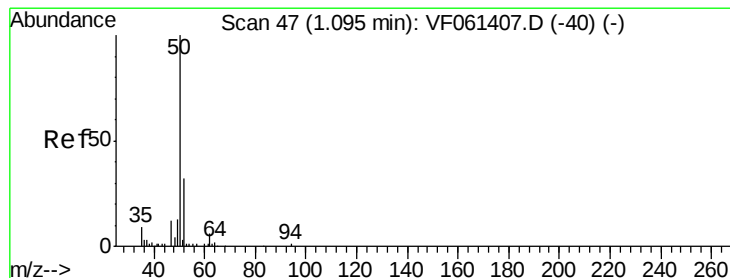
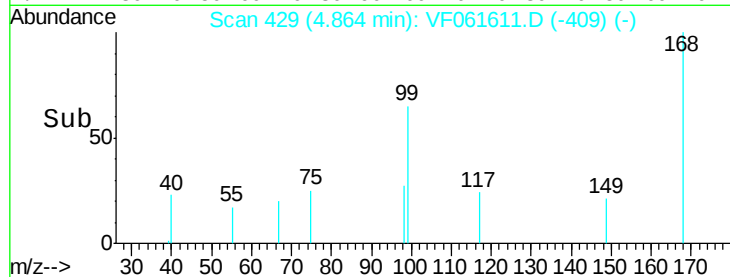
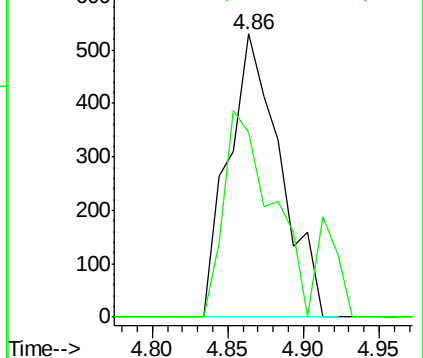
168 100

99 65.1 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 4.981 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061611.D

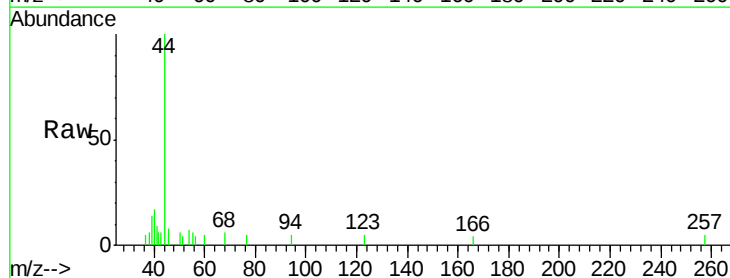
Acq: 12 Feb 2019 16:18

Tgt Ion: 50 Resp: 91

Ion Ratio Lower Upper

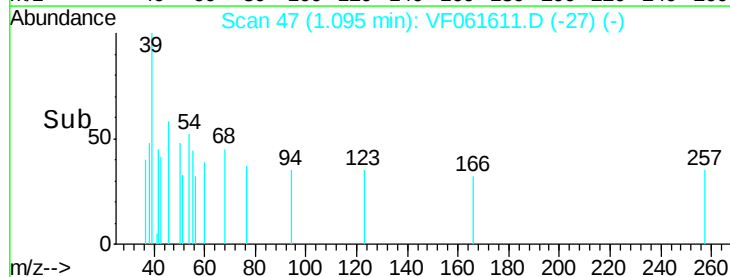
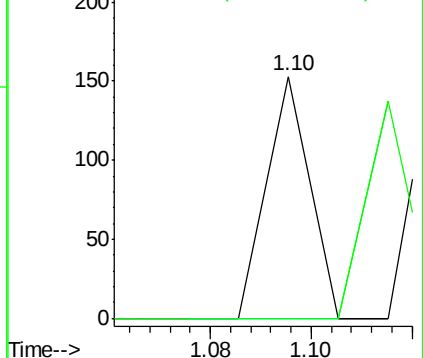
50 100

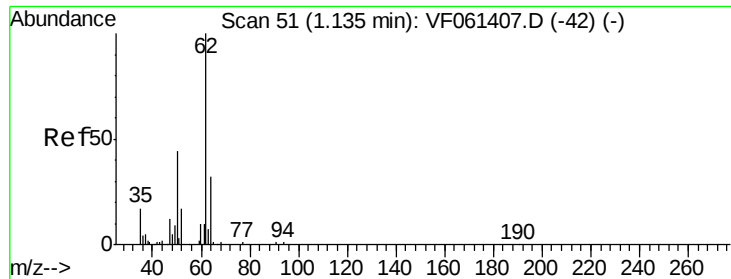
52 0.0 24.6 36.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#4

Vinyl Chloride

Concen: 8.431 ug/l

RT: 1.26 min Scan# 64

Delta R.T. 0.13 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

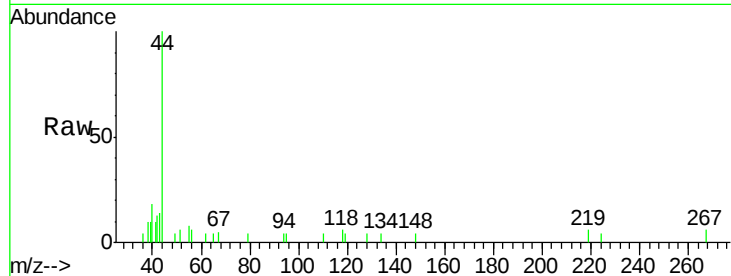
JC-02-021119-E

Tot Ion: 62 Resp: 137

Ion Ratio Lower Upper

62 100

64 0.0 25.6 38.4#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

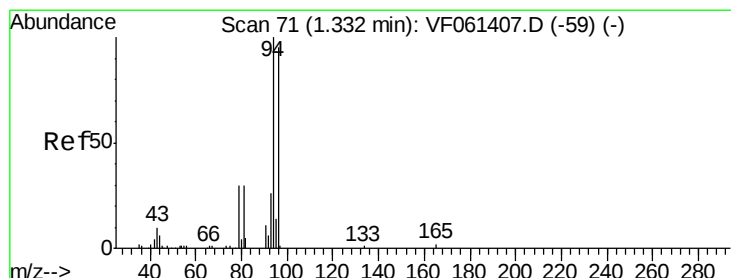
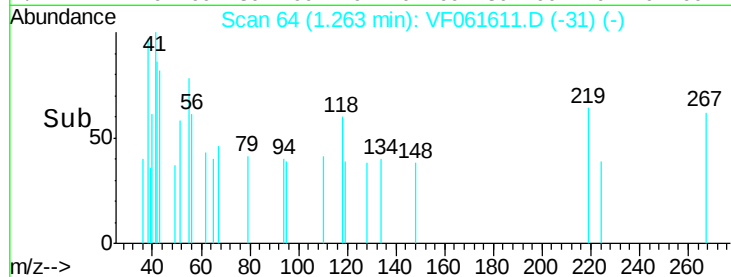
1.26

100

50

0

Time-->



#5

Bromomethane

Concen: 53.507 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.01 min

Lab File: VF061611.D

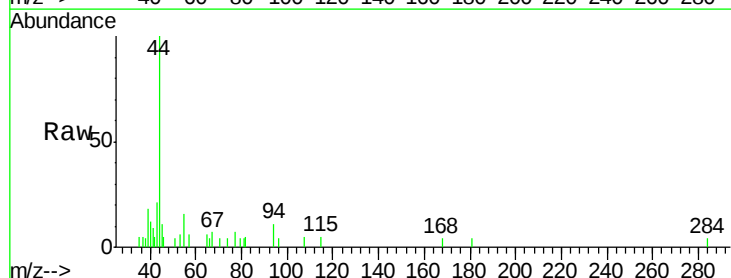
Acq: 12 Feb 2019 16:18

Tgt Ion: 94 Resp: 567

Ion Ratio Lower Upper

94 100

96 40.6 76.0 114.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.34

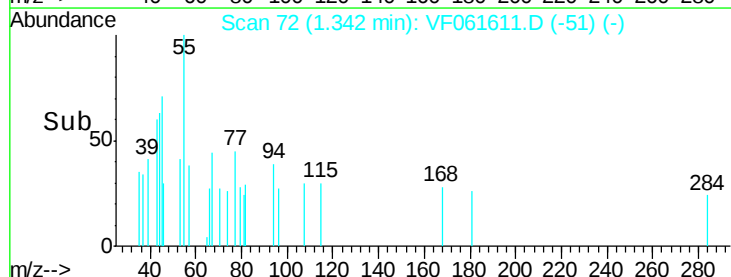
300

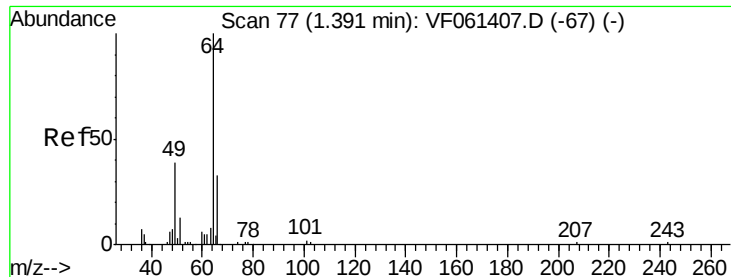
200

100

0

Time-->





#6

Chloroethane

Concen: 9.166 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.06 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

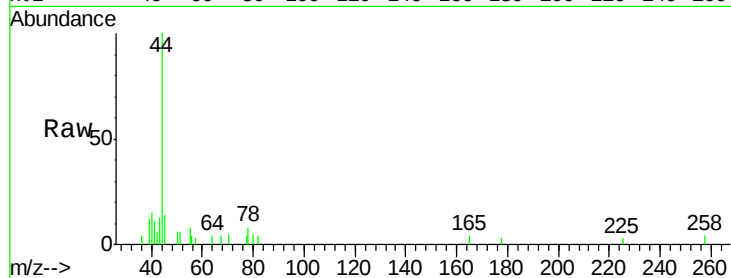
JC-02-021119-E

Tot Ion: 64 Resp: 66

Ion Ratio Lower Upper

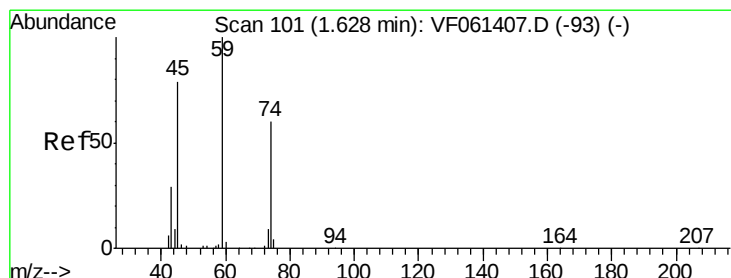
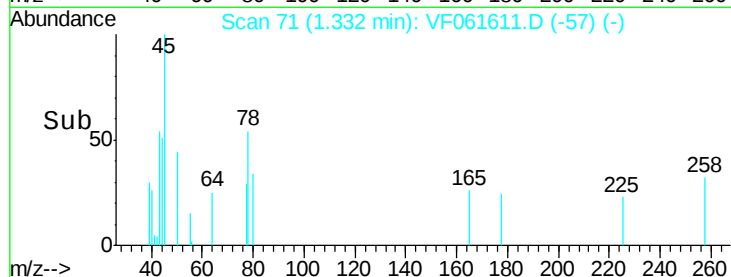
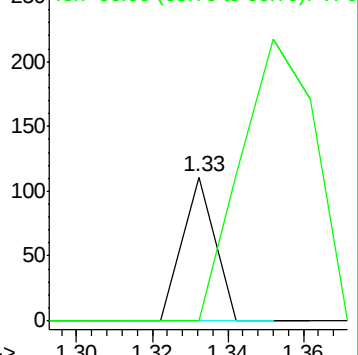
64 100

66 0.0 26.6 40.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 24.457 ug/l

RT: 1.59 min Scan# 97

Delta R.T. -0.04 min

Lab File: VF061611.D

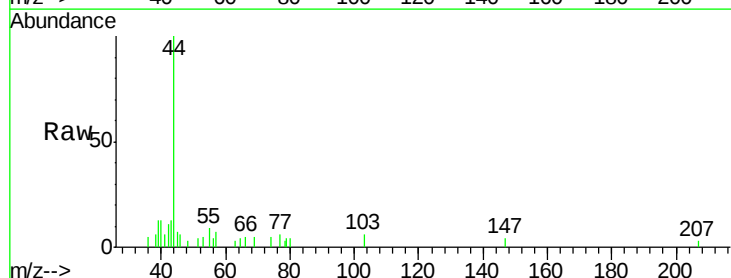
Acq: 12 Feb 2019 16:18

Tgt Ion: 74 Resp: 99

Ion Ratio Lower Upper

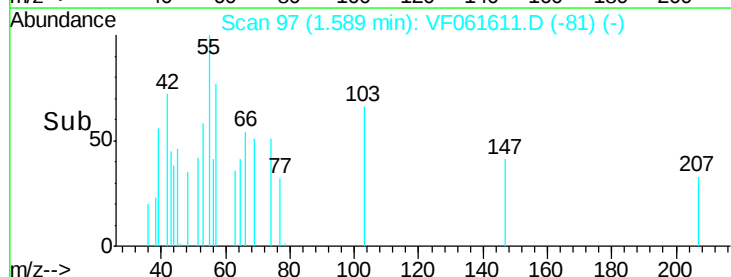
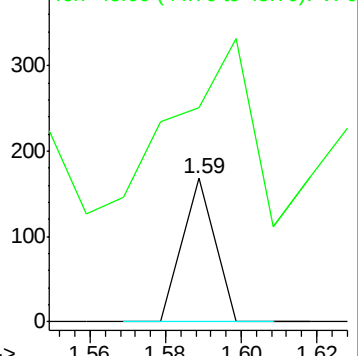
74 100

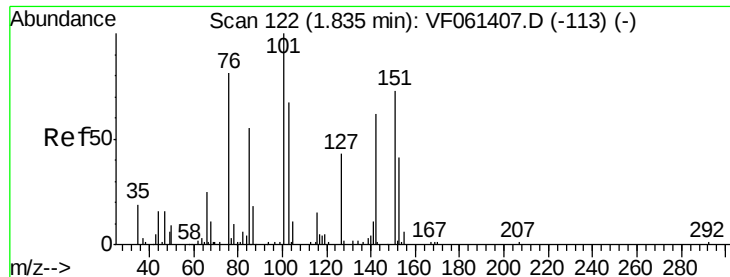
45 149.4 65.8 197.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.336 ug/l

RT: 1.91 min Scan# 130

Delta R.T. 0.08 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

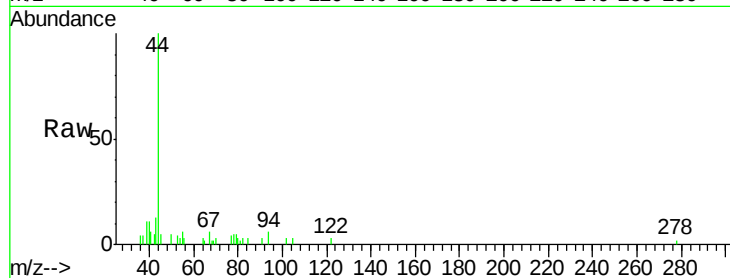
Tot Ion:101 Resp: 81

Ion Ratio Lower Upper

101 100

85 0.0 41.9 62.9#

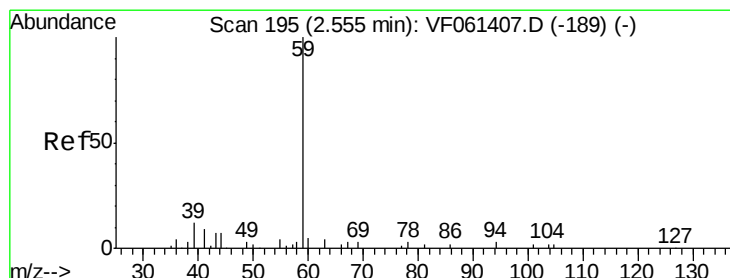
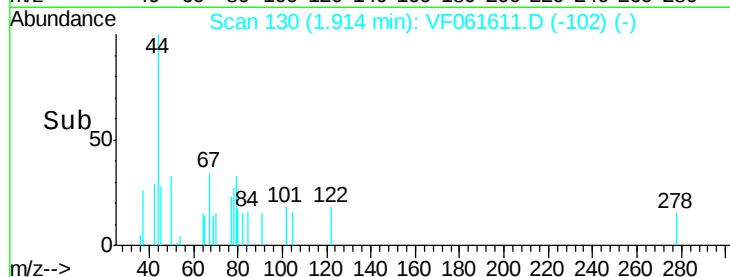
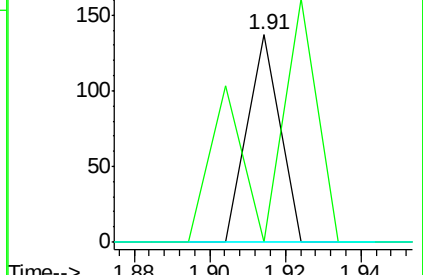
151 0.0 55.1 82.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#11

Tert butyl alcohol

Concen: 137.327 ug/l

RT: 2.57 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF061611.D

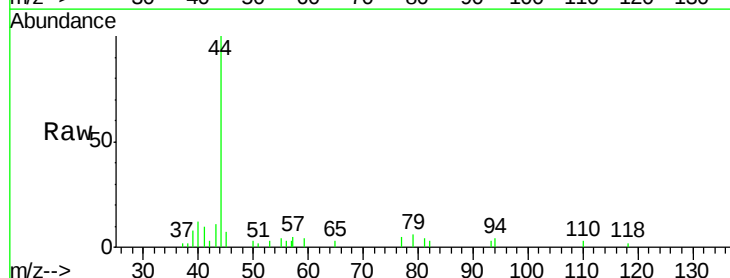
Acq: 12 Feb 2019 16:18

Tgt Ion: 59 Resp: 91

Ion Ratio Lower Upper

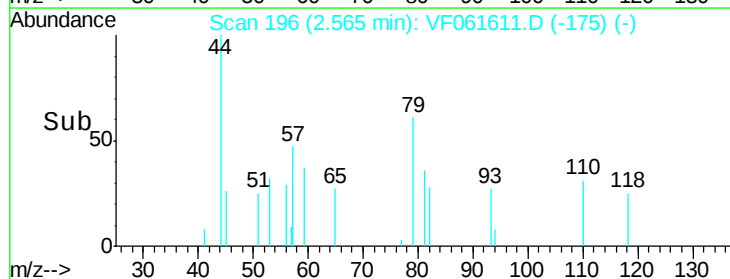
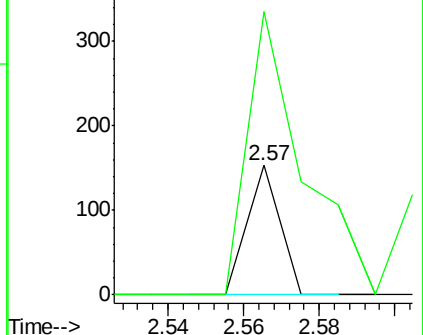
59 100

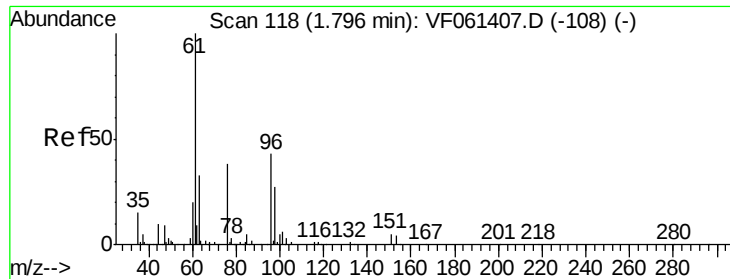
57 219.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

