

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050219\
 Data File : VL033631.D
 Acq On : 2 May 2019 17:03
 Operator : SY/AP
 Sample : K2628-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-3DL

Quant Time: May 03 02:28:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 02 06:29:02 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	919479	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2216814	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2395481	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1953051	10.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.10%

Target Compounds

					Qvalue
3) Chlorodifluoromethane	2.99	51	171507	1.560	ppbv # 80
4) Chloromethane	3.17	50	3654	0.061	ppbv # 80
7) Chloroethane	3.60	64	562	0.027	ppbv # 43
8) Dichlorotetrafluoroethane	3.22	85	4443	0.029	ppbv 100
9) Propene	3.02	41	800	0.025	ppbv # 55
11) Trichlorofluoromethane	4.00	101	8848	0.054	ppbv # 59
12) 1,1,2-Trichlorotrifluoroet	4.55	101	2936	0.026	ppbv 98
13) Ethanol	3.65	45	156660	10.976	ppbv 95
14) Bromoethene	3.79	108	571	0.012	ppbv # 12
15) Acetone	3.91	43	66181	0.591	ppbv 96
16) 1,3-Butadiene	3.36	39	639	0.013	ppbv # 7
18) 1,1-Dichloroethene	4.35	96	819	0.017	ppbv # 48
19) Isopropyl Alcohol	4.03	45	12272	0.160	ppbv # 56
20) Methylene Chloride	4.40	84	7045	0.161	ppbv # 78
21) Allyl Chloride	4.48	41	1095	0.016	ppbv # 1
22) trans-1,2-Dichloroethene	4.96	96	938	0.020	ppbv # 73
23) Vinyl Acetate	5.15	43	3870	0.023	ppbv # 82
24) 1,1-Dichloroethane	5.08	63	1998	0.016	ppbv # 88
25) Ethyl Acetate	5.78	43	23739	0.112	ppbv # 91
26) Hexane	5.77	57	18851	0.211	ppbv # 50
27) Carbon Disulfide	4.63	76	1681	0.016	ppbv # 1
28) Methyl tert-Butyl Ether	5.12	73	2119	0.014	ppbv # 84
29) Chloroform	5.84	83	2836	0.017	ppbv 97
32) 1,1,1-Trichloroethane	6.61	97	2413	0.014	ppbv # 36
34) 2-Butanone	5.33	43	1642	0.012	ppbv # 53
35) Carbon Tetrachloride	7.13	117	4575	0.026	ppbv # 88
36) Benzene	7.00	78	2320	0.012	ppbv # 73
37) 1,2-Dichloroethane	6.41	62	2589	0.021	ppbv # 84
39) 1,2-Dichloropropane	7.28	63	586802	8.238	ppbv # 23
42) Bromodichloromethane	7.91	83	1884	0.011	ppbv # 1
43) Methyl Methacrylate	8.13	69	856	0.012	ppbv # 1
51) 2-Hexanone	10.30	43	2554	0.014	ppbv # 77
53) Toluene	9.94	91	147164	0.617	ppbv 96
57) Chlorobenzene	12.30	112	4507	0.025	ppbv # 70
59) m/p-Xylene	13.15	91	3032	0.013	ppbv # 100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2204	0.012	ppbv # 1
72) 4-Ethyltoluene	16.00	105	3362	0.012	ppbv # 78
75) 1,3-Dichlorobenzene	17.15	146	3046	0.016	ppbv # 1
76) 1,4-Dichlorobenzene	17.30	146	2627	0.015	ppbv # 4
77) 1,2-Dichlorobenzene	17.98	146	2011	0.012	ppbv # 23
78) Hexachloro-1,3-Butadiene	23.54	225	3677	0.028	ppbv # 1

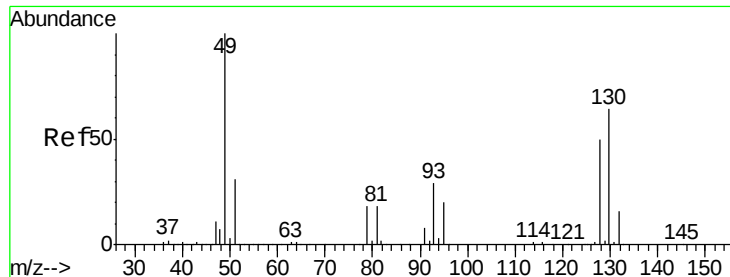
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050219\
Data File : VL033631.D
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QLast Update : Thu May 02 06:29:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	22.40	128	4474	0.016	ppbv #	84
80) Naphthalene,2-methyl-	25.11	142	3882	0.032	ppbv #	91
81) 1,2,4-Trichlorobenzene	22.13	180	2403	0.015	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

A-3DL

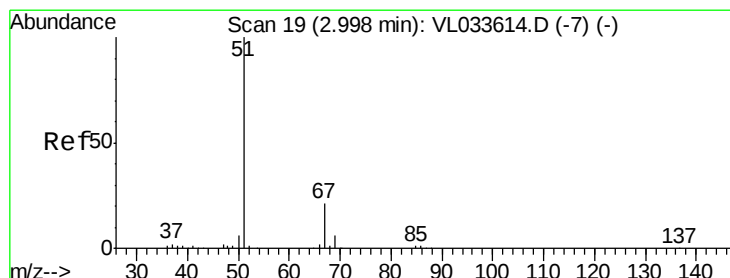
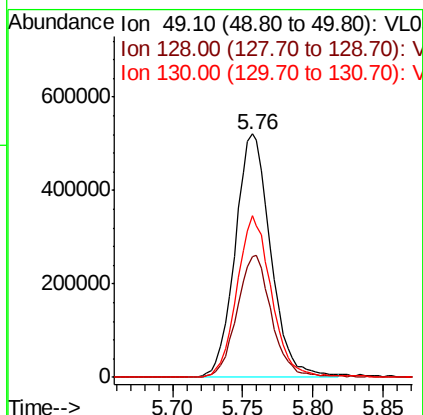
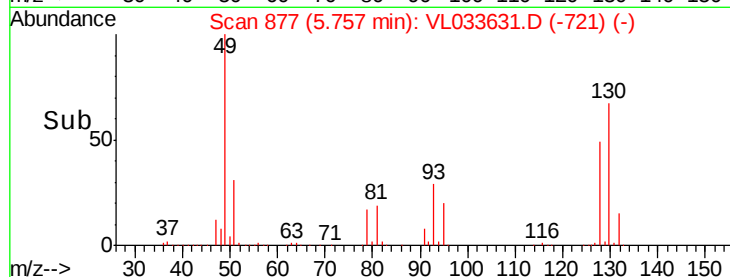
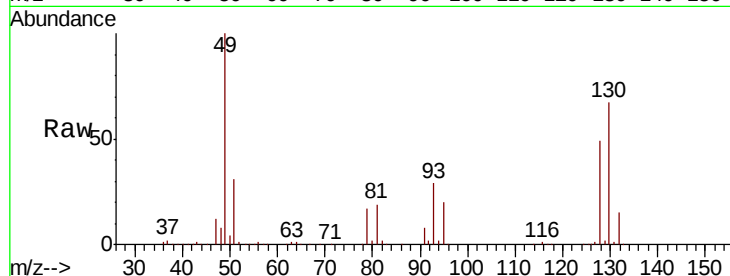
Tgt Ion: 49 Resp: 919479