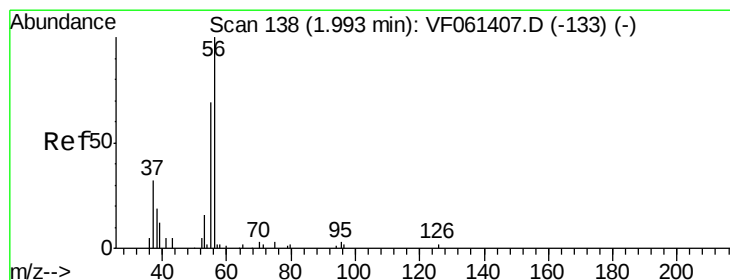
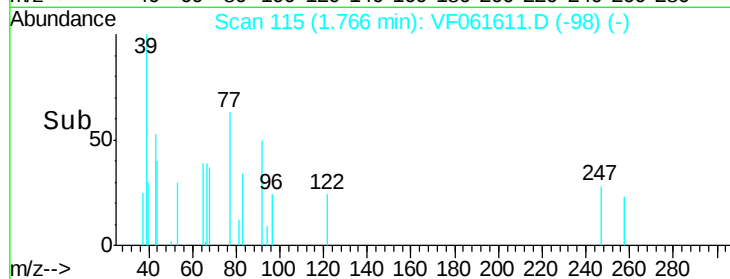
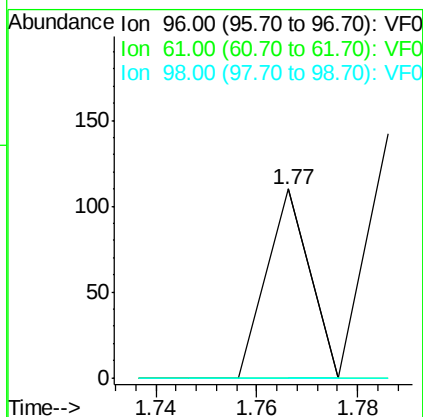
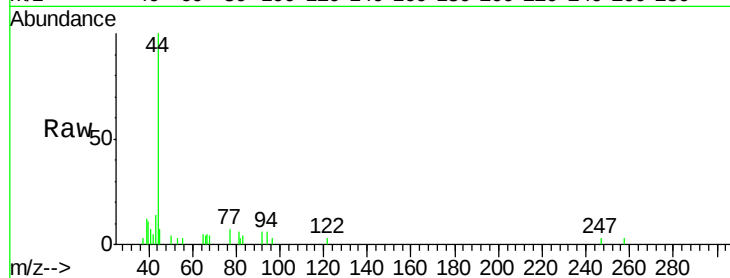




#12
 1,1-Dichloroethene
 Concen: 5.764 ug/l
 RT: 1.77 min Scan# 115
 Delta R.T. -0.03 min
 Lab File: VF061611.D
 Acq: 12 Feb 2019 16:18

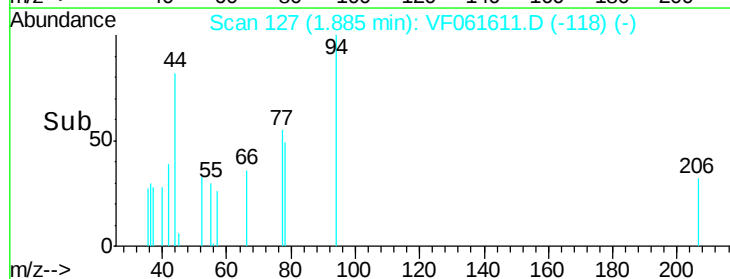
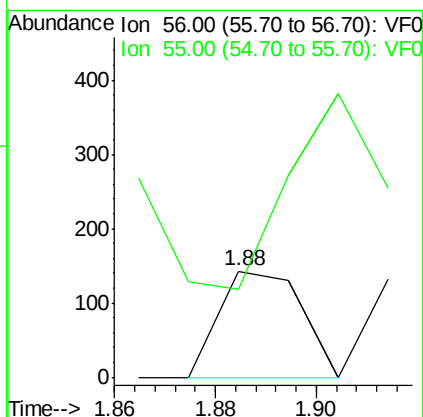
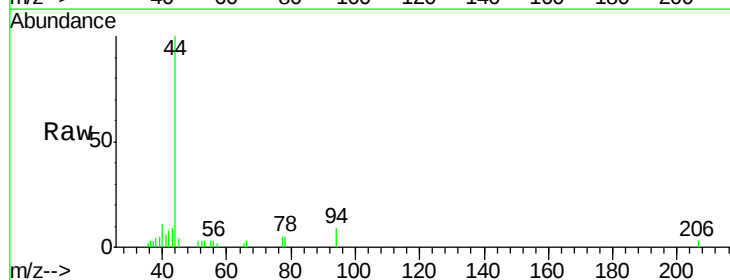
Instrument :
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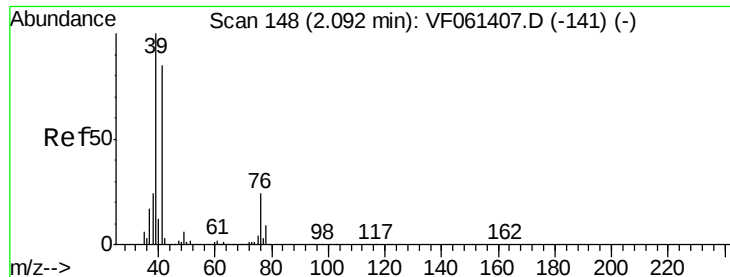
Tot Ion: 96 Resp: 65
 Ion Ratio Lower Upper
 96 100
 61 0.0 186.9 280.3#
 98 0.0 53.0 79.4#



#13
 Acrolein
 Concen: 282.428 ug/l
 RT: 1.88 min Scan# 127
 Delta R.T. -0.11 min
 Lab File: VF061611.D
 Acq: 12 Feb 2019 16:18

Tgt Ion: 56 Resp: 162
 Ion Ratio Lower Upper
 56 100
 55 82.5 57.5 86.3





#14

Allvl chloride

Concen: 82.191 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.03 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

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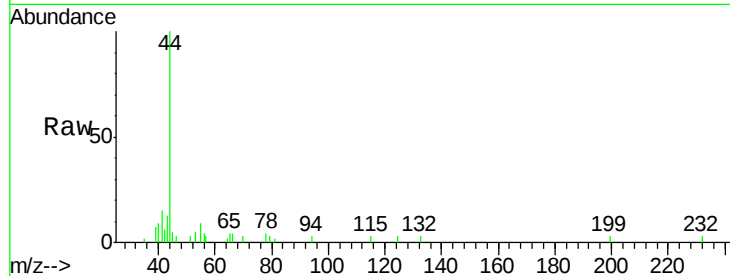
Tot Ion: 41 Resp: 1104

Ion Ratio Lower Upper

41 100

39 44.3 94.6 141.8#

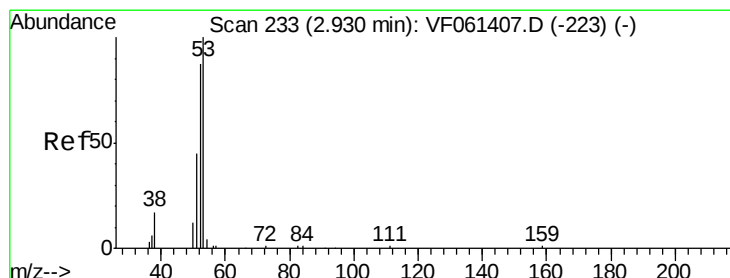
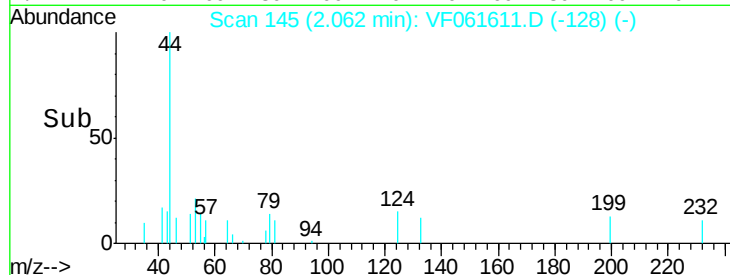
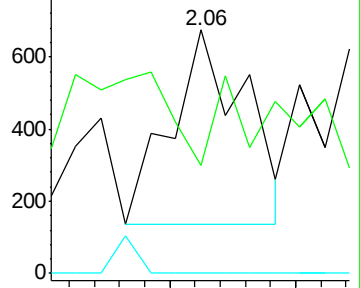
76 0.0 25.9 38.9#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



#15

Acrylonitrile

Concen: 128.433 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.02 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

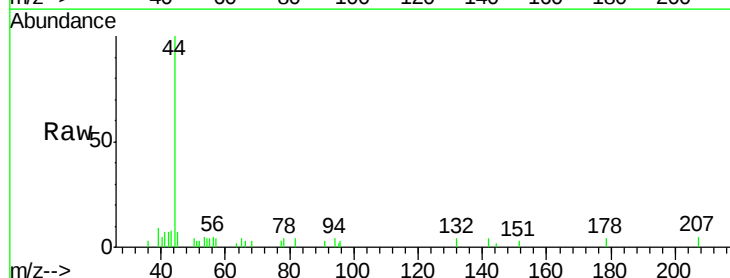
Tgt Ion: 53 Resp: 218

Ion Ratio Lower Upper

53 100

52 52.6 69.6 104.4#

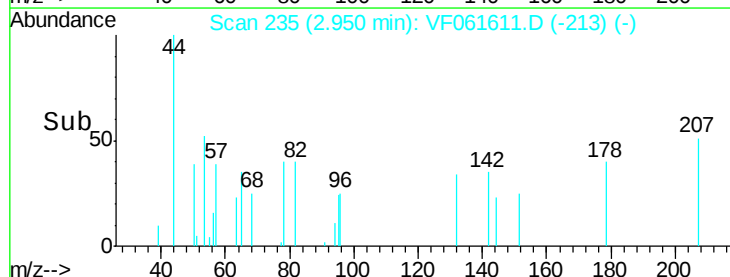
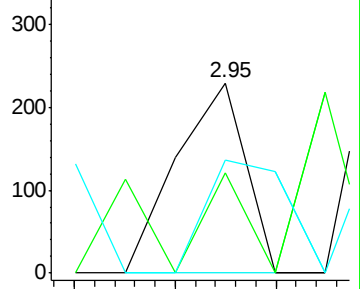
51 59.1 36.8 55.2#

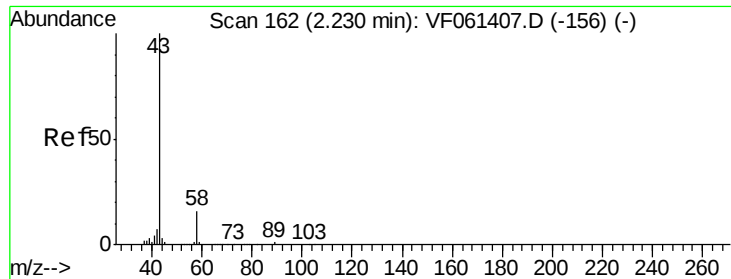


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

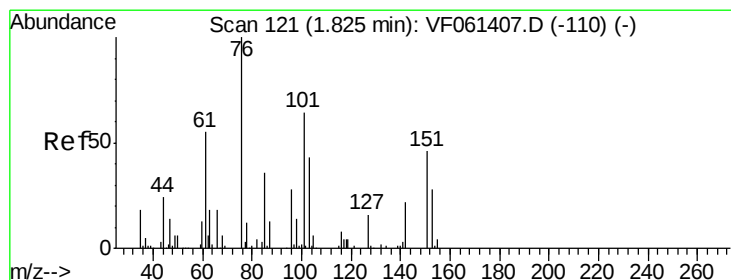
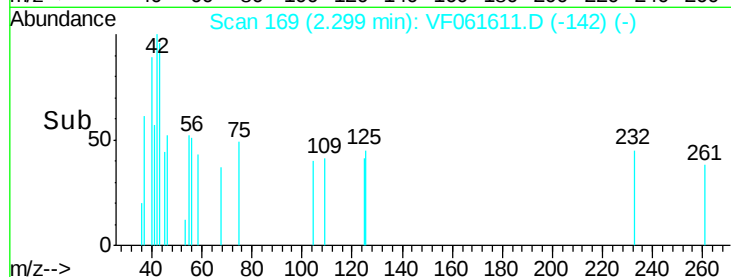
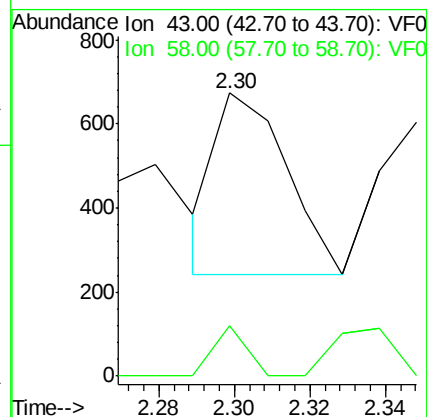
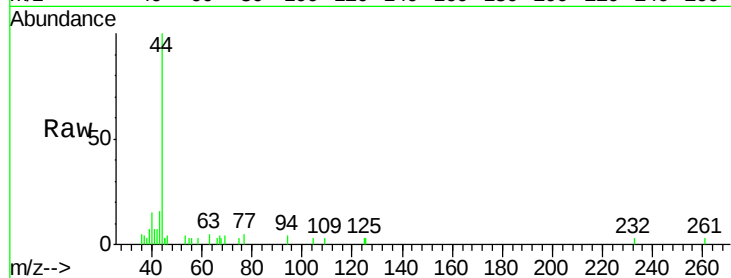




#16
Acetone
Concen: 177.992 ug/l
RT: 2.30 min Scan# 169
Delta R.T. 0.07 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

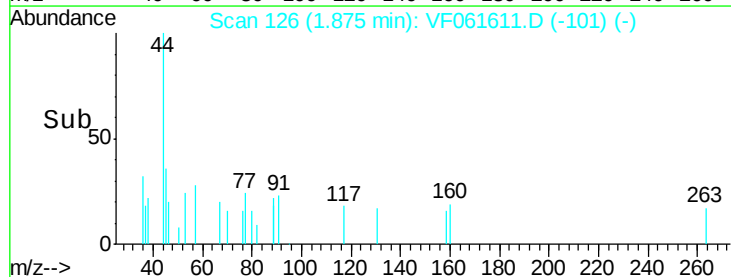
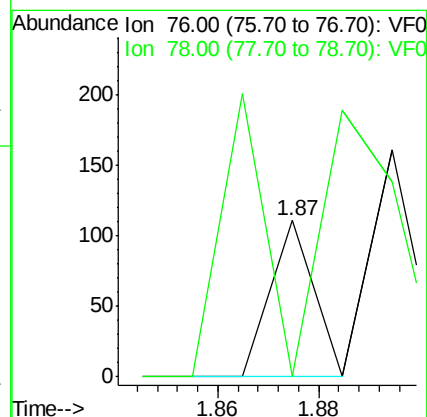
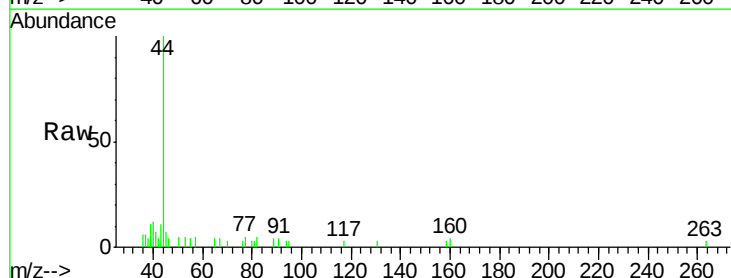
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-E

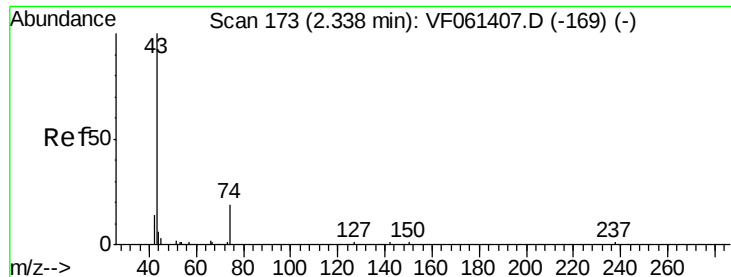
Tot Ion: 43 Resp: 559
Ion Ratio Lower Upper
43 100
58 17.7 13.3 19.9



#17
Carbon Disulfide
Concen: 1.877 ug/l
RT: 1.87 min Scan# 126
Delta R.T. 0.05 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

Tgt Ion: 76 Resp: 66
Ion Ratio Lower Upper
76 100
78 0.0 9.6 14.4#

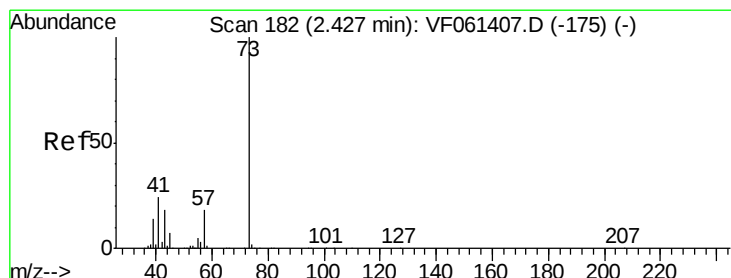
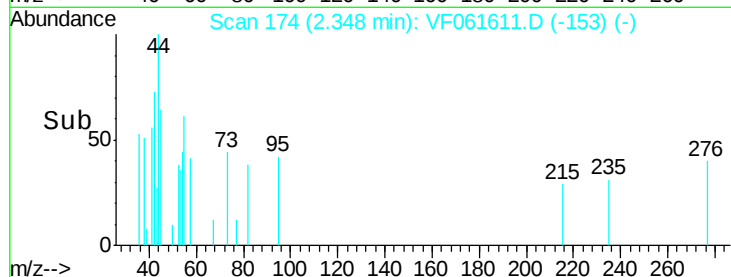
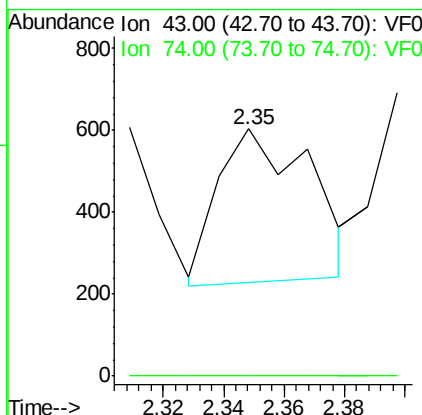
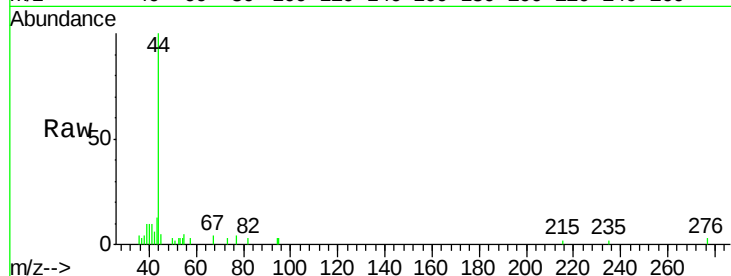




#18
Methyl Acetate
Concen: 127.804 ug/l
RT: 2.35 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

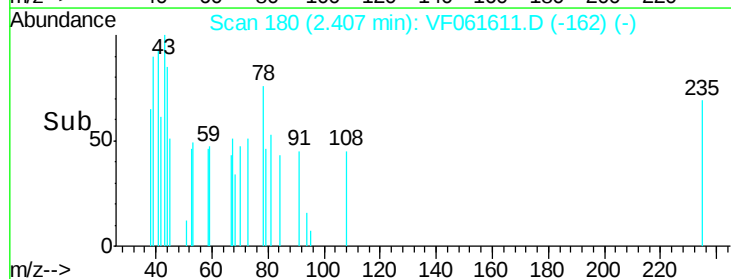
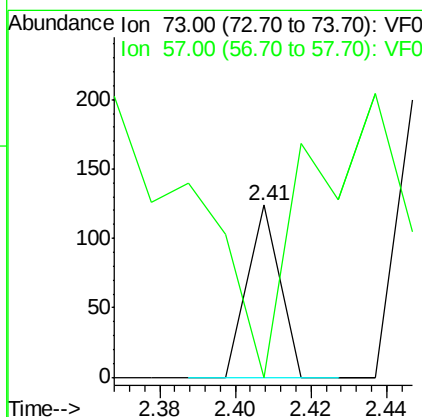
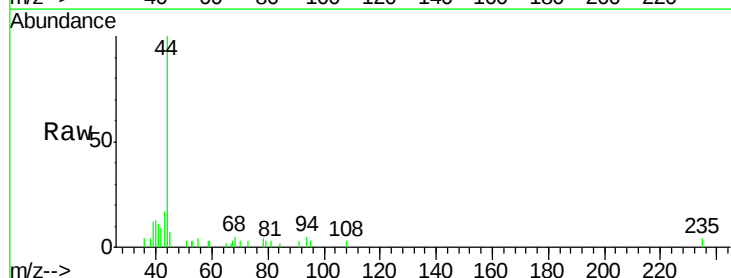
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-E

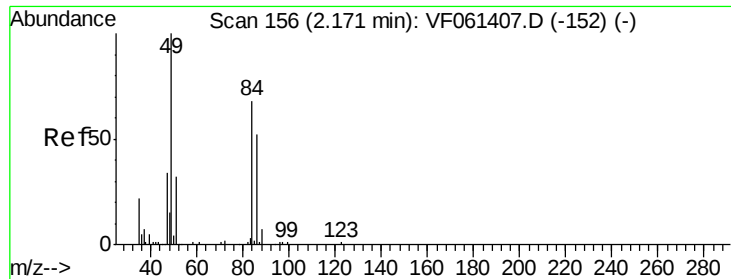
Tot Ion: 43 Resp: 796
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#19
Methyl tert-butyl Ether
Concen: 2.888 ug/l
RT: 2.41 min Scan# 180
Delta R.T. -0.02 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

Tgt Ion: 73 Resp: 73
Ion Ratio Lower Upper
73 100
57 0.0 14.8 22.2#





#20

Methvlene Chloride

Concen: 6.053 ug/l

RT: 2.14 min Scan# 153

Delta R.T. -0.03 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

Tot Ion: 84 Resp: 81

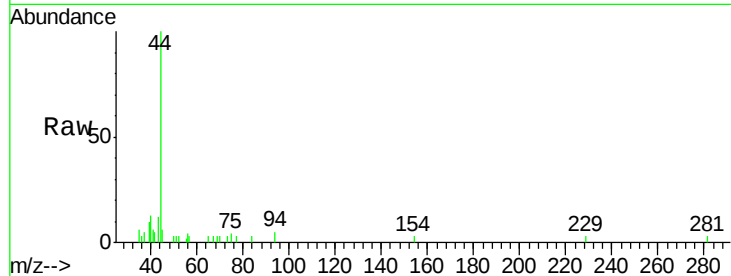
Ion Ratio Lower Upper

84 100

49 0.0 120.0 180.0#

51 84.7 38.6 58.0#

86 0.0 61.0 91.6#



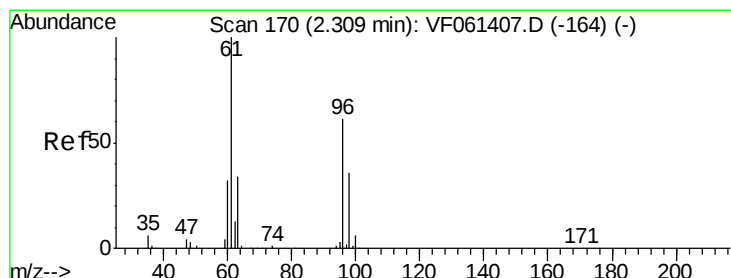
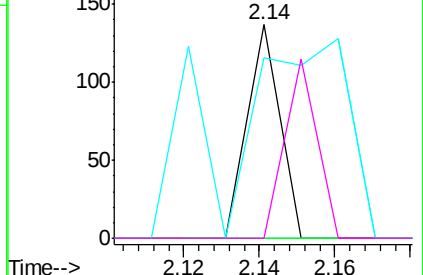
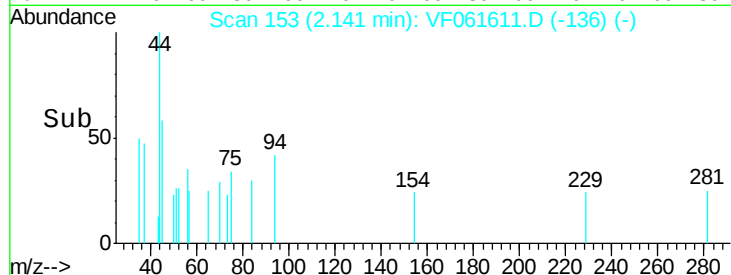
Abundance Ion 84.00 (83.70 to 84.70): VF0

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

Time-->



#21

trans-1,2-Dichloroethene

Concen: 13.540 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

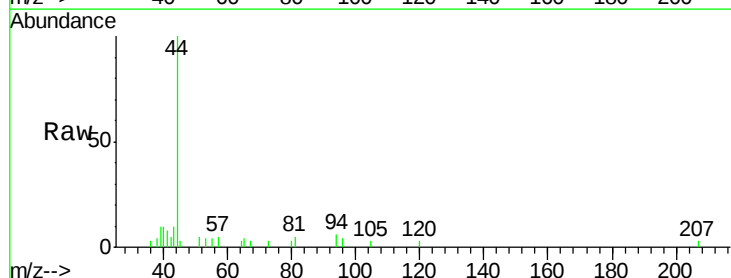
Tgt Ion: 96 Resp: 168

Ion Ratio Lower Upper

96 100

61 0.0 131.8 197.8#

98 0.0 47.4 71.0#

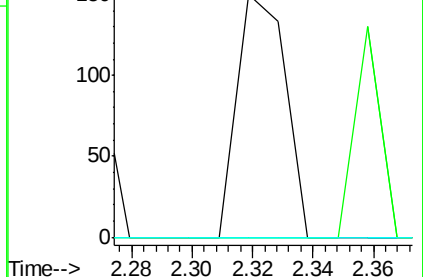
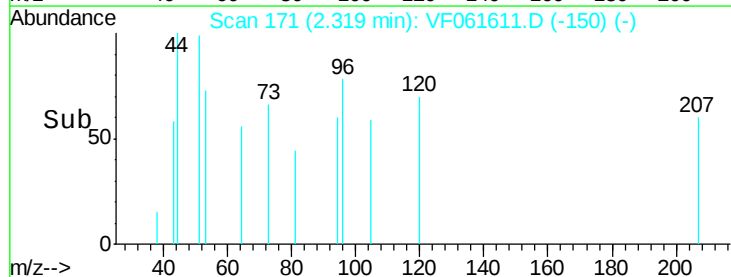


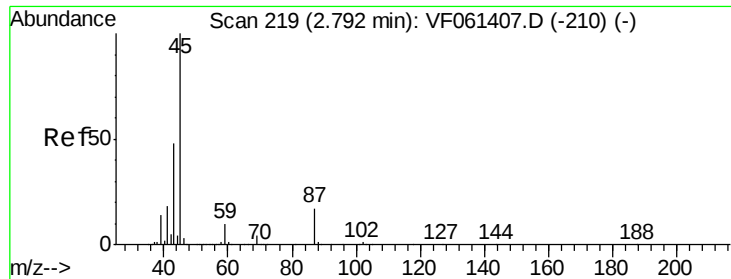
Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Time-->





#22

Diisopropyl ether

Concen: 31.446 ug/l

RT: 2.78 min Scan# 218

Delta R.T. -0.01 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

Tot Ion: 45 Resp: 1262

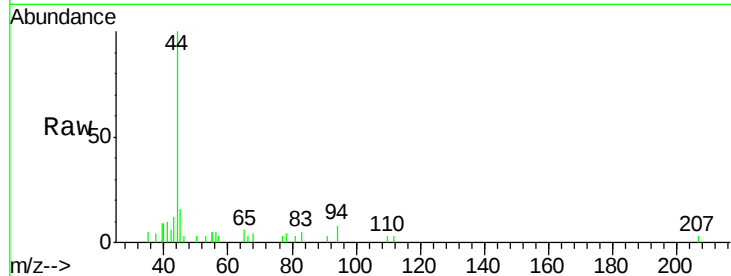
Ion Ratio Lower Upper

45 100

43 74.8 39.0 58.6#

87 0.0 13.9 20.9#

59 0.0 7.8 11.6#

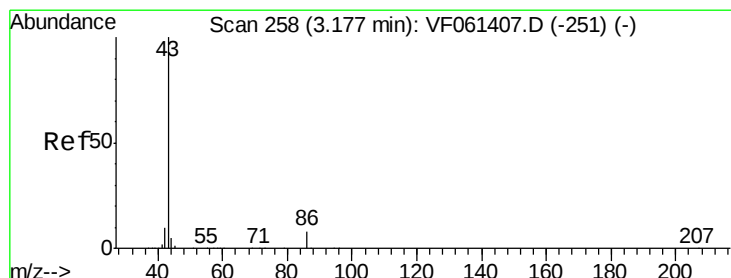
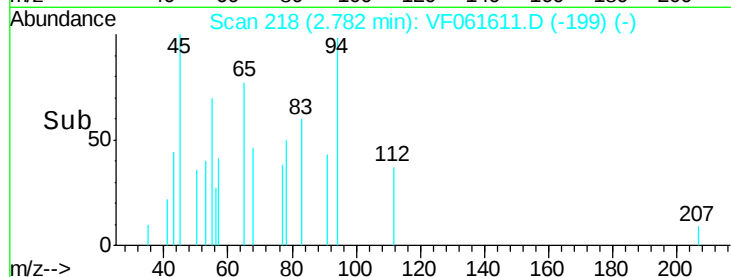
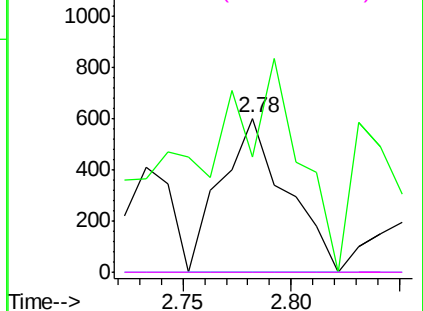


Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0



#23

Vinyl Acetate

Concen: 59.735 ug/l

RT: 3.17 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF061611.D

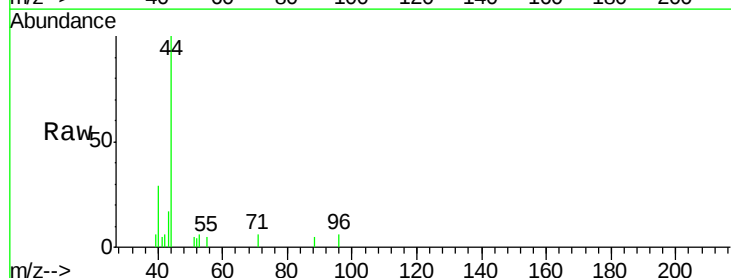
Acq: 12 Feb 2019 16:18

Tgt Ion: 43 Resp: 1011

Ion Ratio Lower Upper

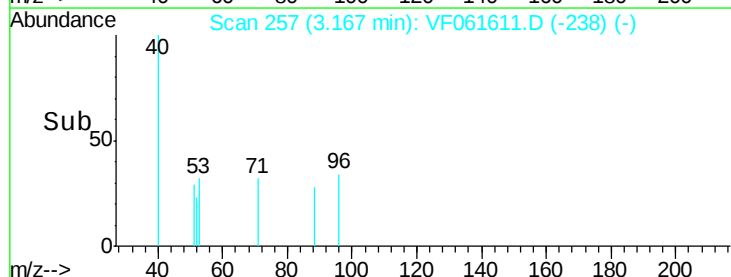
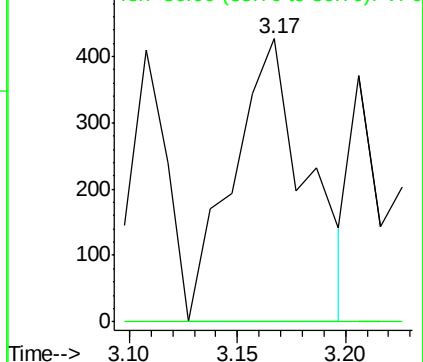
43 100

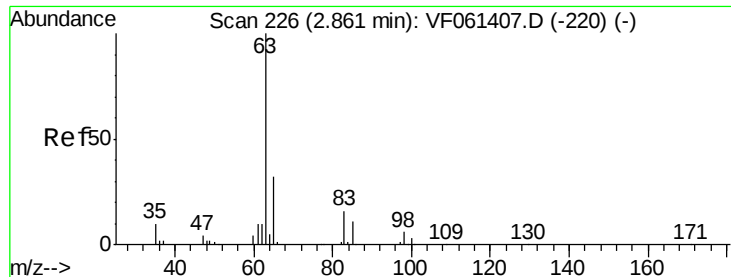
86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 3.097 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.02 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

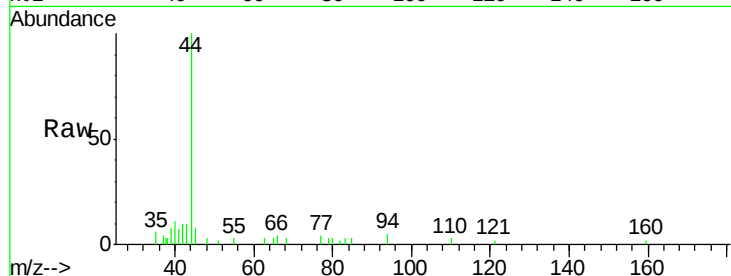
Tot Ion: 63 Resp: 78

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

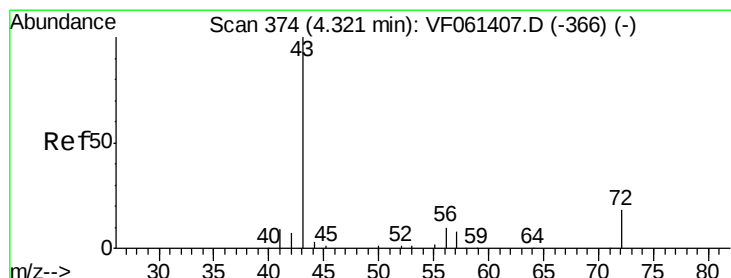
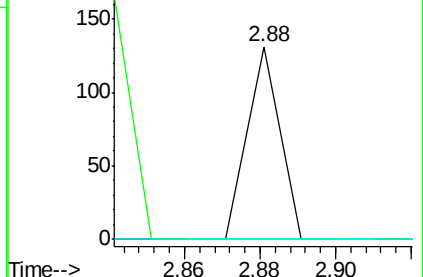
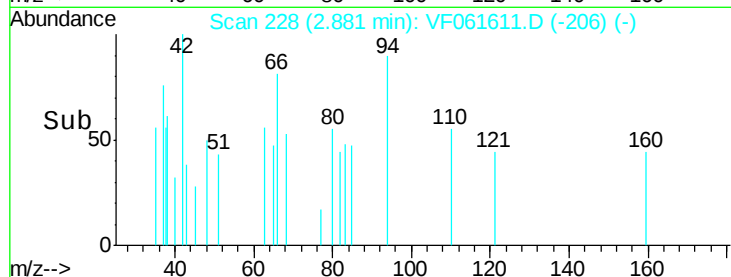
100 0.0 1.6 4.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: 80.801 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061611.D

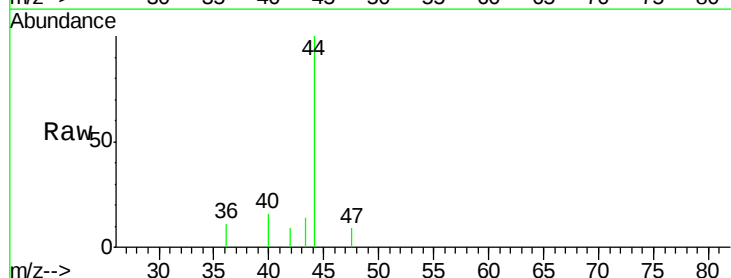
Acq: 12 Feb 2019 16:18

Tgt Ion: 43 Resp: 422

Ion Ratio Lower Upper

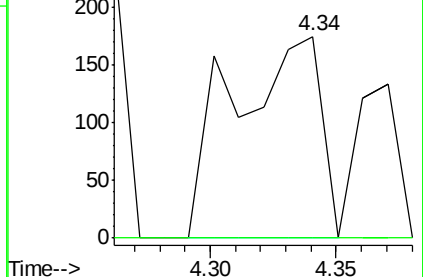
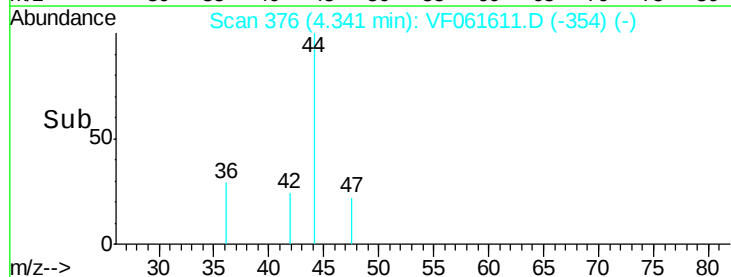
43 100

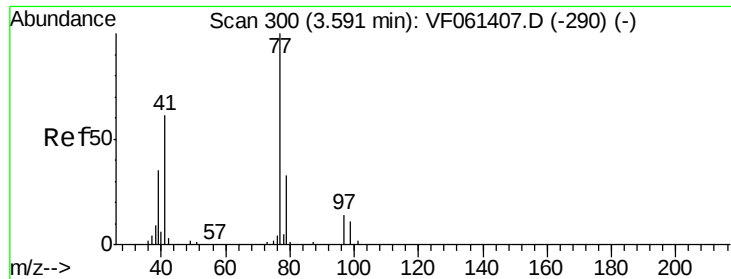
72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#26

2,2-Dichloropropane

Concen: 3.877 ug/l

RT: 3.70 min Scan# 311

Delta R.T. 0.11 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

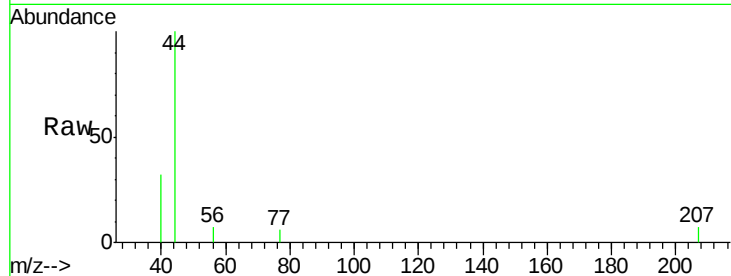
JC-02-021119-E

Tot Ion: 77 Resp: 60

Ion Ratio Lower Upper

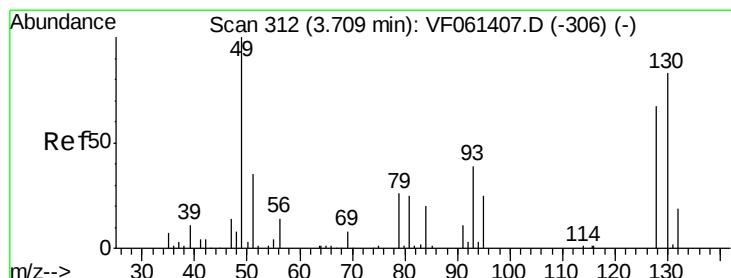
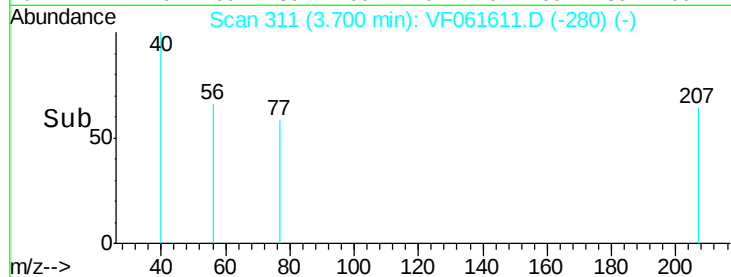
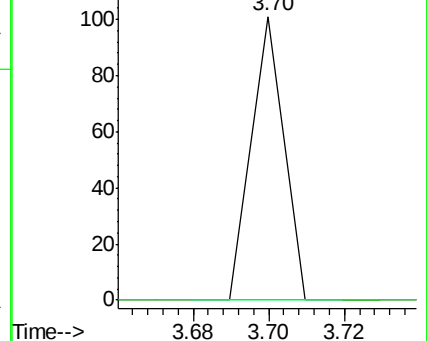
77 100

97 0.0 8.5 25.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



#28

Bromochloromethane

Concen: 5.476 ug/l

RT: 3.83 min Scan# 324

Delta R.T. 0.12 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

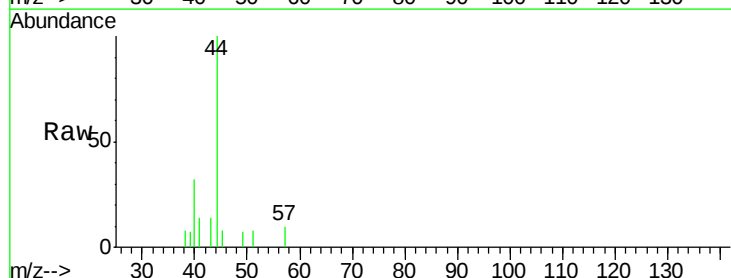
Tgt Ion: 49 Resp: 62

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

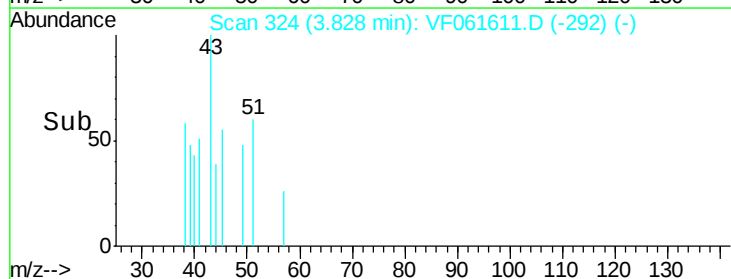
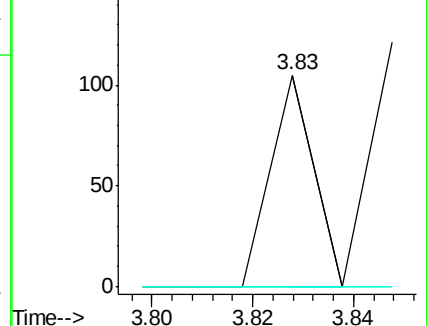
130 0.0 65.4 98.2#