Ion Ratio Lower Upper

49 100

128 49.4 25.0 75.0

130 64.9 31.9 95.9



#3

Chlorodifluoromethane

Concen: 1.560 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.01 min

Lab File: VL033631.D

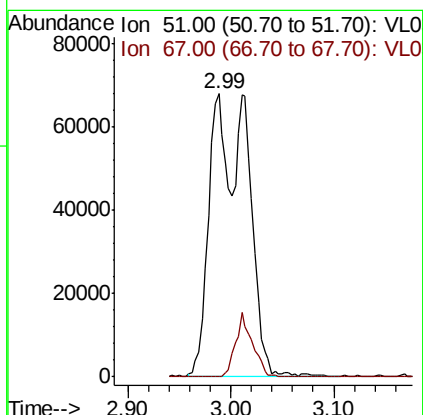
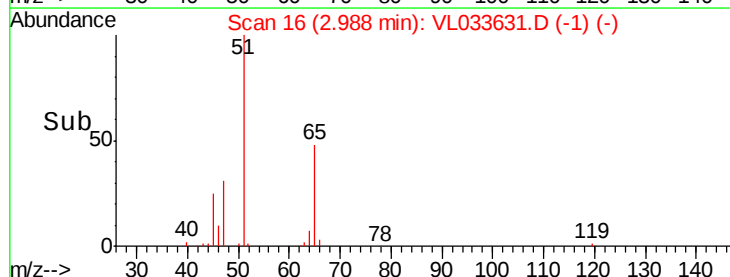
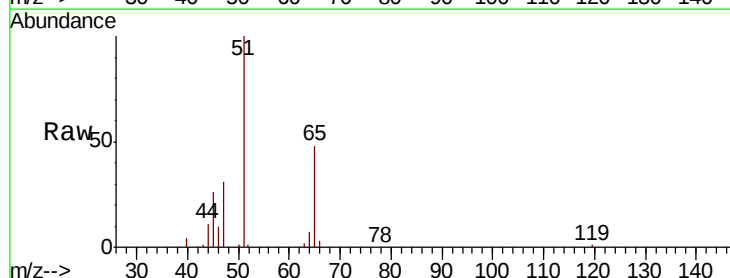
Acq: 2 May 2019 17:03

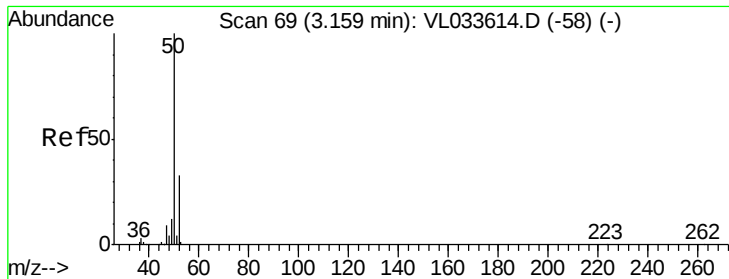
Tgt Ion: 51 Resp: 171507

Ion Ratio Lower Upper

51 100

67 10.2 15.6 23.4#





#4

Chloromethane

Concen: 0.061 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

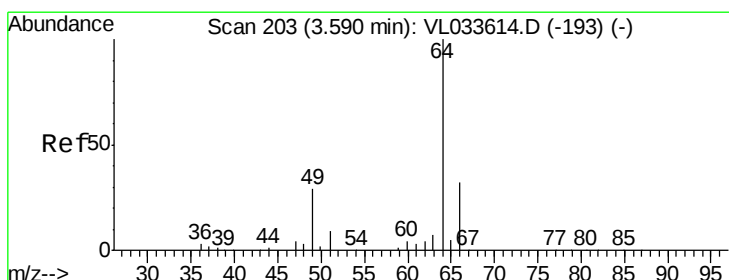
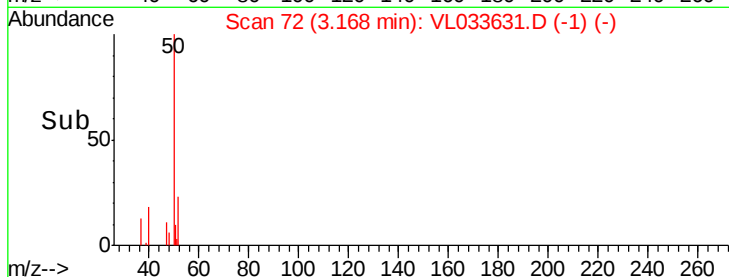
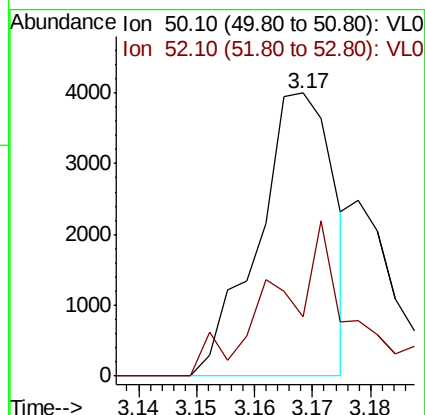
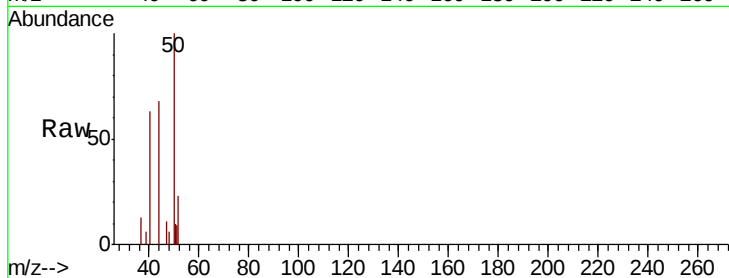
A-3DL