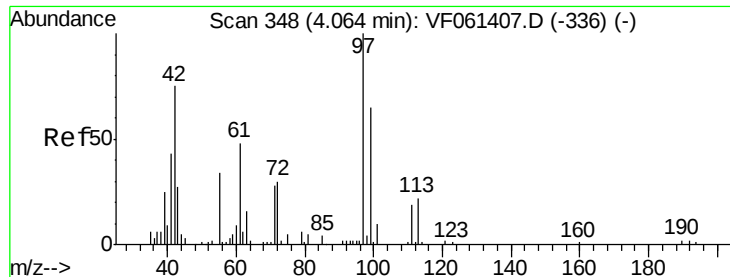


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 27.570 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

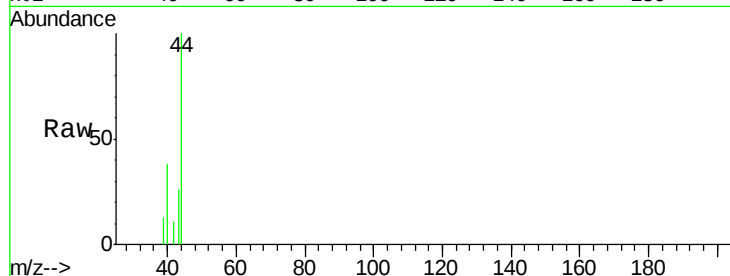
Tot Ion: 42 Resp: 62

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

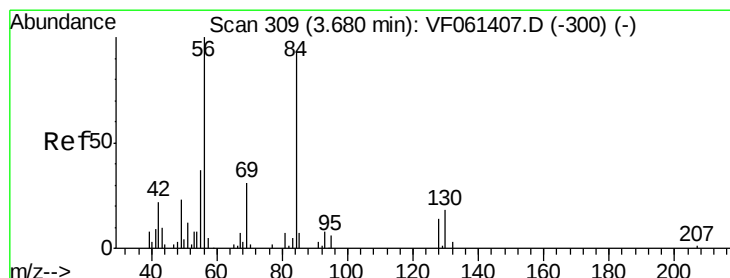
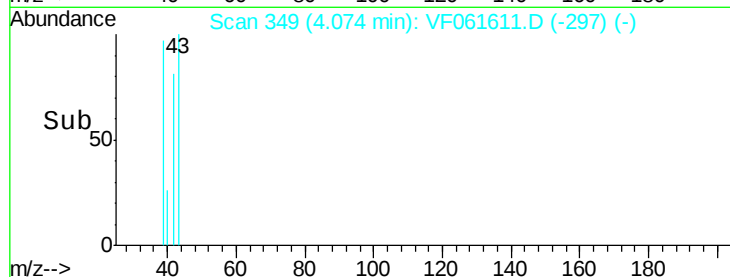
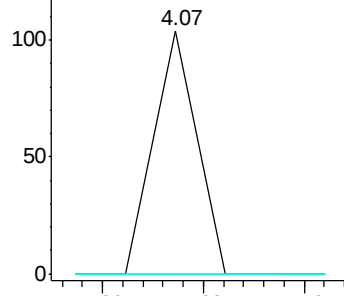
71 0.0 29.6 44.4#



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



#31

Cyclohexane

Concen: 2.703 ug/l

RT: 3.70 min Scan# 311

Delta R.T. 0.02 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

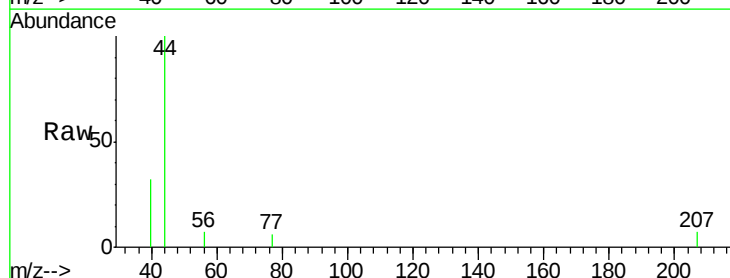
Tgt Ion: 56 Resp: 68

Ion Ratio Lower Upper

56 100

69 0.0 24.6 36.8#

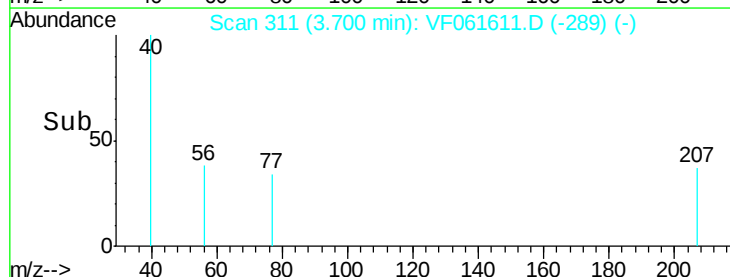
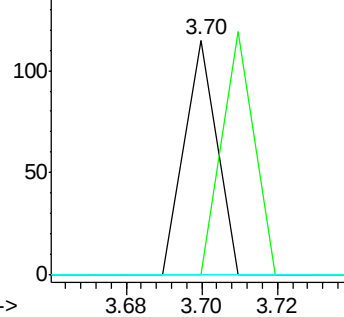
84 0.0 74.2 111.2#

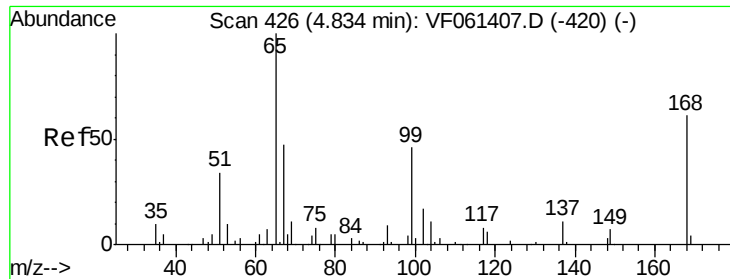


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 13.350 ug/l

RT: 4.83 min Scan# 426

Delta R.T. 0.00 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

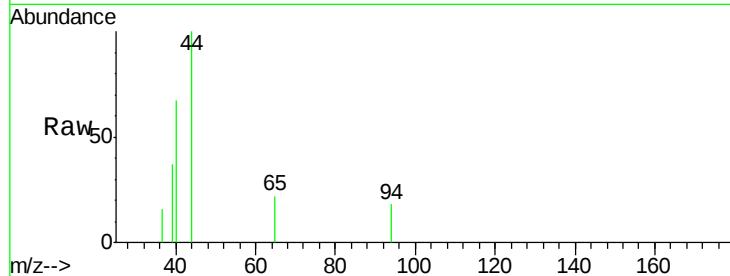
JC-02-021119-E

Tot Ion: 65 Resp: 209

Ion Ratio Lower Upper

65 100

67 0.0 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.83

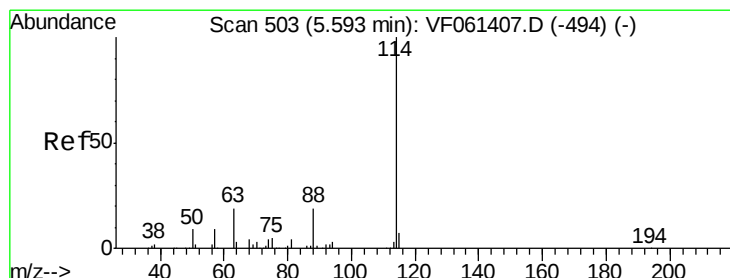
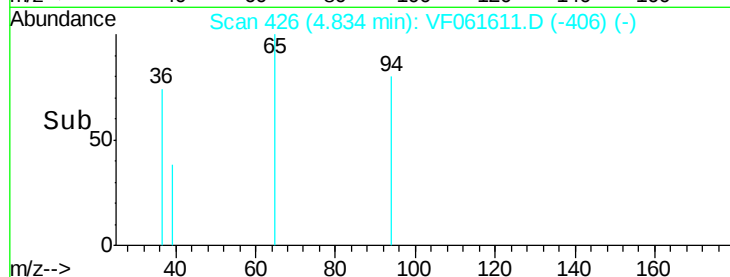
150

100

50

0

Time--> 4.78 4.80 4.82 4.84 4.86



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. 0.00 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

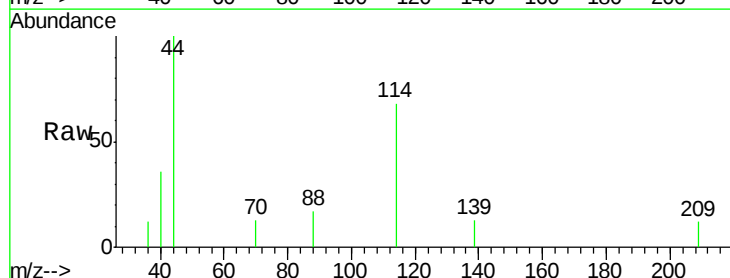
Tgt Ion: 114 Resp: 1697

Ion Ratio Lower Upper

114 100

63 0.0 0.0 39.0

88 25.0 0.0 37.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

800

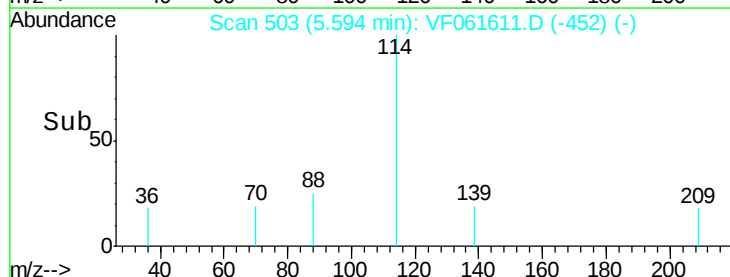
600

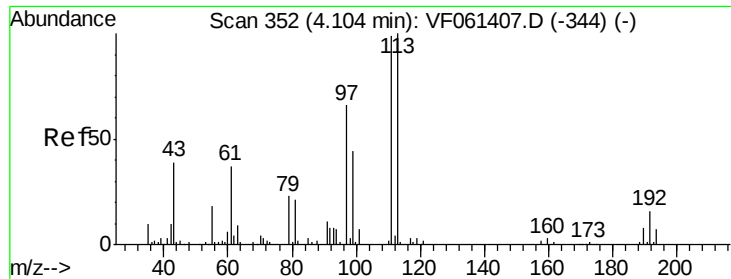
400

200

0

Time--> 5.50 5.55 5.60 5.65





#35

Dibromofluoromethane

Concen: 22.627 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

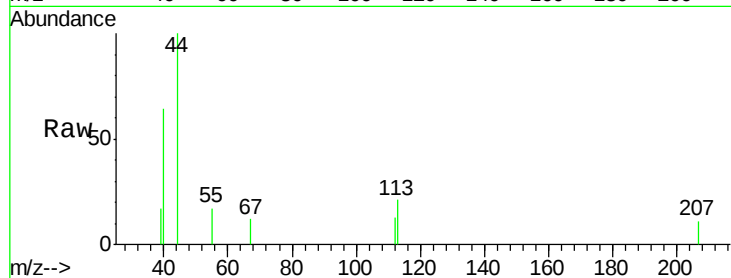
Tot Ion:113 Resp: 303

Ion Ratio Lower Upper

113 100

111 0.0 79.4 119.0#

192 0.0 12.4 18.6#

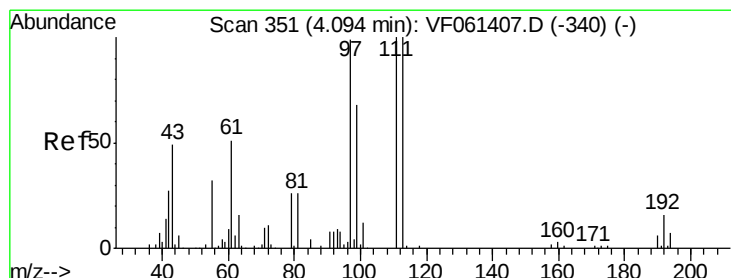
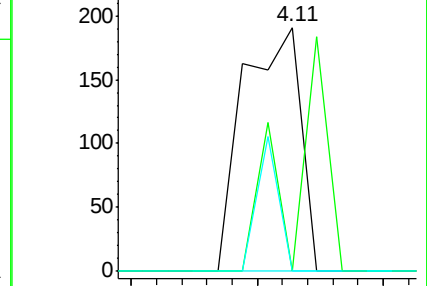
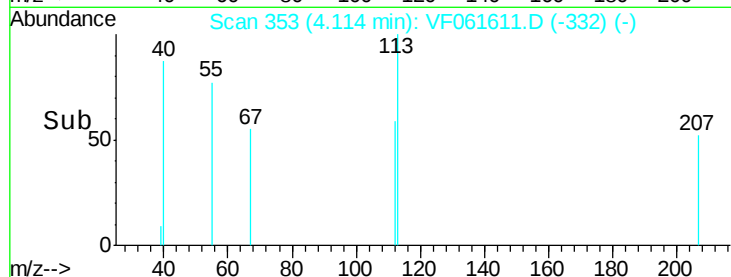


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

Time--> 4.05 4.10 4.15



#37

Ethyl Acetate

Concen: 10.807 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.01 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

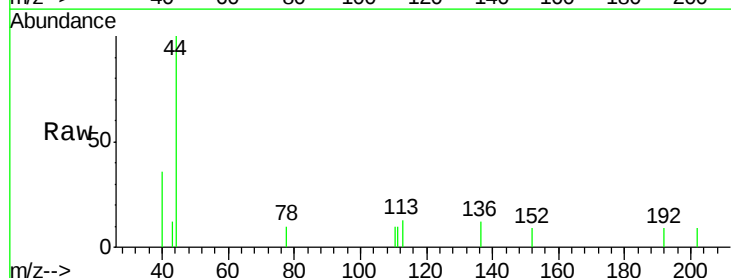
Tgt Ion: 43 Resp: 85

Ion Ratio Lower Upper

43 100

61 0.0 81.7 122.5#

70 0.0 6.2 9.2#

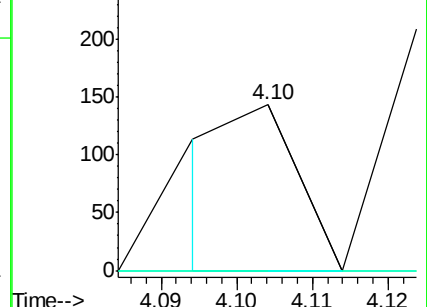
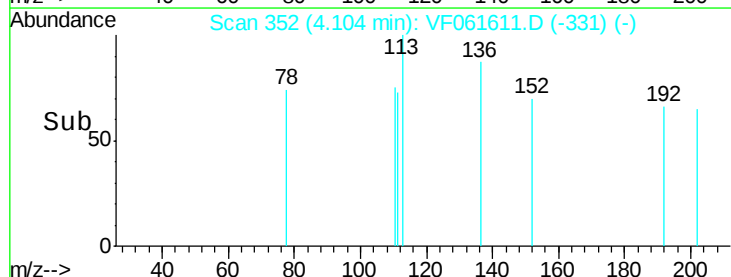


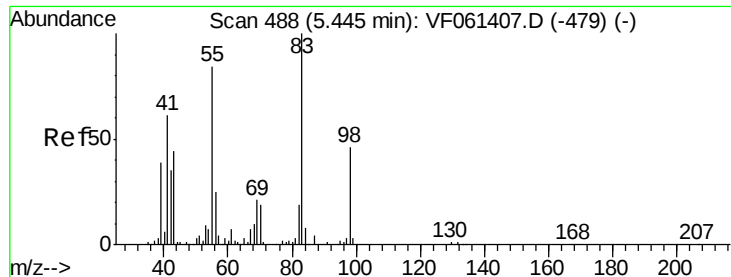
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Time--> 4.09 4.10 4.11 4.12

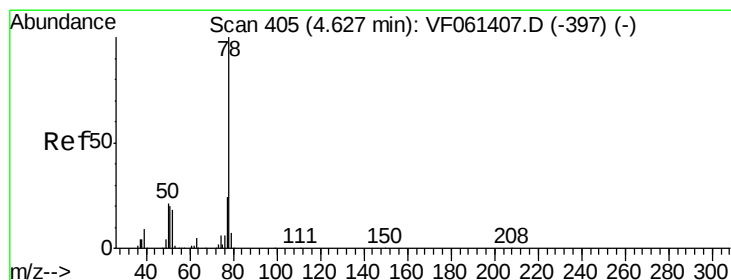
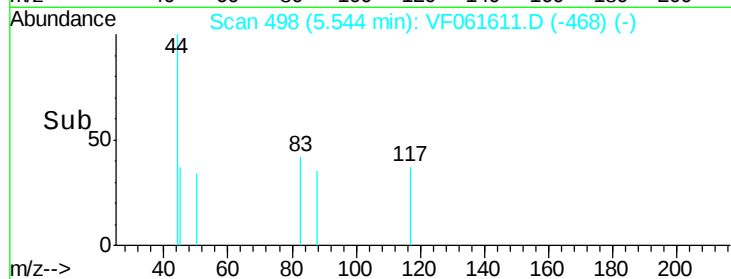
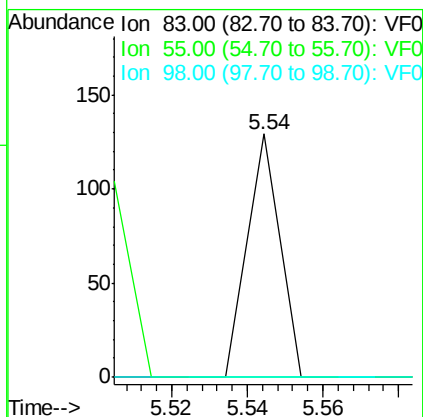
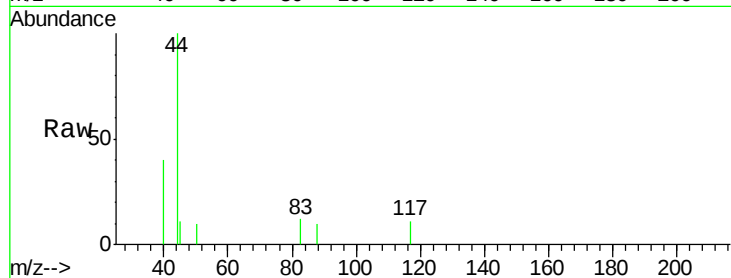




#39
Methvlcvclohexane
Concen: 3.564 ug/l
RT: 5.54 min Scan# 498
Delta R.T. 0.10 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

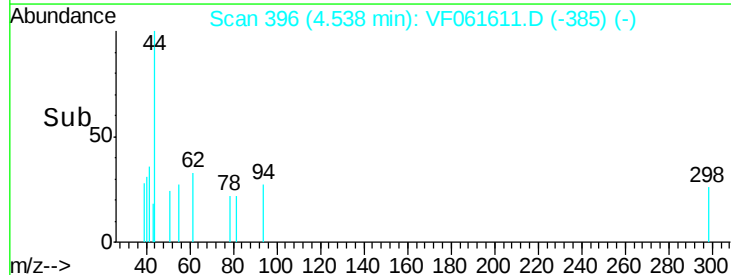
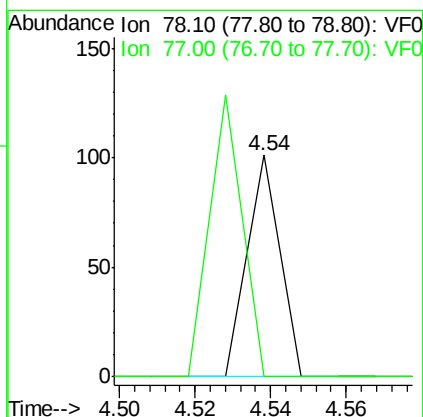
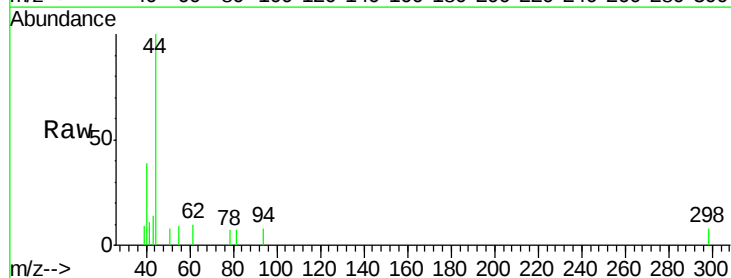
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-E

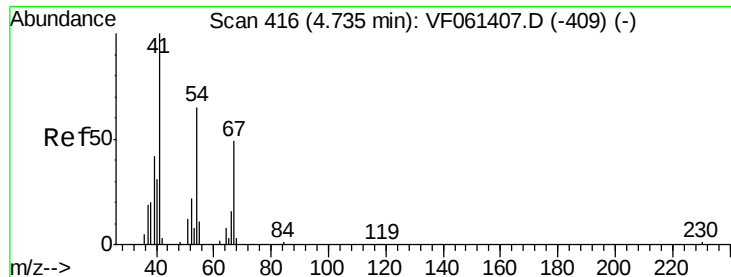
Tot Ion: 83 Resp: 76
Ion Ratio Lower Upper
83 100
55 0.0 67.4 101.2#
98 0.0 36.7 55.1#



#40
Benzene
Concen: 1.370 ug/l
RT: 4.54 min Scan# 396
Delta R.T. -0.09 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

Tgt Ion: 78 Resp: 60
Ion Ratio Lower Upper
78 100
77 0.0 19.0 28.6#





#41

Methacrylonitrile

Concen: 60.214 ug/l

RT: 4.69 min Scan# 411

Delta R.T. -0.05 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

Tot Ion: 41 Resp: 252

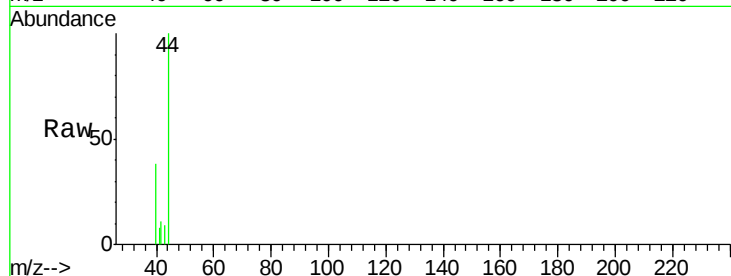
Ion Ratio Lower Upper

41 100

39 0.0 43.1 64.7#

67 0.0 38.8 58.2#

52 0.0 33.2 49.8#

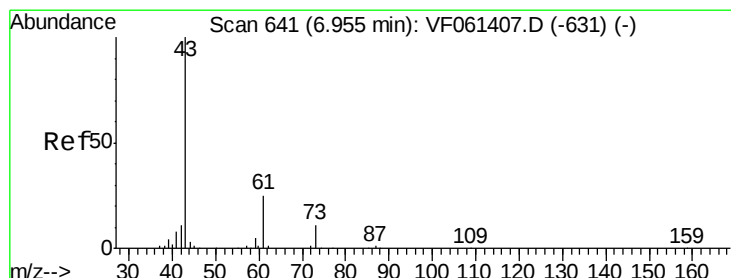
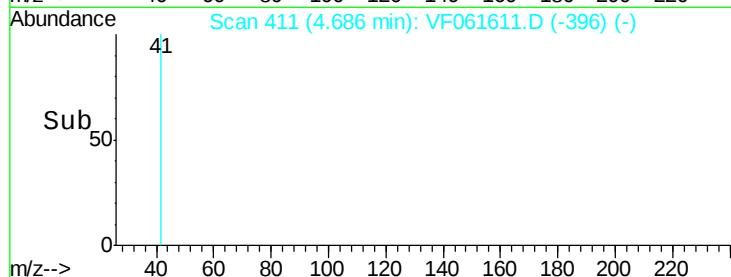
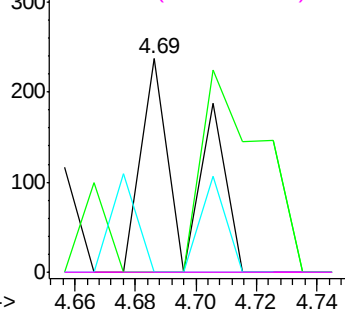


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#43

Isopropyl Acetate

Concen: 12.359 ug/l

RT: 6.92 min Scan# 637

Delta R.T. -0.04 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

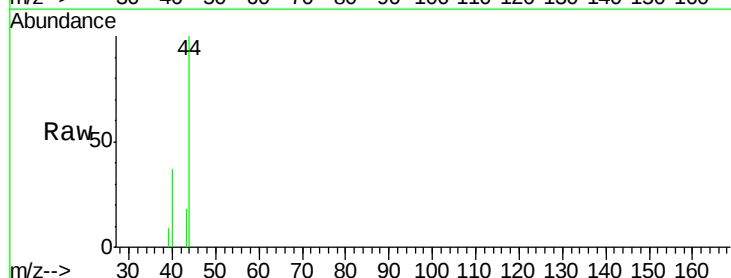
Tgt Ion: 43 Resp: 122

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

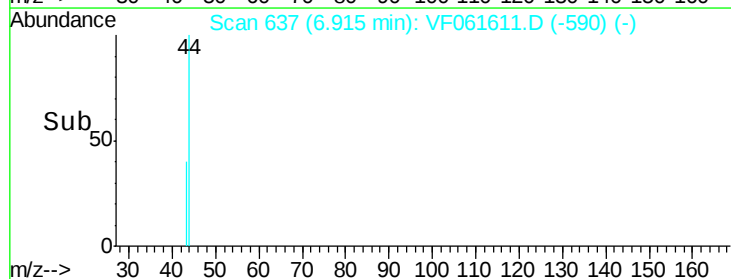
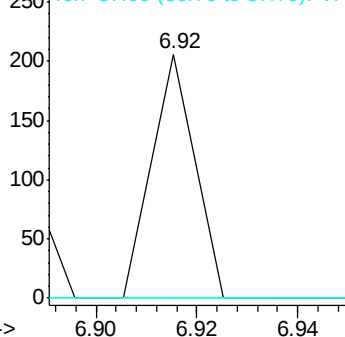
87 0.0 0.5 0.7#

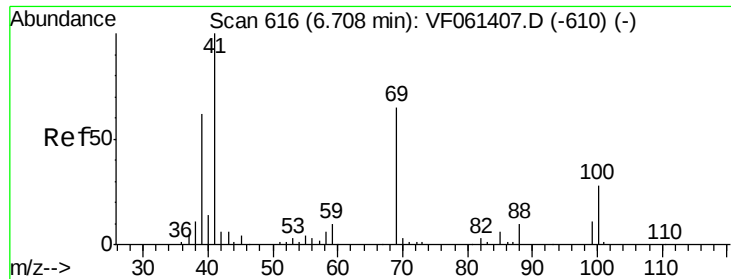


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#48

Methyl methacrylate

Concen: 20.668 ug/l

RT: 6.70 min Scan# 615

Delta R.T. -0.01 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

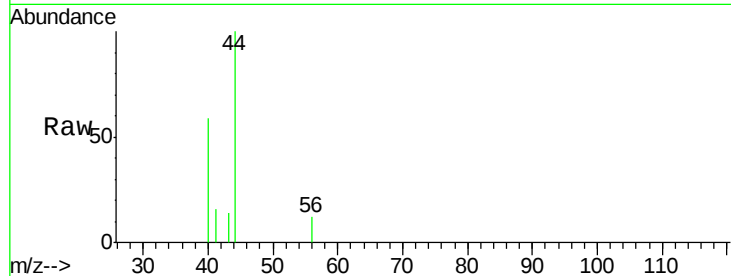
Tot Ion: 41 Resp: 137

Ion Ratio Lower Upper

41 100

69 0.0 51.7 77.5#

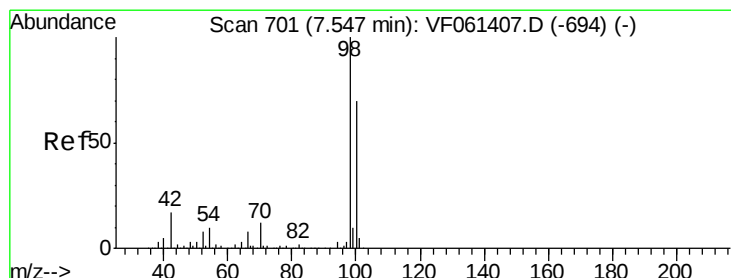
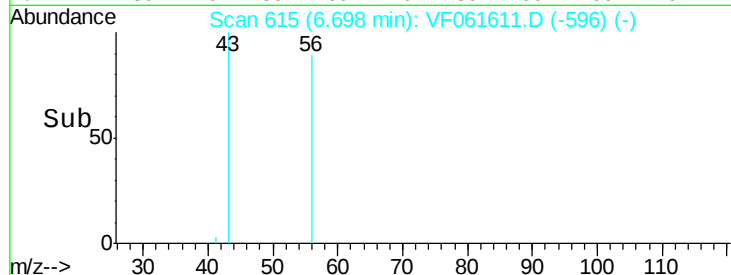
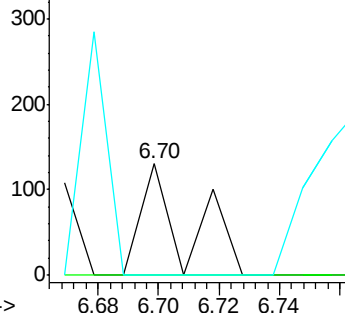
39 0.0 49.2 73.8#



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



#50

Toluene-d8

Concen: 40.013 ug/l

RT: 7.55 min Scan# 701

Delta R.T. 0.00 min

Lab File: VF061611.D

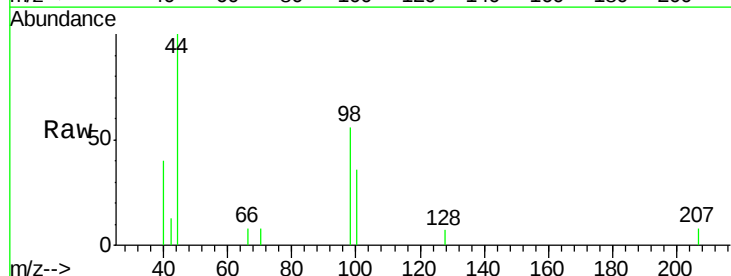
Acq: 12 Feb 2019 16:18

Tgt Ion: 98 Resp: 1468

Ion Ratio Lower Upper

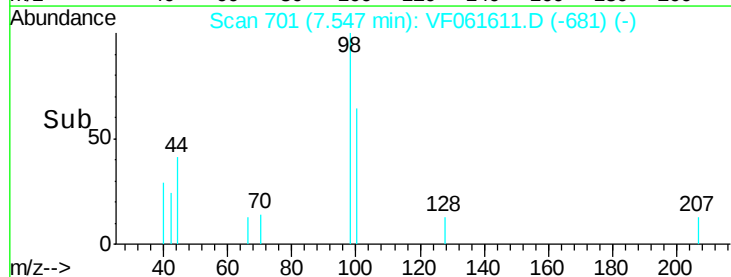
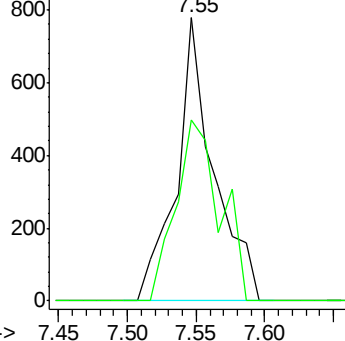
98 100

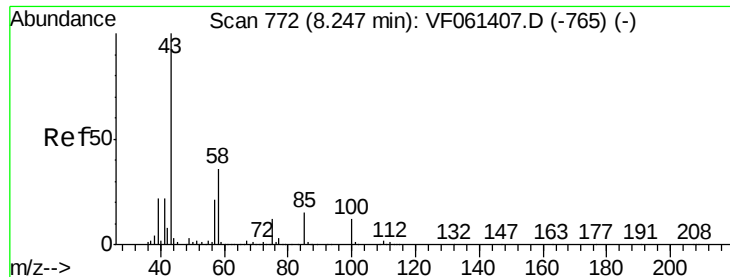
100 64.0 55.6 83.4



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: 12.264 ug/l

RT: 8.25 min Scan# 772

Delta R.T. 0.00 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

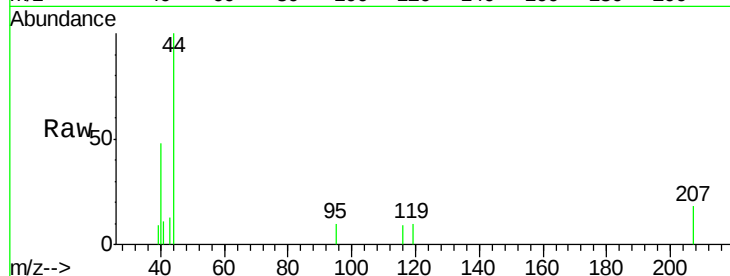
JC-02-021119-E

Tot Ion: 43 Resp: 89

Ion Ratio Lower Upper

43 100

58 0.0 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

150

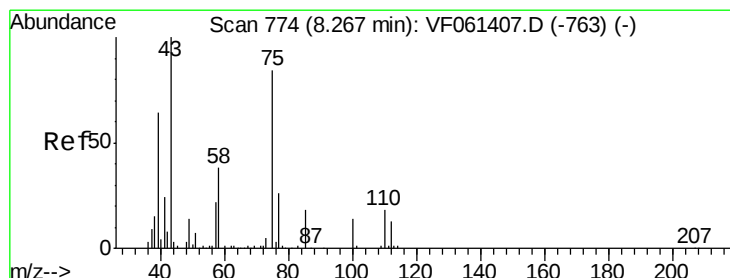
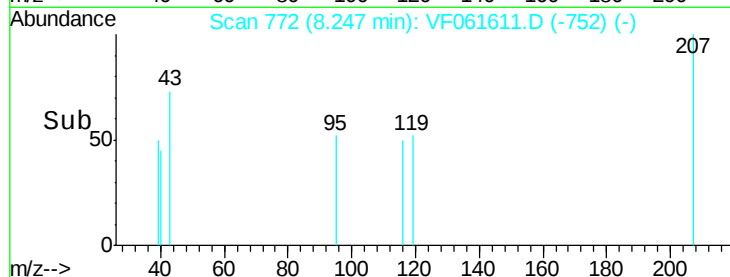
100

50

0

8.24 8.26

Time-->



#53

t-1,3-Dichloropropene

Concen: 3.997 ug/l

RT: 8.10 min Scan# 757

Delta R.T. -0.17 min

Lab File: VF061611.D

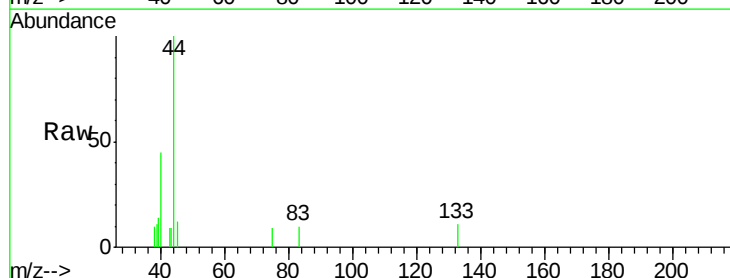
Acq: 12 Feb 2019 16:18

Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.10

120

100

80

60

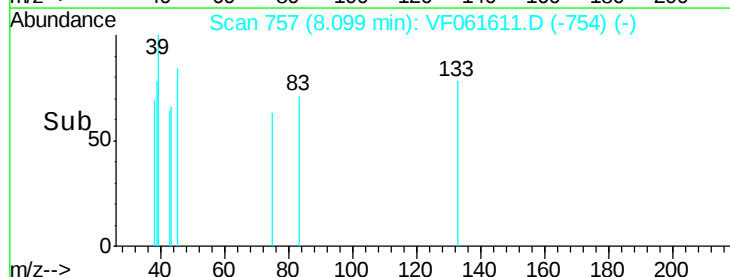
40

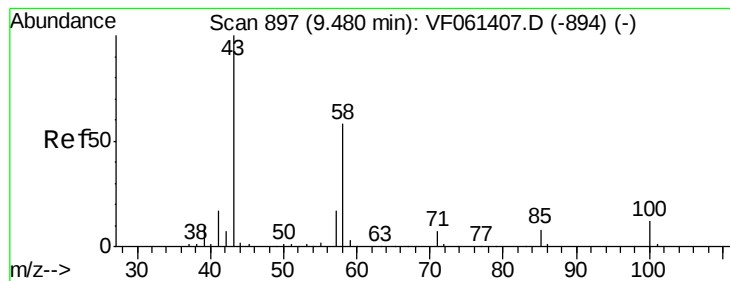
20

0

8.08 8.10 8.12

Time-->





#59

2-Hexanone

Concen: 40.115 ug/l

RT: 9.46 min Scan# 895

Delta R.T. -0.02 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

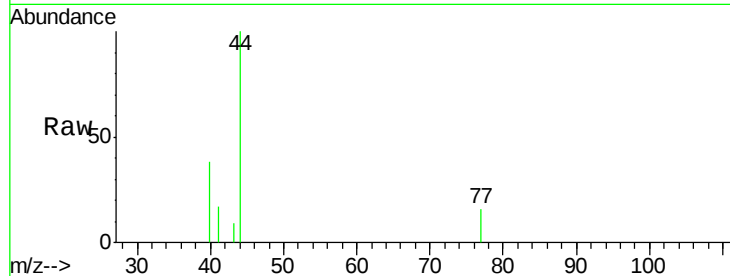
JC-02-021119-E

Tot Ion: 43 Resp: 203

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

200

150

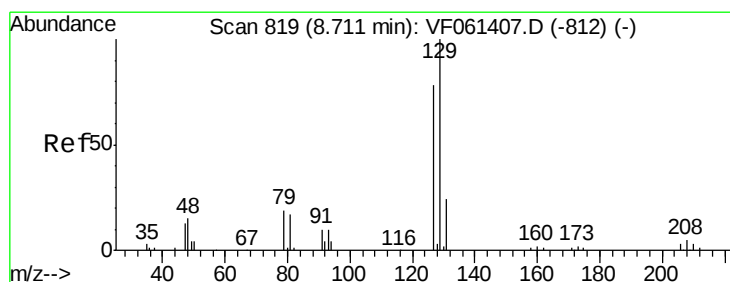
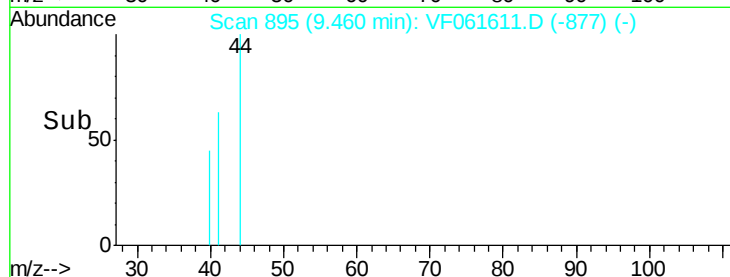
100