Tgt Ion: 50 Resp: 3654

Ion Ratio Lower Upper

50 100

52 21.1 26.0 39.0#



#7

Chloroethane

Concen: 0.027 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL033631.D

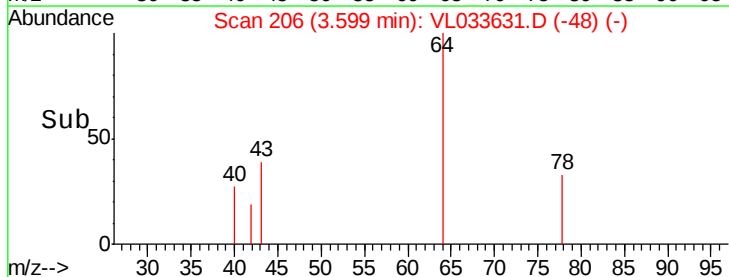
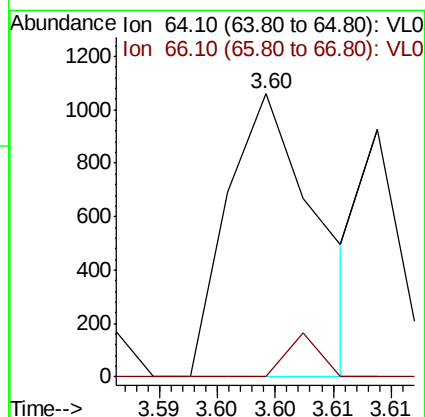
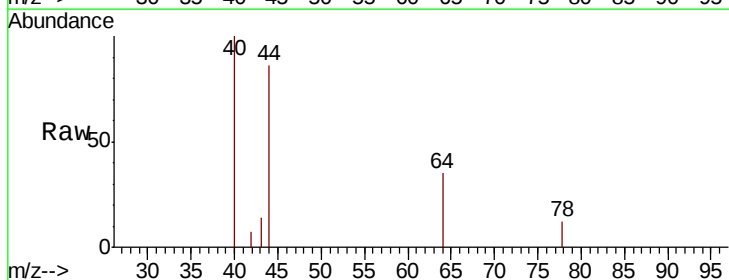
Acq: 2 May 2019 17:03

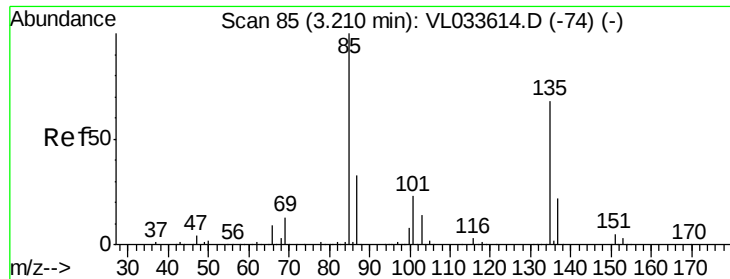
Tgt Ion: 64 Resp: 562

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#





#8

Dichlorotetrafluoroethane

Concen: 0.029 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

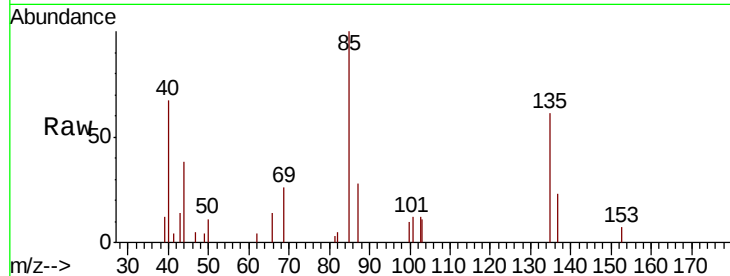
A-3DL

Tgt Ion: 85 Resp: 4443

Ion Ratio Lower Upper

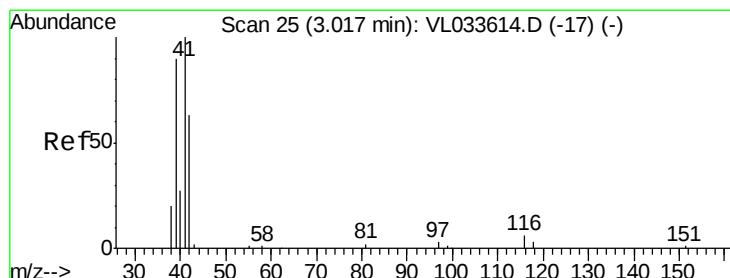
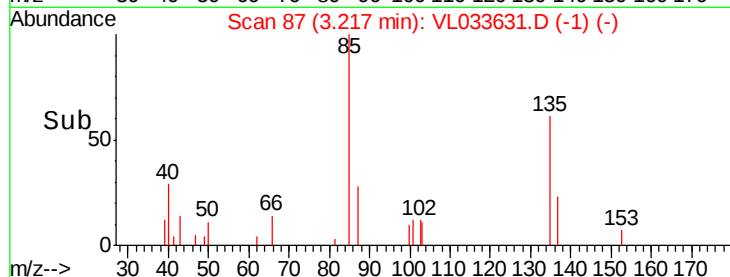
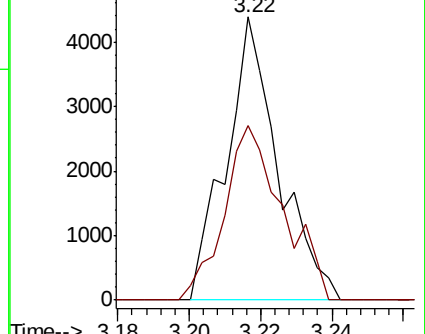
85 100

135 68.8 55.0 82.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.025 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.01 min