50

0

9.40 9.45 9.50

Time-->



#60

Dibromochloromethane

Concen: 6.015 ug/l

RT: 8.82 min Scan# 830

Delta R.T. 0.11 min

Lab File: VF061611.D

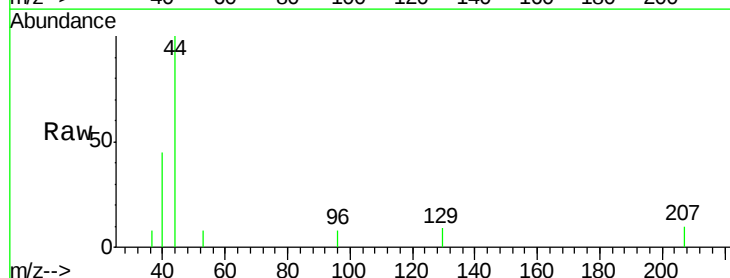
Acq: 12 Feb 2019 16:18

Tgt Ion: 129 Resp: 72

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

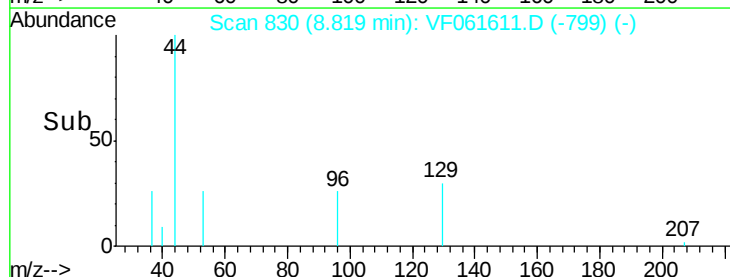
100

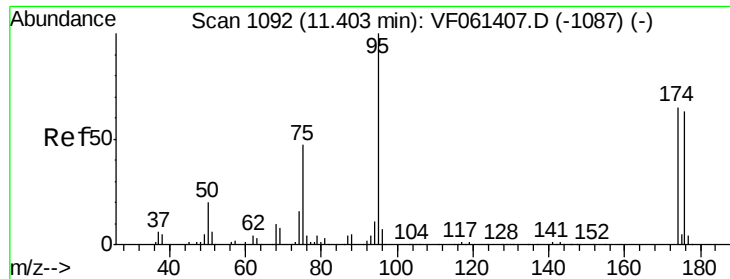
50

0

8.78 8.80 8.82 8.84

Time-->





#62

4-Bromofluorobenzene

Concen: 53.728 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

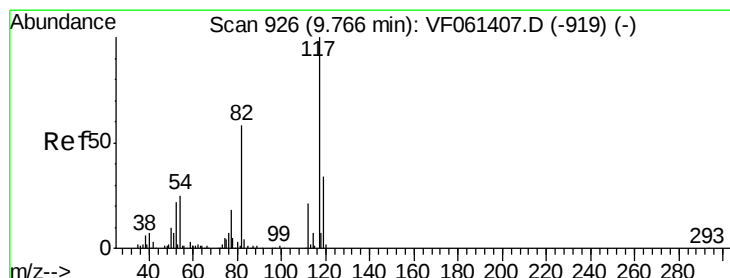
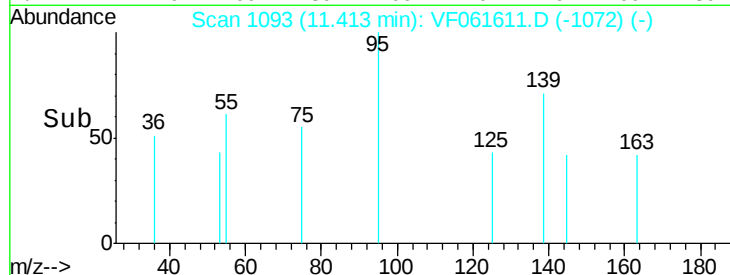
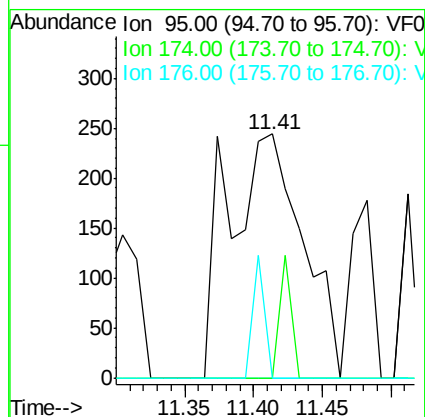
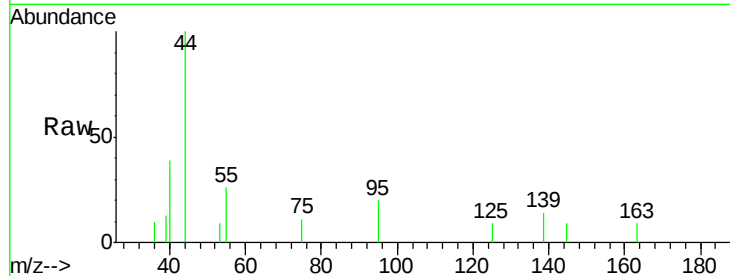
Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

Tot Ion:	95	Resp:	921
Ion	Ratio	Lower	Upper
95	100		
174	0.0	0.0	130.4
176	0.0	0.0	126.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

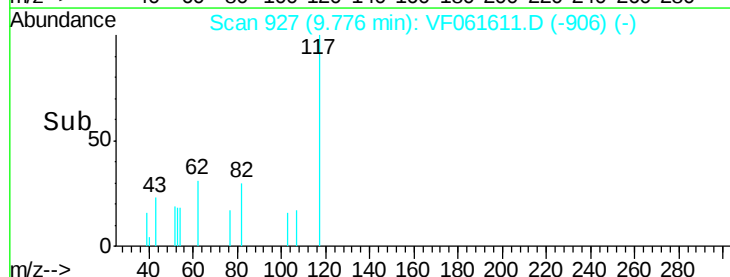
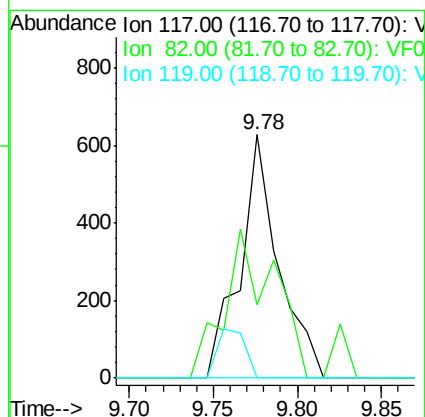
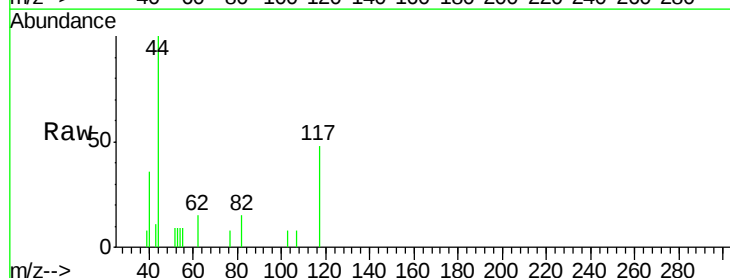
RT: 9.78 min Scan# 927

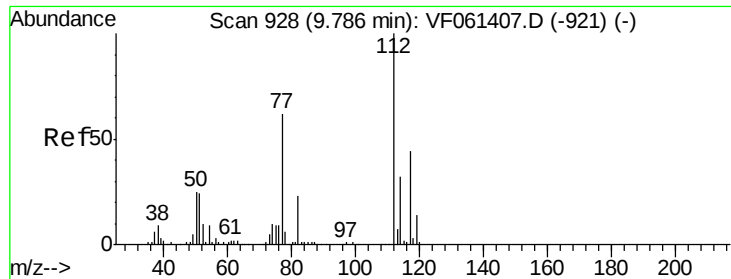
Delta R.T. 0.01 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Tgt Ion:	117	Resp:	999
Ion	Ratio	Lower	Upper
117	100		
82	30.1	46.4	69.6#
119	0.0	27.2	40.8#





#65

Chlorobenzene

Concen: 3.593 ug/l

RT: 9.86 min Scan# 936

Delta R.T. 0.08 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

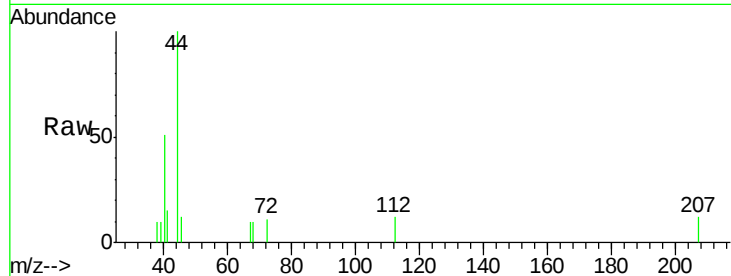
JC-02-021119-E

Tot Ion:112 Resp: 73

Ion Ratio Lower Upper

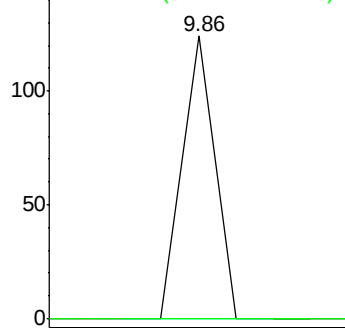
112 100

114 0.0 25.4 38.0#

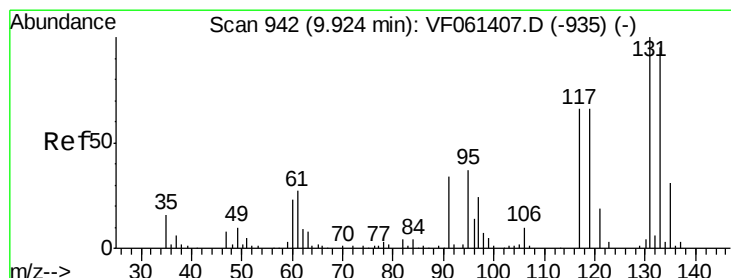
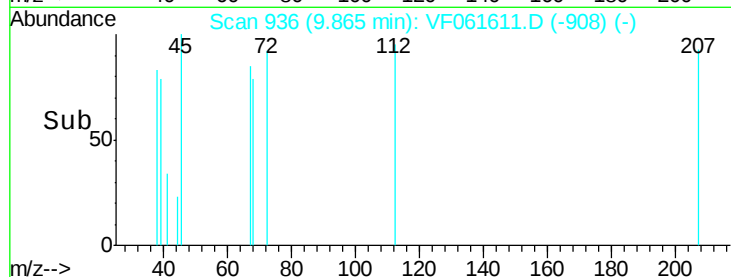


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 7.661 ug/l

RT: 9.97 min Scan# 947

Delta R.T. 0.05 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

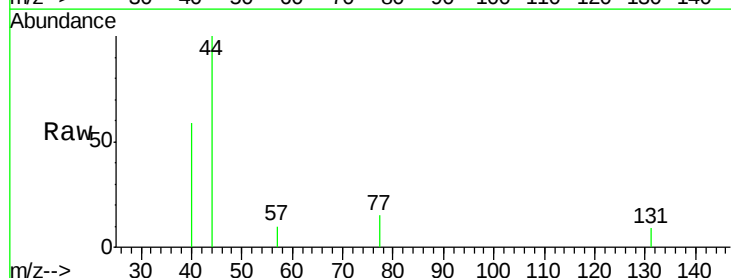
Tgt Ion:131 Resp: 62

Ion Ratio Lower Upper

131 100

133 0.0 47.4 142.2#

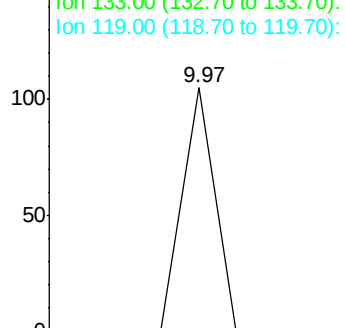
119 0.0 33.1 99.3#



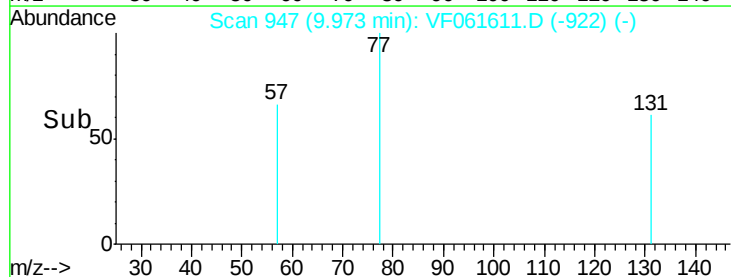
Abundance Ion 131.00 (130.70 to 131.70): V

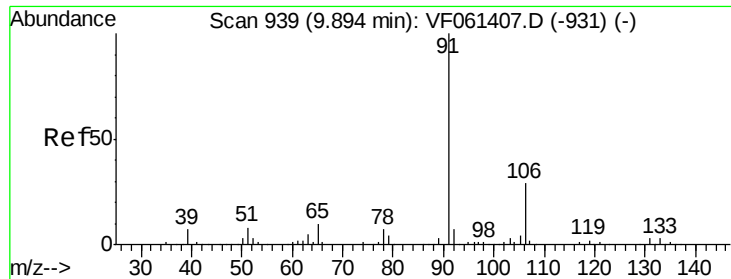
Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->





#67

Ethyl Benzene

Concen: 1.886 ug/l

RT: 9.89 min Scan# 939

Delta R.T. 0.00 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

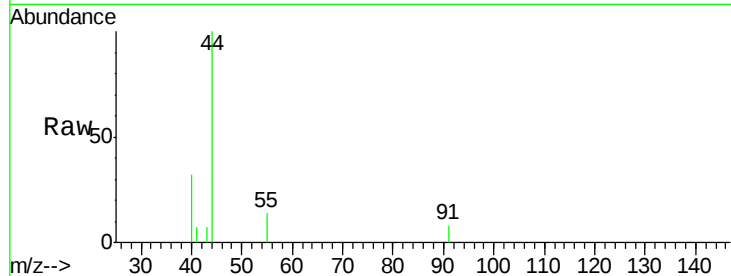
JC-02-021119-E

Tot Ion: 91 Resp: 70

Ion Ratio Lower Upper

91 100

106 0.0 23.1 34.7#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

9.89

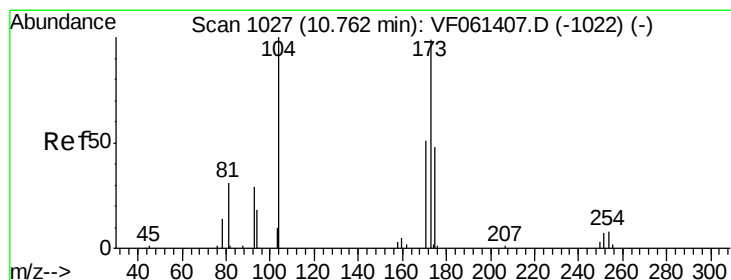
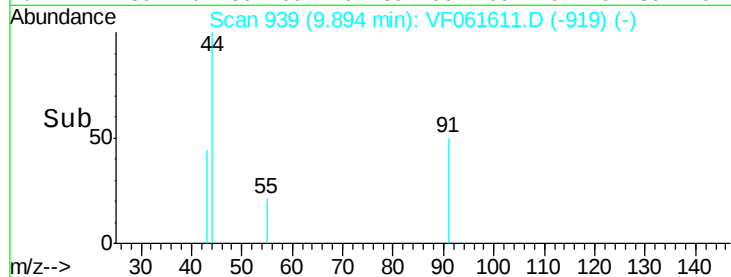
100

50

0

Time-->

9.86 9.88 9.90 9.92



#71

Bromoform

Concen: 22.001 ug/l

RT: 10.67 min Scan# 1018

Delta R.T. -0.09 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

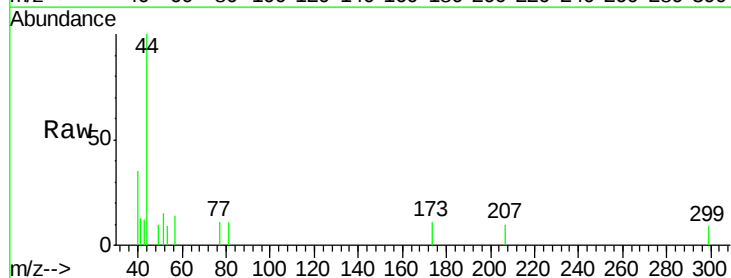
Tgt Ion: 173 Resp: 80

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.4#

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

10.67

150

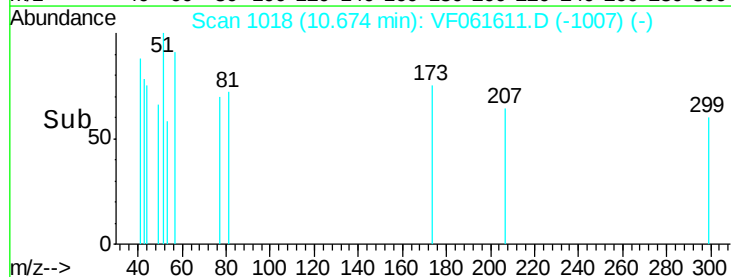
100

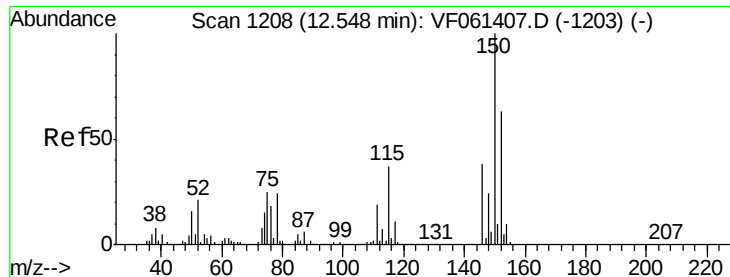
50

0

Time-->

10.64 10.66 10.68 10.70



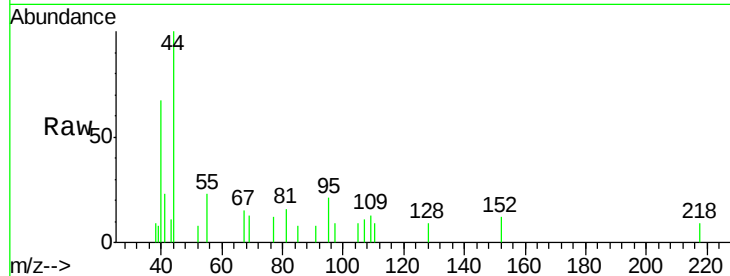


#72

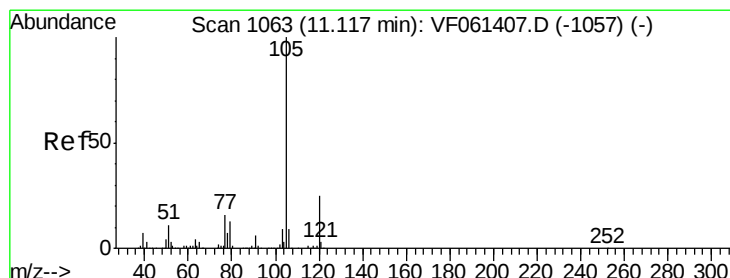
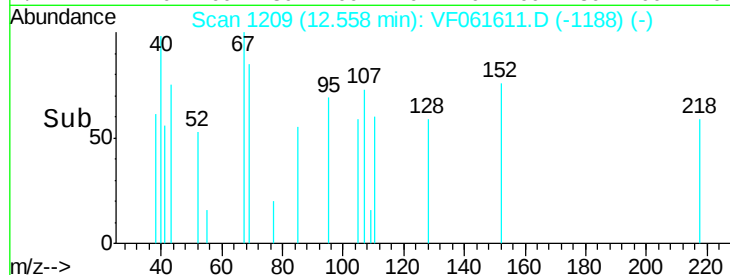
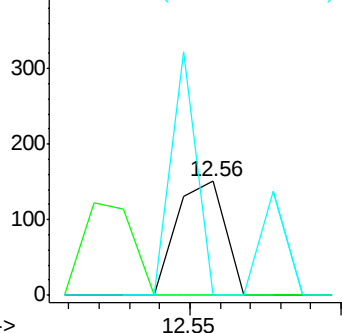
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-E

Tot Ion:152 Resp: 166
Ion Ratio Lower Upper
152 100
115 0.0 30.0 90.0#
150 0.0 0.0 321.4



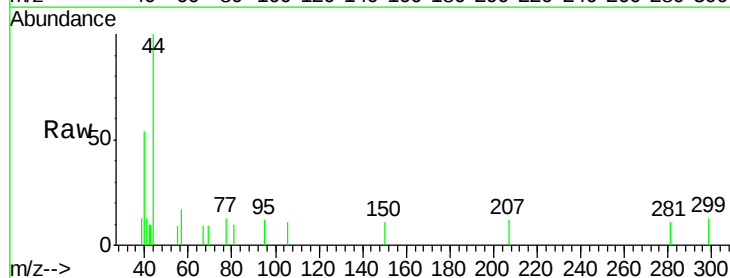
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



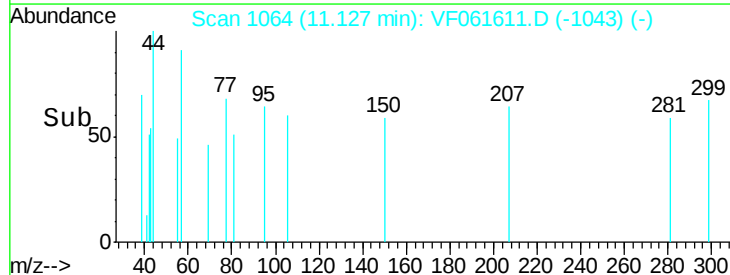
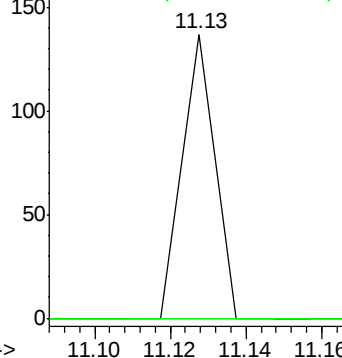
#73

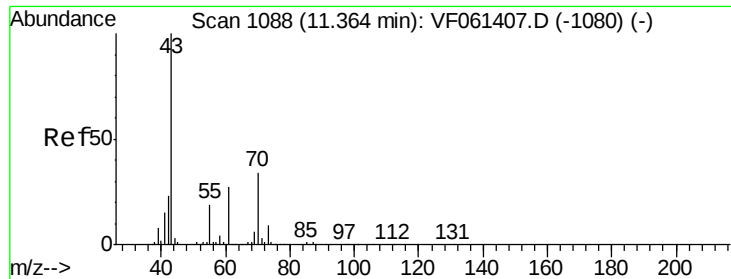
Isopropylbenzene
Concen: 6.000 ug/l
RT: 11.13 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