Lab File: VL033631.D

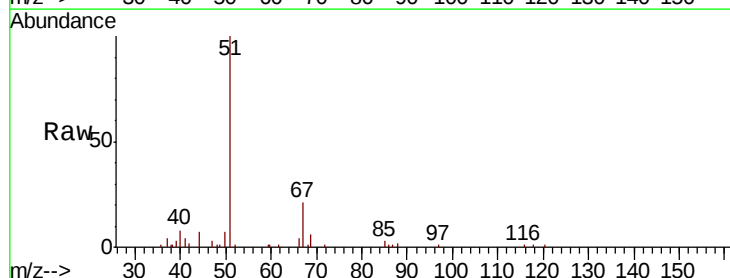
Acq: 2 May 2019 17:03

Tgt Ion: 41 Resp: 800

Ion Ratio Lower Upper

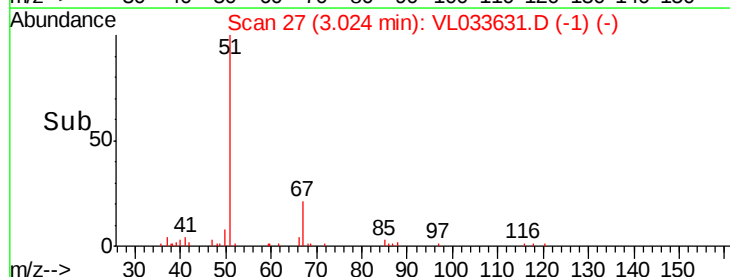
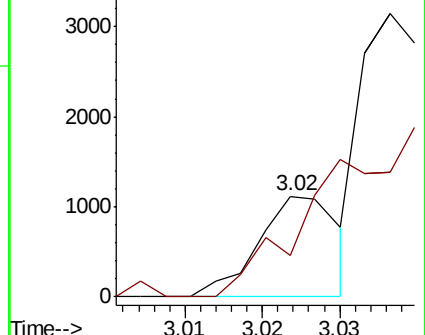
41 100

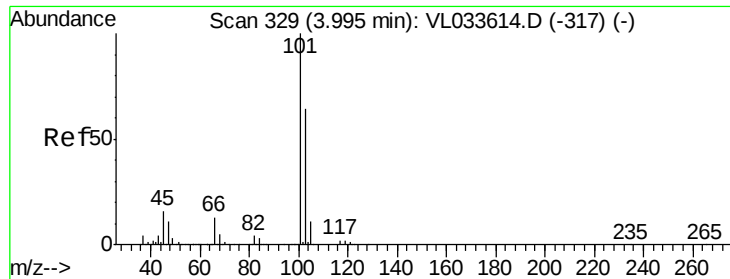
42 42.1 66.0 99.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

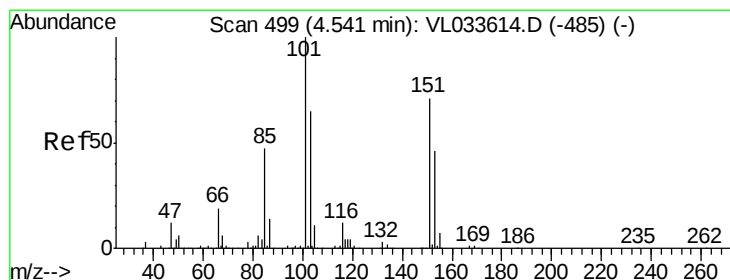
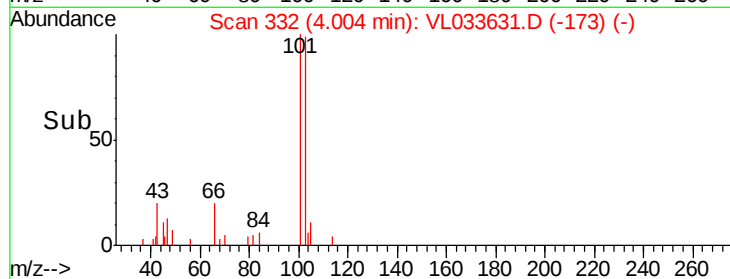
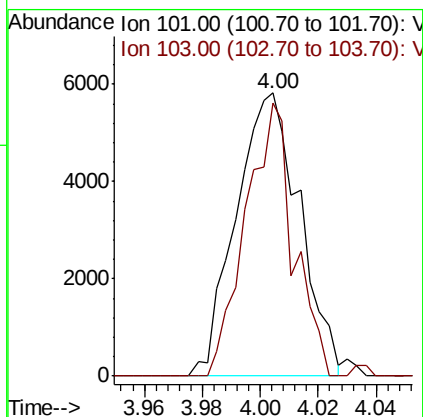
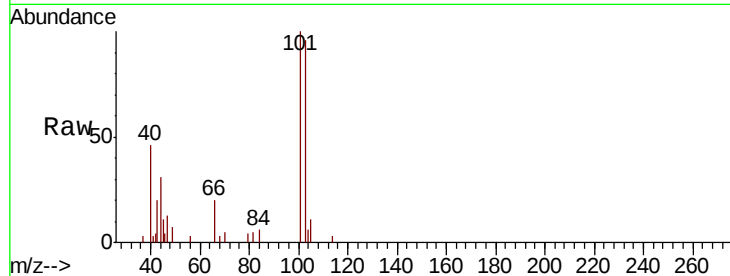




#11
 Trichlorofluoromethane
 Concen: 0.054 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL033631.D
 Acq: 2 May 2019 17:03

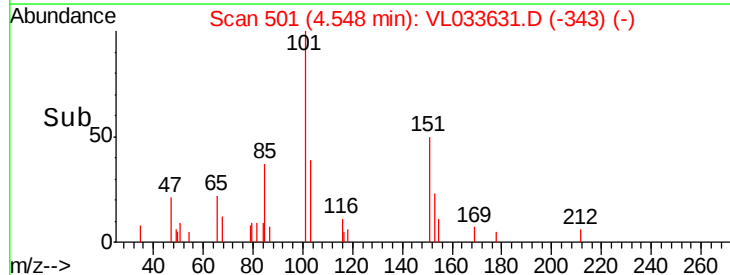
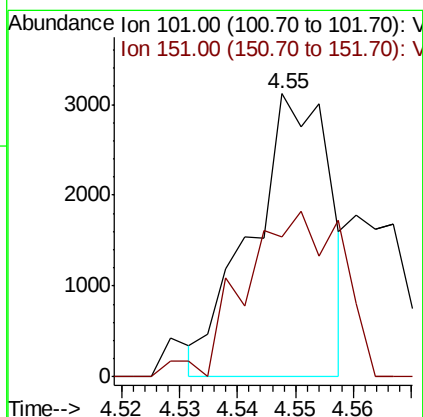
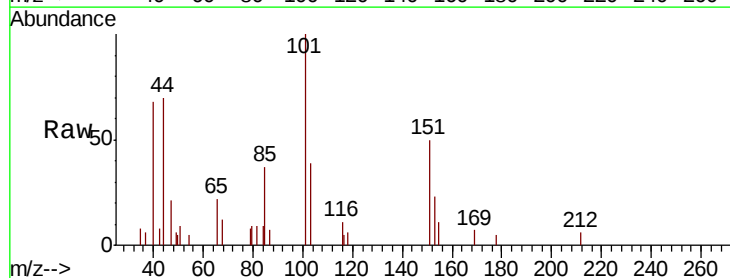
Instrument :
 MSVOA_L
 ClientSampleId :
 A-3DL