Tgt Ion:105 Resp: 81
Ion Ratio Lower Upper
105 100
120 0.0 12.6 37.8#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 79.248 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

Tot Ion: 43 Resp: 253

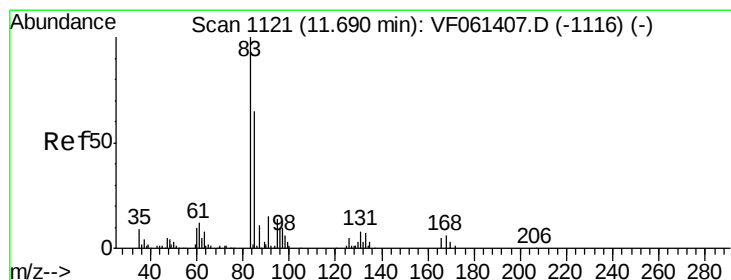
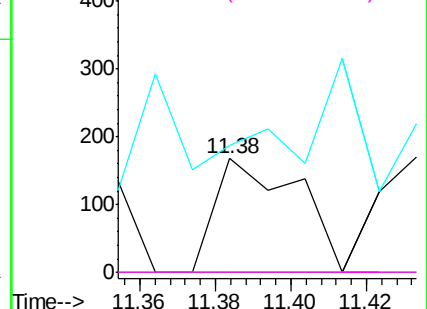
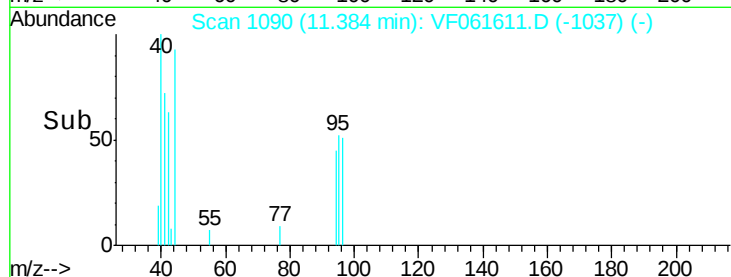
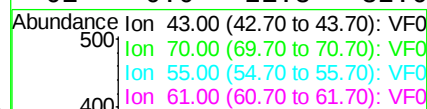
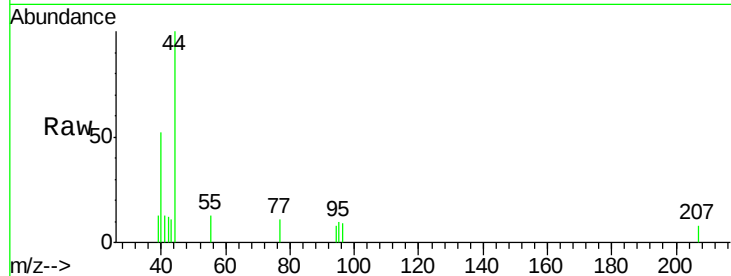
Ion Ratio Lower Upper

43 100

70 0.0 27.6 41.4#

55 111.9 15.4 23.2#

61 0.0 21.8 32.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 194.164 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

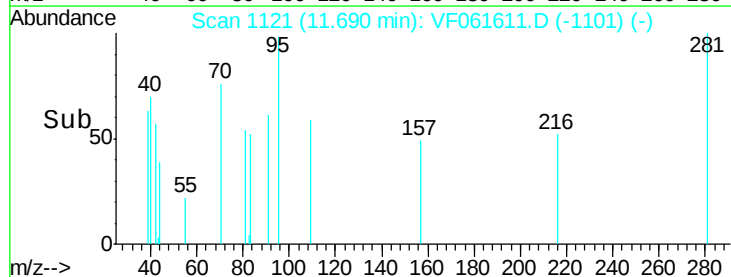
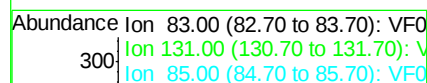
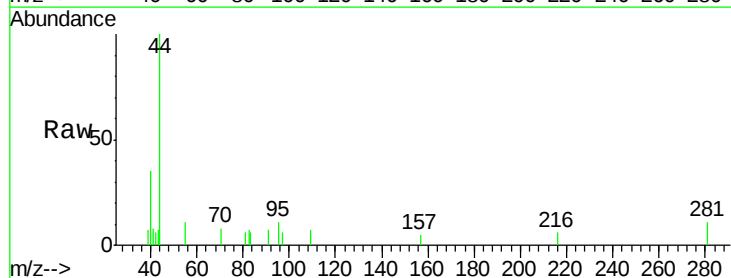
Tgt Ion: 83 Resp: 467

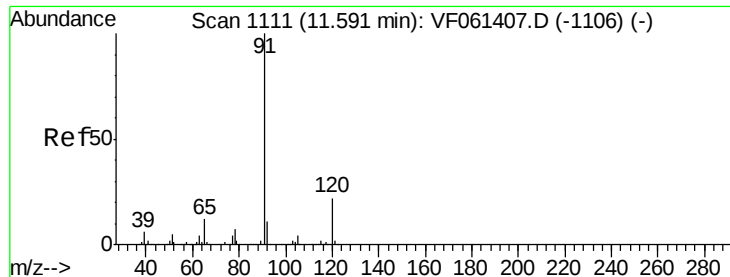
Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.2#

85 0.0 32.7 98.1#





#78

n-propylbenzene

Concen: 4.181 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

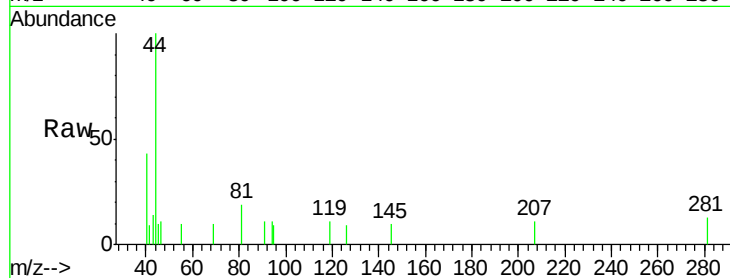
JC-02-021119-E

Tot Ion: 91 Resp: 73

Ion Ratio Lower Upper

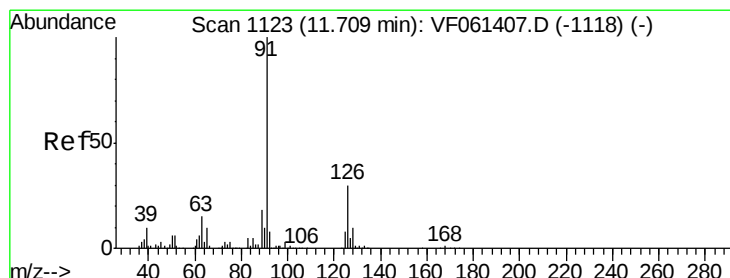
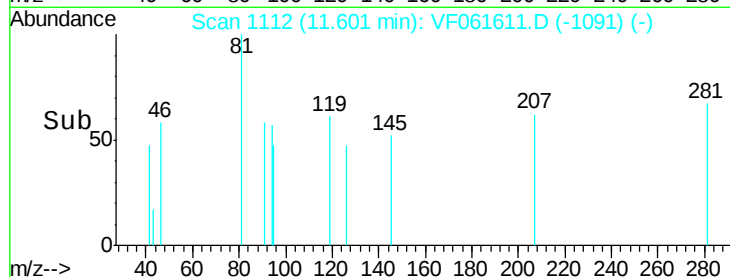
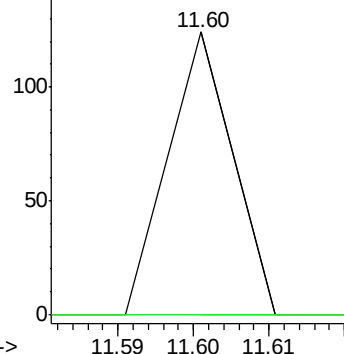
91 100

120 0.0 10.9 32.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 35.121 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VF061611.D

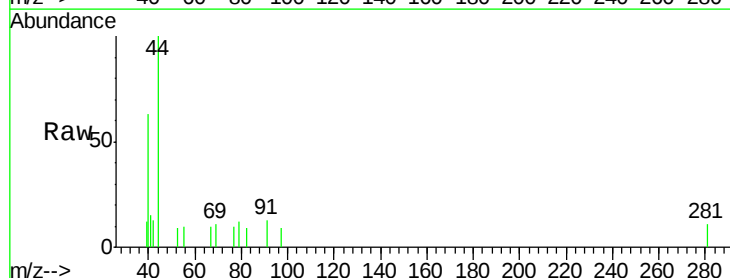
Acq: 12 Feb 2019 16:18

Tgt Ion: 91 Resp: 329

Ion Ratio Lower Upper

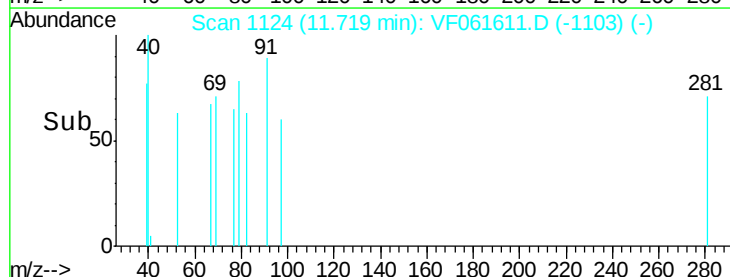
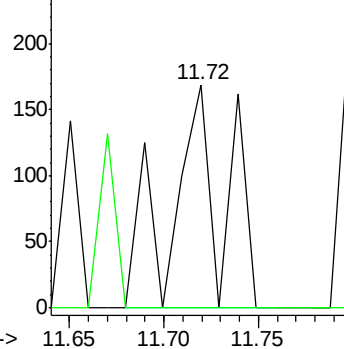
91 100

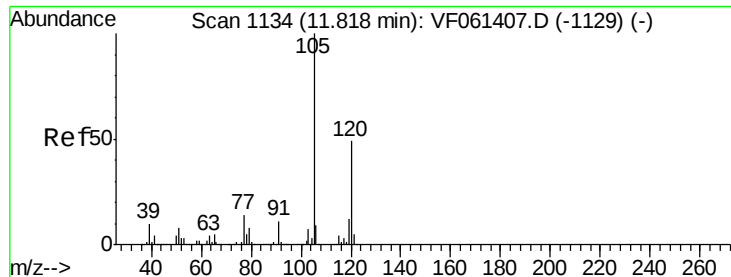
126 0.0 15.0 45.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#80

1,3,5-Trimethylbenzene

Concen: 10.647 ug/l

RT: 11.86 min Scan# 1138

Delta R.T. 0.04 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

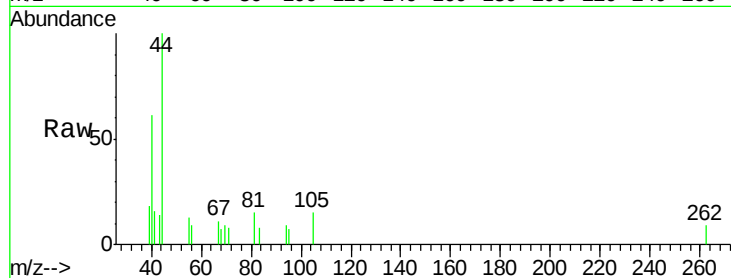
JC-02-021119-E

Tot Ion:105 Resp: 116

Ion Ratio Lower Upper

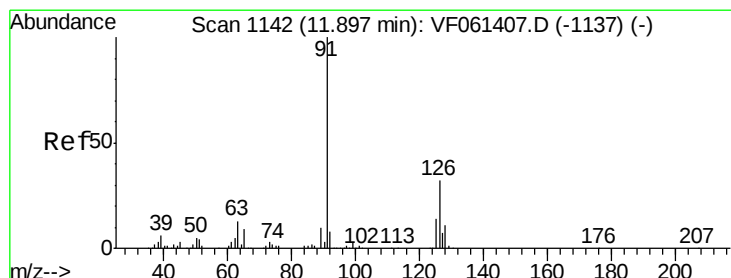
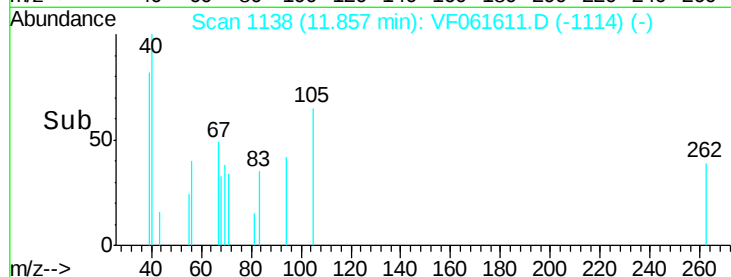
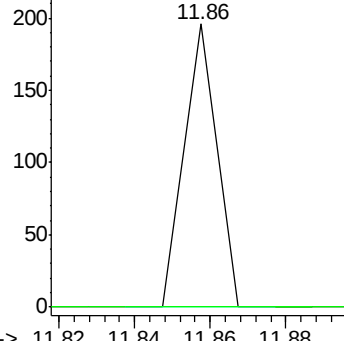
105 100

120 0.0 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

4-Chlorotoluene

Concen: 10.790 ug/l

RT: 11.94 min Scan# 1146

Delta R.T. 0.04 min

Lab File: VF061611.D

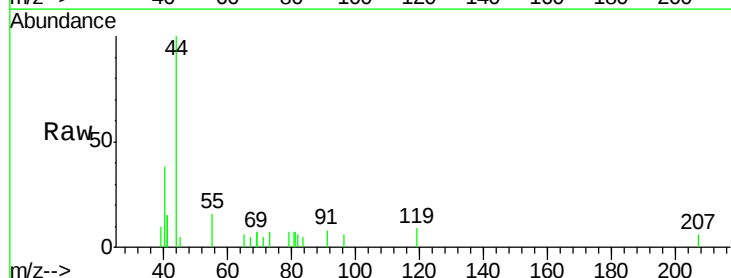
Acq: 12 Feb 2019 16:18

Tgt Ion: 91 Resp: 102

Ion Ratio Lower Upper

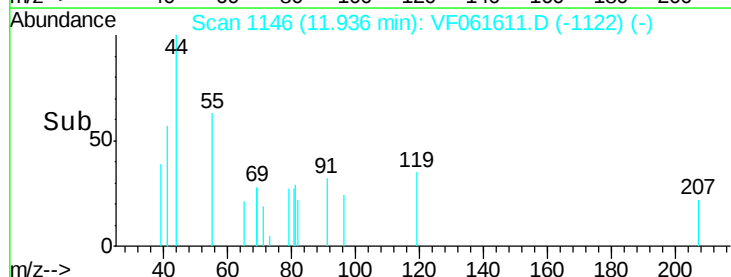
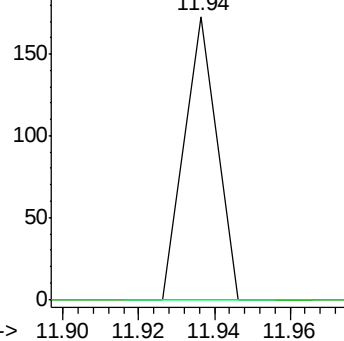
91 100

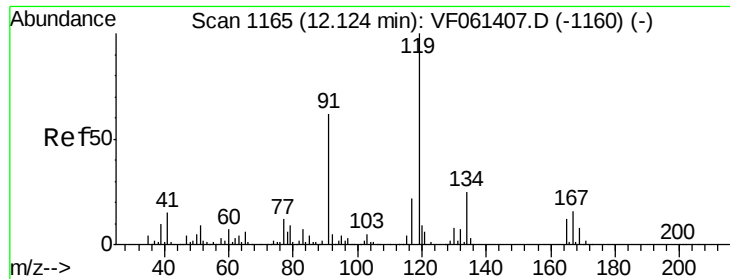
126 0.0 16.0 47.9#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

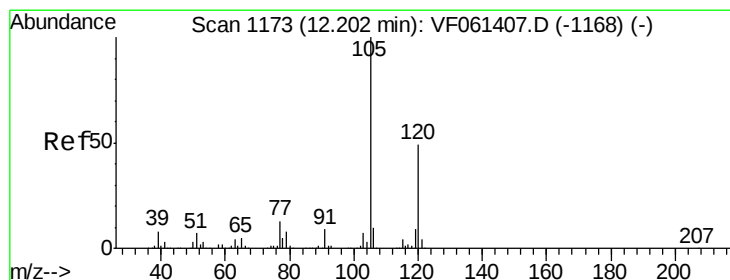
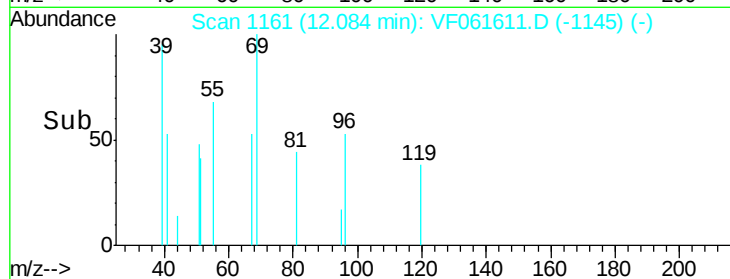
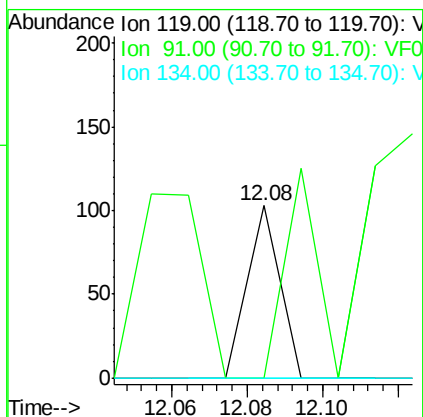
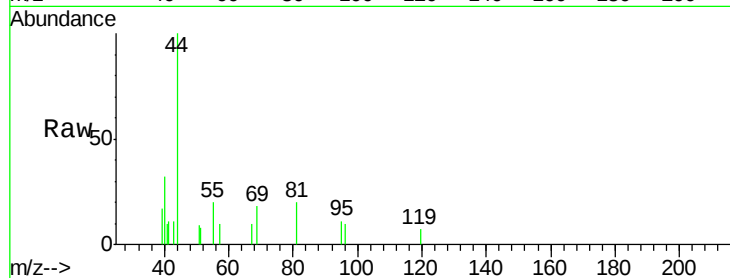




#83
tert-Butylbenzene
Concen: 5.409 ug/l
RT: 12.08 min Scan# 1161
Delta R.T. -0.04 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

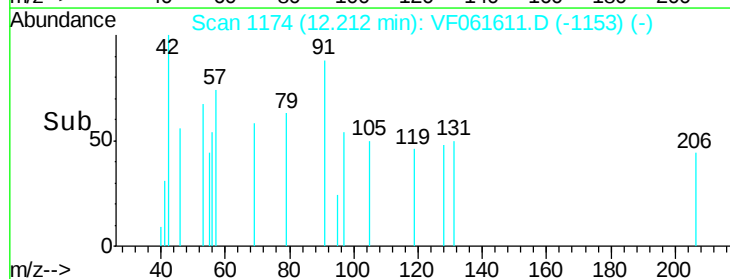
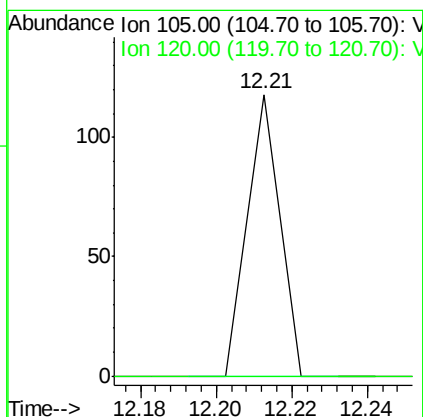
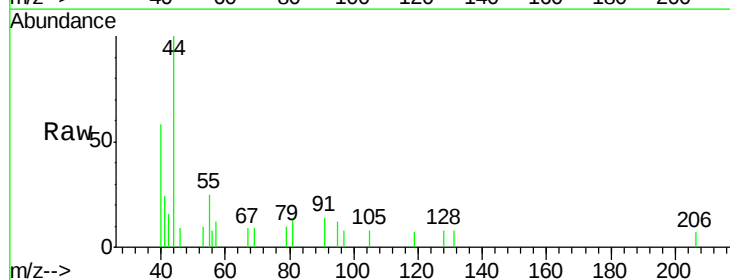
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-E

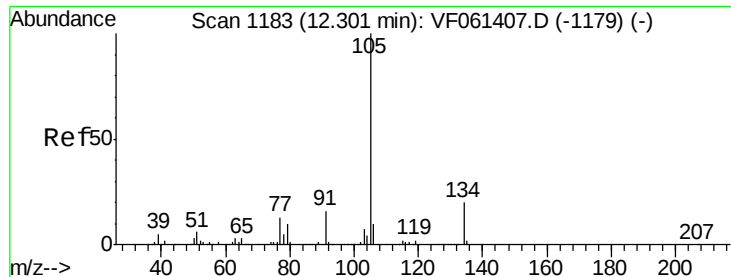
Tot Ion:119 Resp: 61
Ion Ratio Lower Upper
119 100
91 0.0 31.3 93.8#
134 0.0 12.4 37.0#