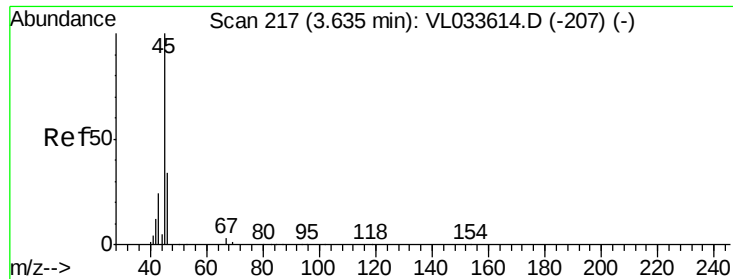
Tgt Ion:101 Resp: 8848
 Ion Ratio Lower Upper
 101 100
 103 96.4 51.2 76.8#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.026 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VL033631.D
 Acq: 2 May 2019 17:03

Tgt Ion:101 Resp: 2936
 Ion Ratio Lower Upper
 101 100
 151 76.0 59.2 88.8

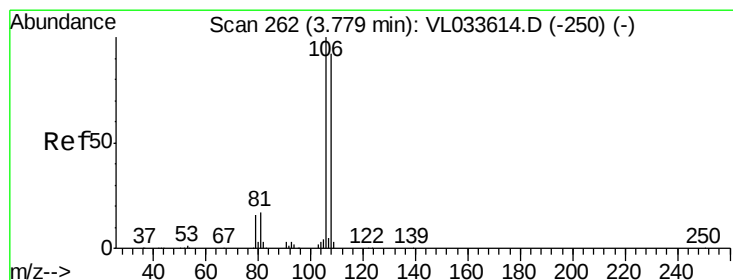
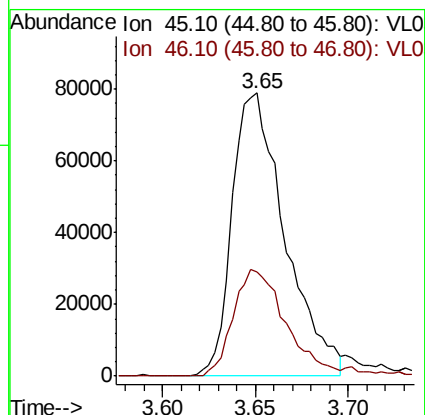
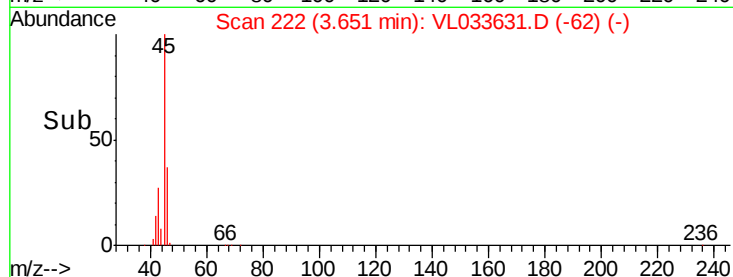
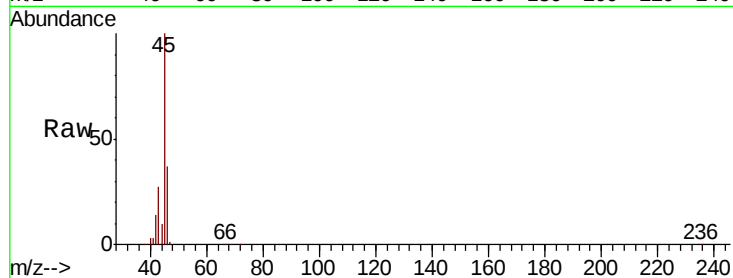




#13
Ethanol
Concen: 10.976 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.02 min
Lab File: VL033631.D
Acq: 2 May 2019 17:03

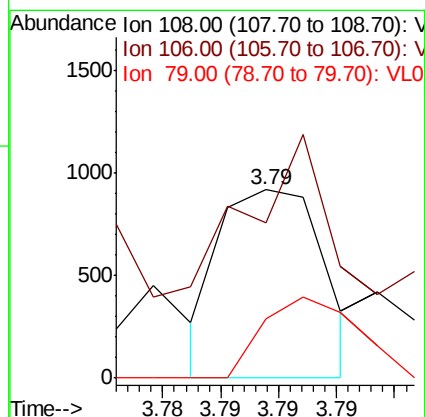
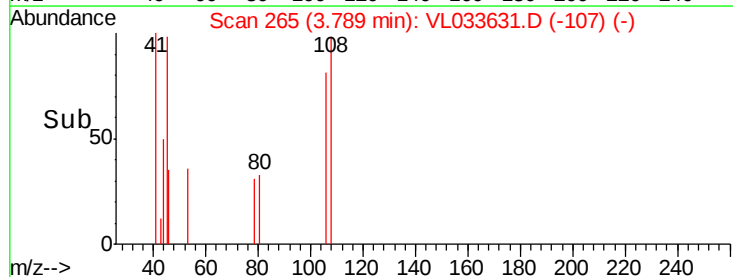
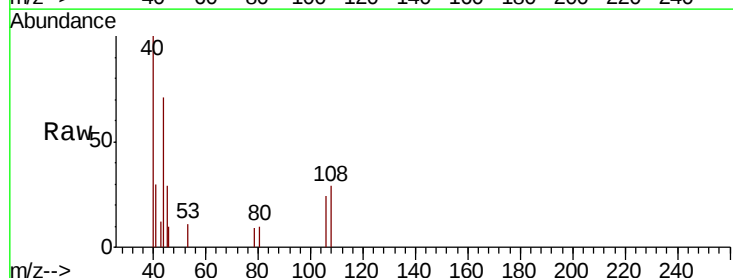
Instrument :
MSVOA_L
ClientSampled :
A-3DL

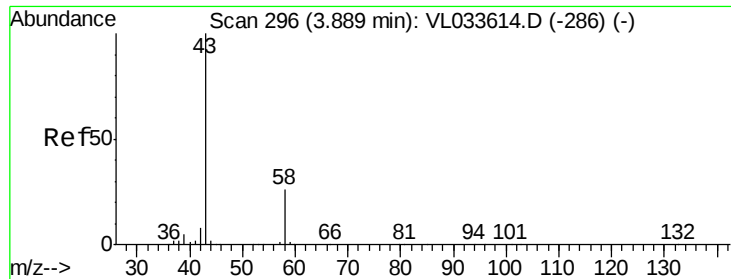
Tgt Ion: 45 Resp: 156660
Ion Ratio Lower Upper
45 100
46 39.4 14.6 58.2



#14
Bromoethene
Concen: 0.012 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.01 min
Lab File: VL033631.D
Acq: 2 May 2019 17:03

Tgt Ion: 108 Resp: 571
Ion Ratio Lower Upper
108 100
106 204.0 84.6 127.0#
79 39.4 14.4 21.6#





#15

Acetone

Concen: 0.591 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.02 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

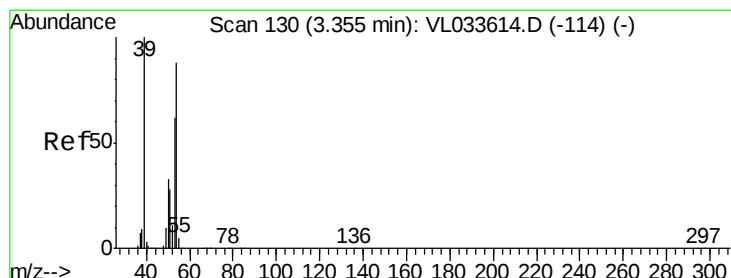
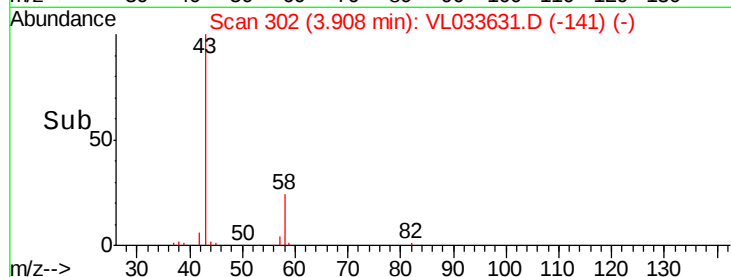
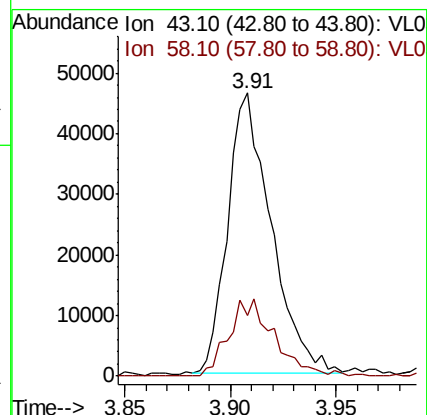
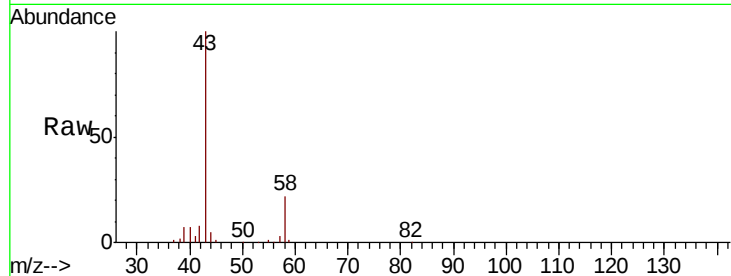
A-3DL

Tgt Ion: 43 Resp: 66181

Ion Ratio Lower Upper

43 100

58 28.7 21.2 31.8



#16

1,3-Butadiene

Concen: 0.013 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.01 min

Lab File: VL033631.D

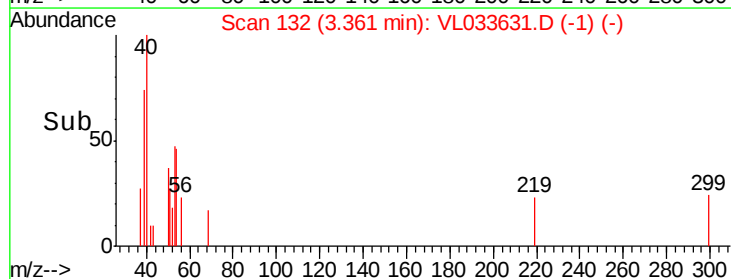
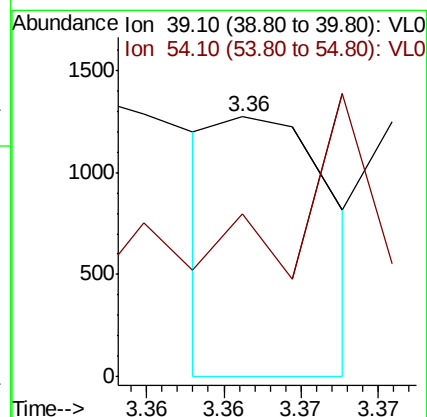
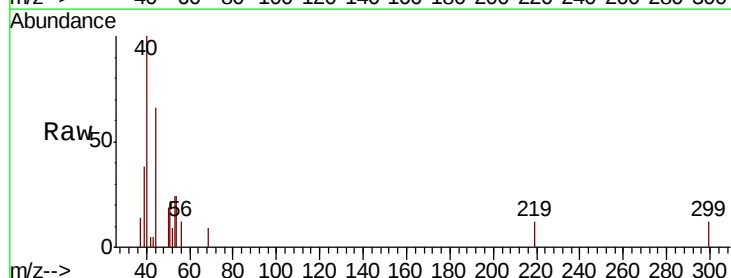
Acq: 2 May 2019 17:03