#84
1,2,4-Trimethylbenzene
Concen: 6.237 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. 0.01 min
Lab File: VF061611.D
Acq: 12 Feb 2019 16:18

Tgt Ion:105 Resp: 70
Ion Ratio Lower Upper
105 100
120 0.0 24.9 74.6#

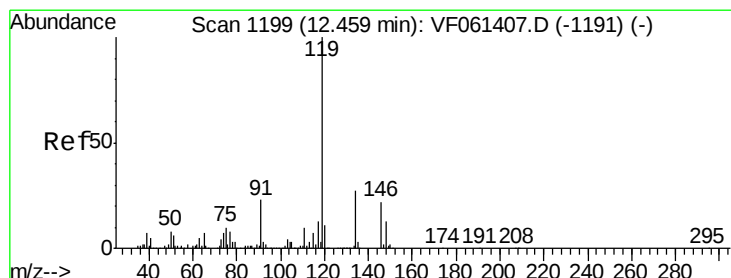
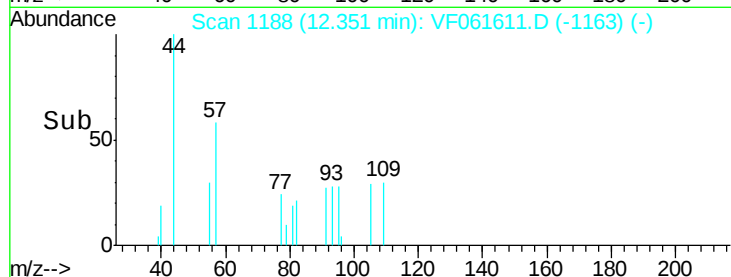
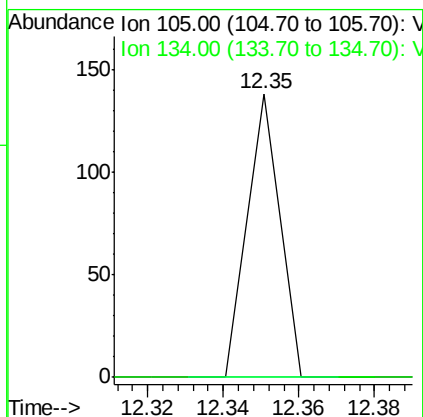
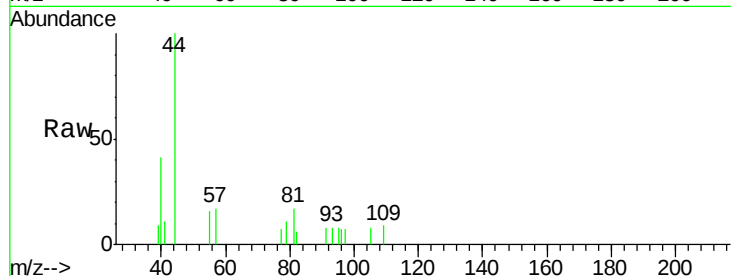




#85
 sec-Butylbenzene
 Concen: 5.354 ug/l
 RT: 12.35 min Scan# 1188
 Delta R.T. 0.05 min
 Lab File: VF061611.D
 Acq: 12 Feb 2019 16:18

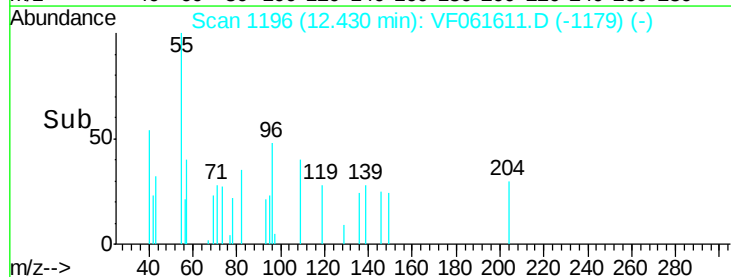
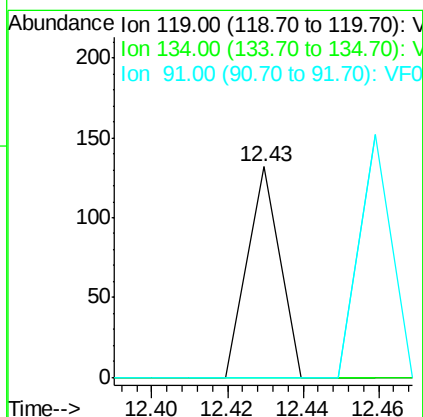
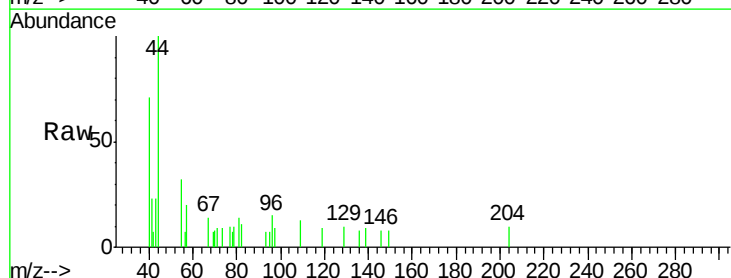
Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-E

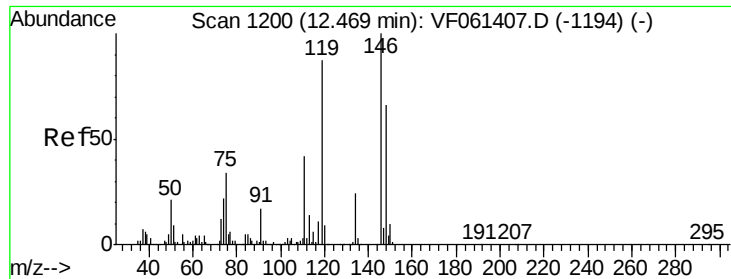
Tot Ion:105 Resp: 82
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.0 30.0#



#86
 p-Isopropyltoluene
 Concen: 6.204 ug/l
 RT: 12.43 min Scan# 1196
 Delta R.T. -0.03 min
 Lab File: VF061611.D
 Acq: 12 Feb 2019 16:18

Tgt Ion:119 Resp: 78
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.4 40.2#
 91 0.0 11.4 34.2#





#87

1,3-Dichlorobenzene

Concen: 11.483 ug/l

RT: 12.43 min Scan# 1196

Delta R.T. -0.04 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

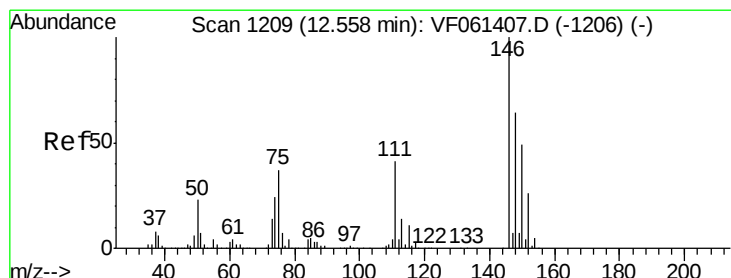
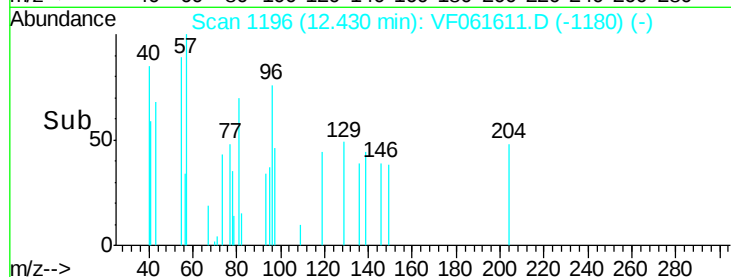
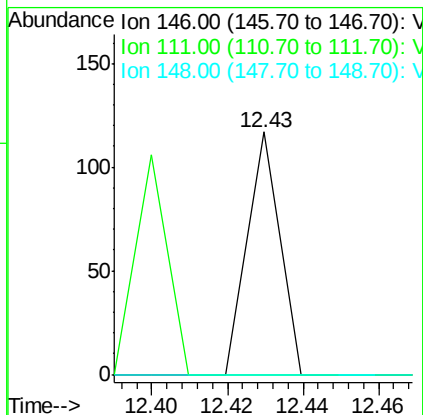
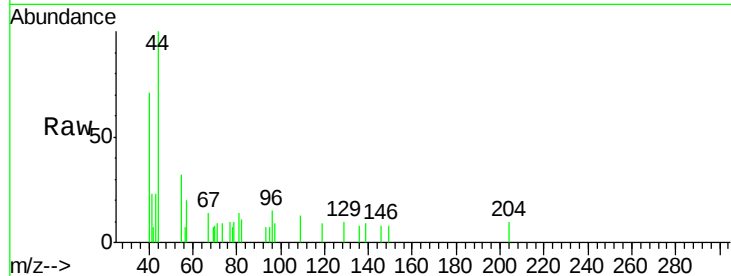
Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

Tot Ion:146	Resp:	69
Ion Ratio	Lower	Upper
146	100	
111	0.0	21.1 63.4#
148	0.0	32.9 98.6#



#88

1,4-Dichlorobenzene

Concen: 12.806 ug/l

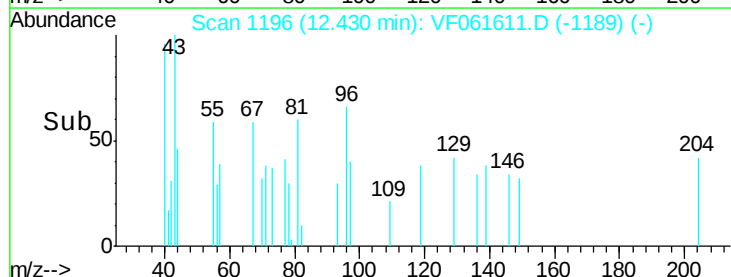
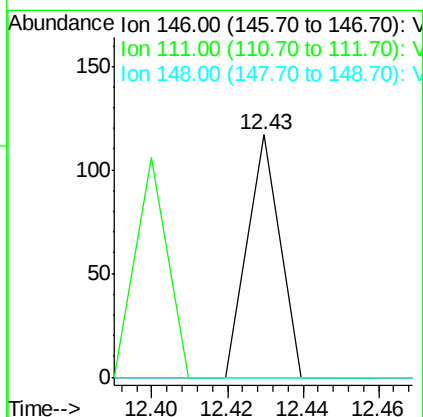
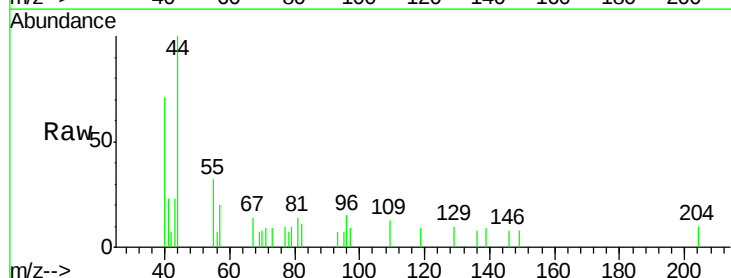
RT: 12.43 min Scan# 1196

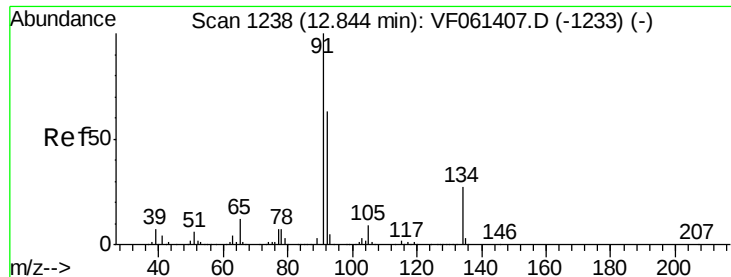
Delta R.T. -0.13 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Tgt Ion:146	Resp:	69
Ion Ratio	Lower	Upper
146	100	
111	0.0	20.8 62.2#
148	0.0	32.1 96.5#





#89

n-Butylbenzene

Concen: 26.687 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. 0.00 min

Lab File: VF061611.D

Acq: 12 Feb 2019 16:18

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-E

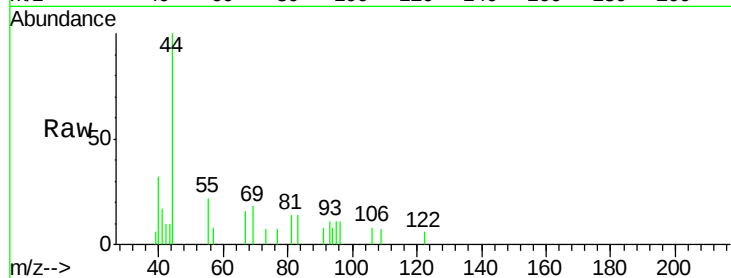
Tot Ion: 91 Resp: 346

Ion Ratio Lower Upper

91 100

92 0.0 31.6 94.7#

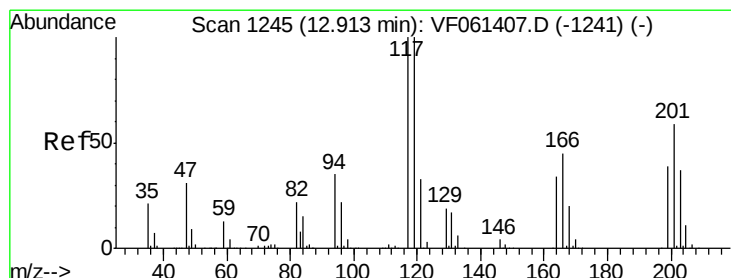
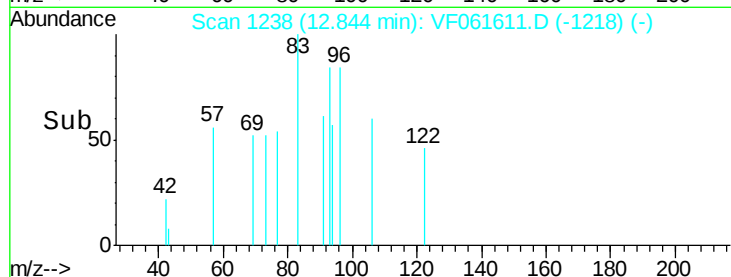
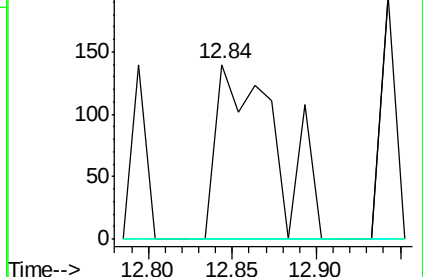
134 0.0 13.6 40.8#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 23.621 ug/l

RT: 12.81 min Scan# 1235

Delta R.T. -0.10 min

Lab File: VF061611.D

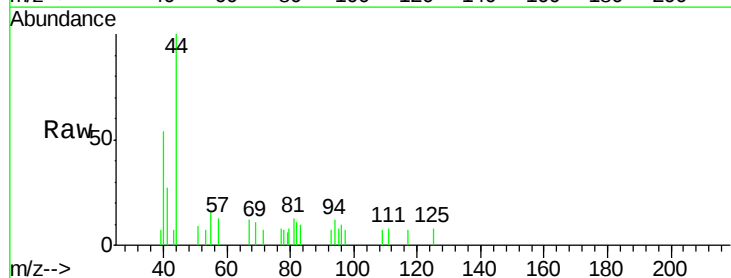
Acq: 12 Feb 2019 16:18

Tgt Ion: 117 Resp: 70

Ion Ratio Lower Upper

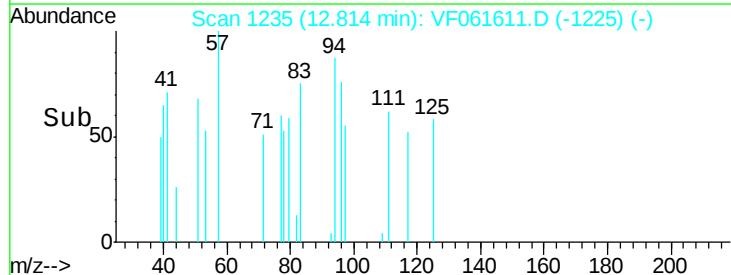
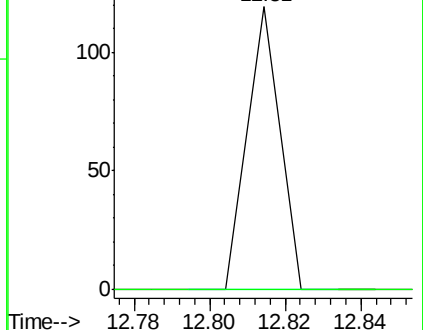
117 100

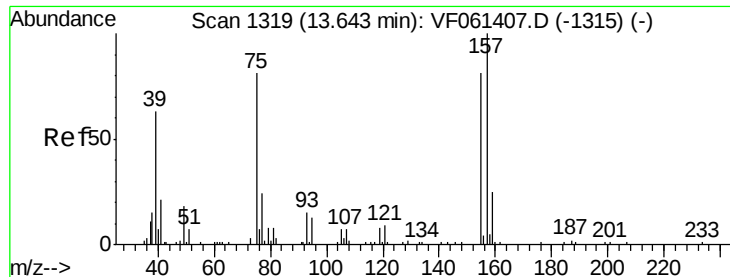
201 0.0 29.3 87.8#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

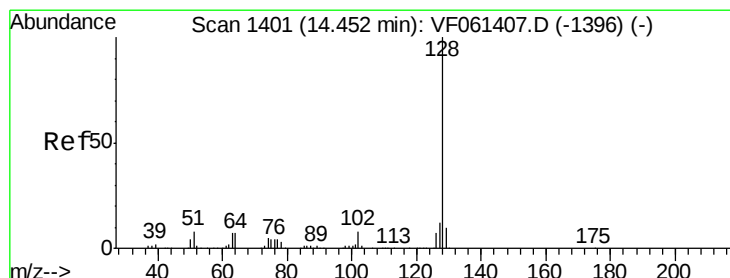
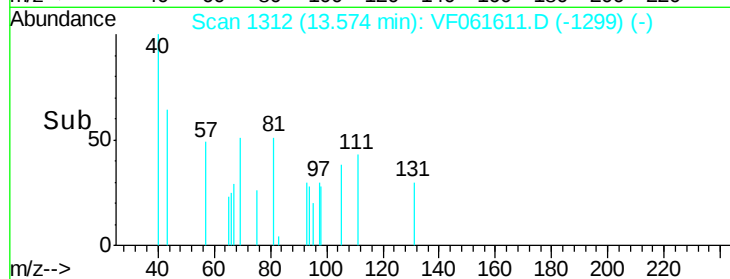
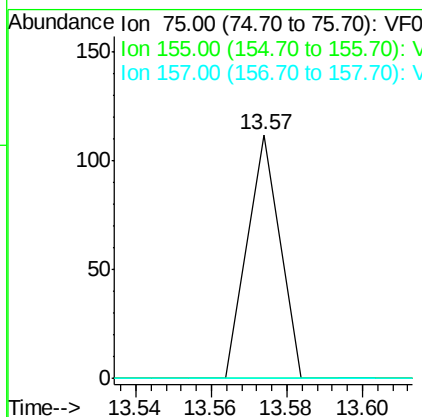
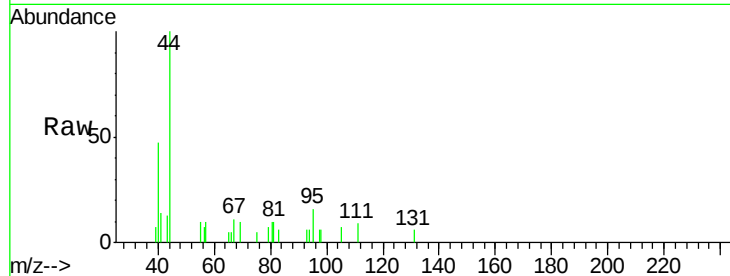




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 154.710 ug/l
 RT: 13.57 min Scan# 1312
 Delta R.T. -0.07 min
 Lab File: VF061611.D
 Acq: 12 Feb 2019 16:18

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-E

Tot Ion	Ratio	Lower	Upper
75	100		
155	0.0	49.7	149.1#
157	0.0	61.4	184.1#



#95
 Naphthalene
 Concen: 11.551 ug/l
 RT: 14.43 min Scan# 1399
 Delta R.T. -0.02 min
 Lab File: VF061611.D
 Acq: 12 Feb 2019 16:18

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.5	14.3#
129	0.0	8.4	12.6#