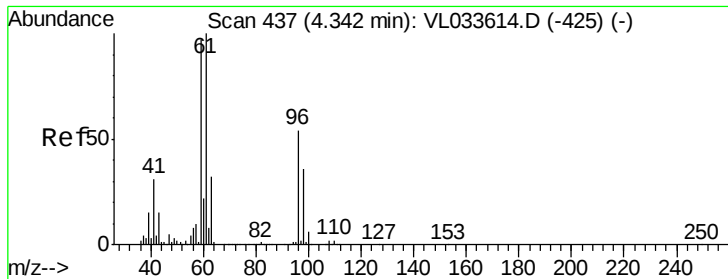
Tgt Ion: 39 Resp: 639

Ion Ratio Lower Upper

39 100

54 0.0 68.4 102.6#





#18

1,1-Dichloroethene

Concen: 0.017 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampled :

A-3DL

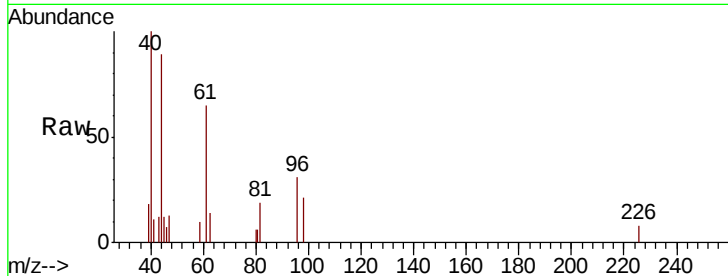
Tgt Ion: 96 Resp: 819

Ion Ratio Lower Upper

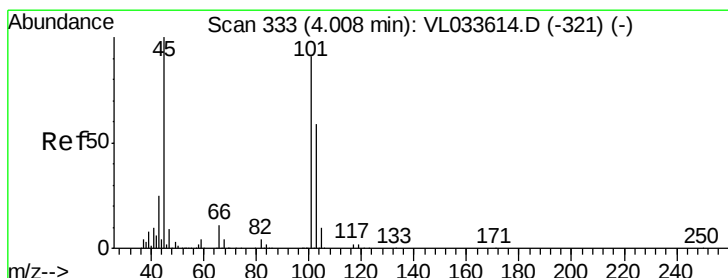
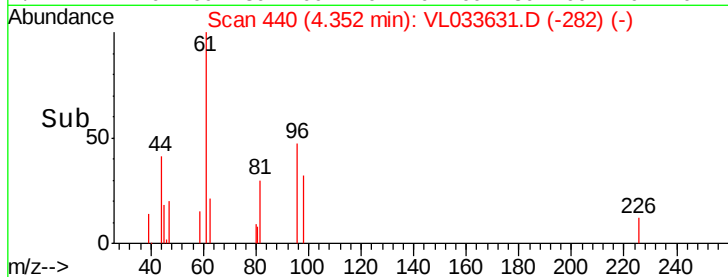
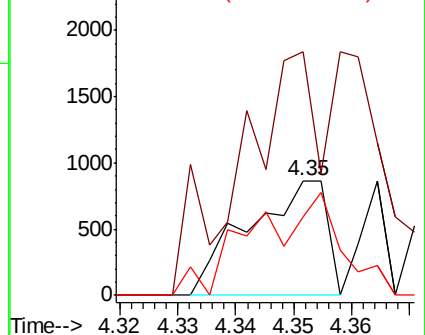
96 100

61 97.7 147.3 220.9#

98 43.9 53.6 80.4#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 0.160 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.02 min

Lab File: VL033631.D

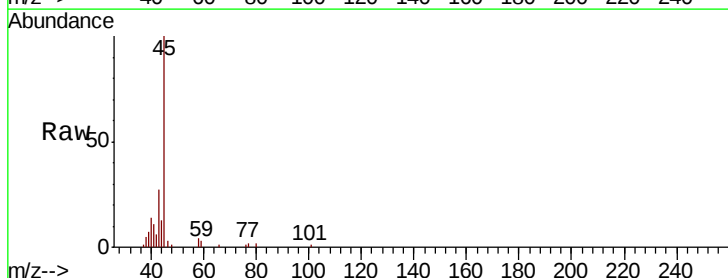
Acq: 2 May 2019 17:03

Tgt Ion: 45 Resp: 12272

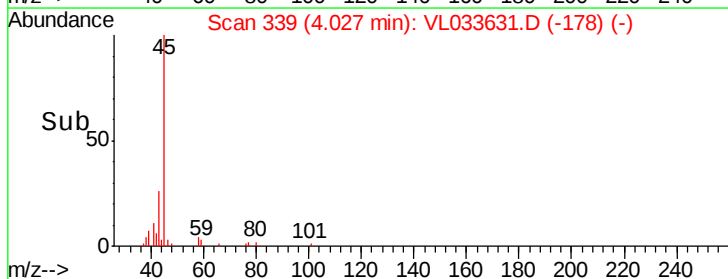
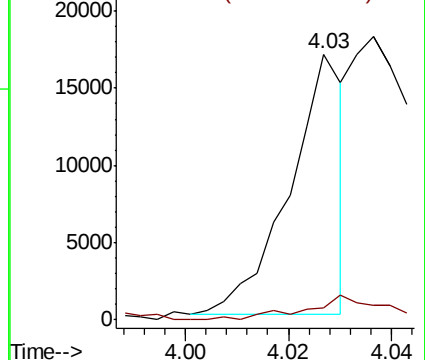
Ion Ratio Lower Upper

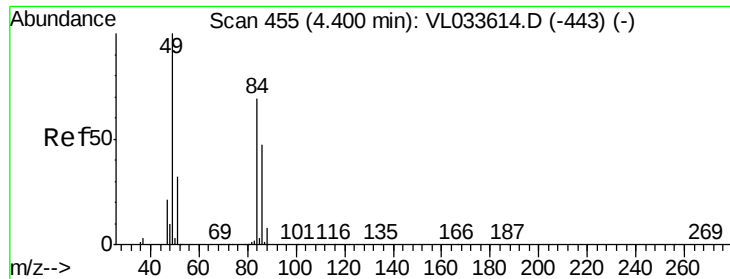
45 100

58 17.5 1.8 2.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#20

Methylene Chloride

Concen: 0.161 ppbv

RT: 4.40 min Scan# 456

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

A-3DL

Tgt Ion: 84 Resp: 7045

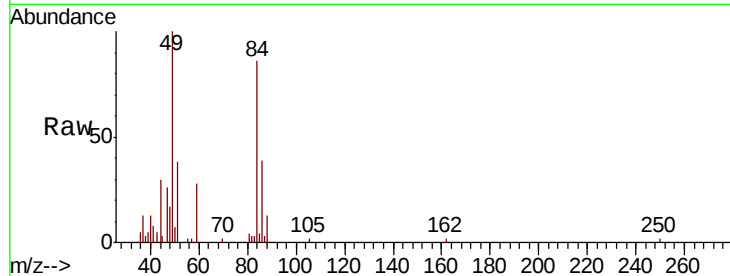
Ion Ratio Lower Upper

84 100

49 114.1 116.2 174.2#

51 44.3 37.0 55.6

86 45.5 54.0 81.0#

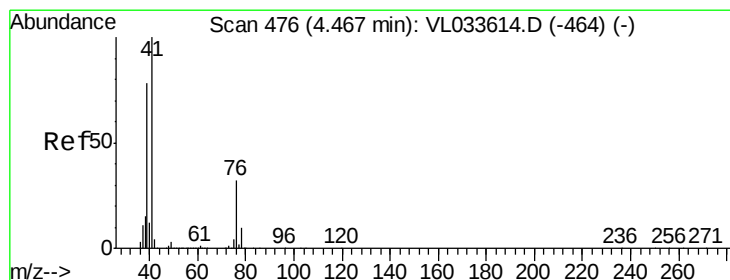
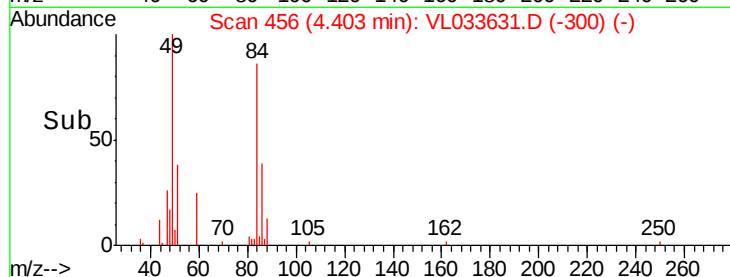
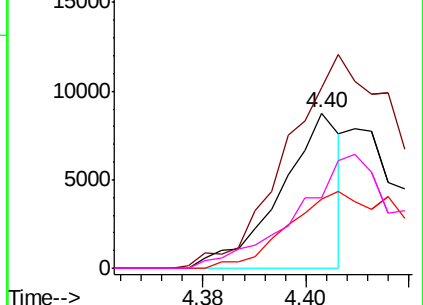


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 0.016 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

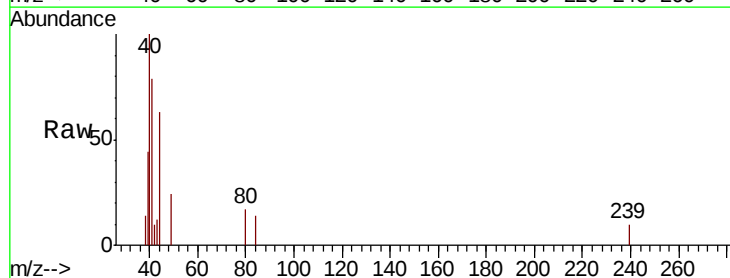
Tgt Ion: 41 Resp: 1095

Ion Ratio Lower Upper

41 100

76 64.7 25.0 37.6#

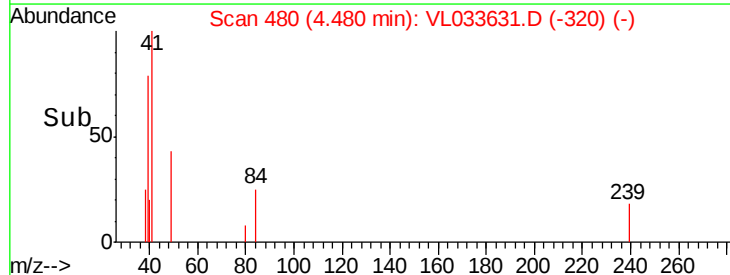
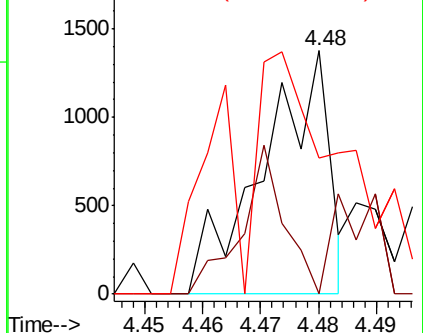
39 190.8 64.6 96.8#

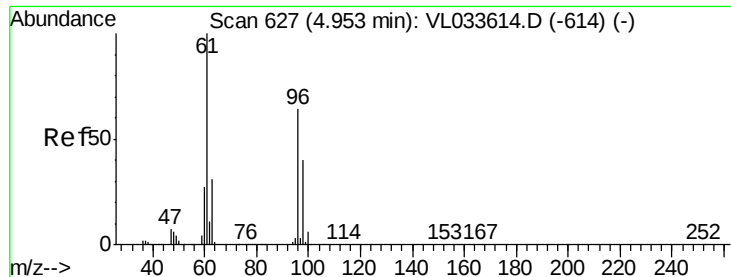


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.020 ppbv

RT: 4.96 min Scan# 629

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampled :

A-3DL

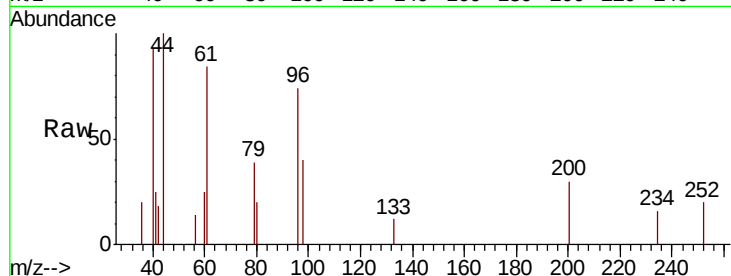
Tgt Ion: 96 Resp: 938

Ion Ratio Lower Upper

96 100

61 112.9 124.9 187.3#

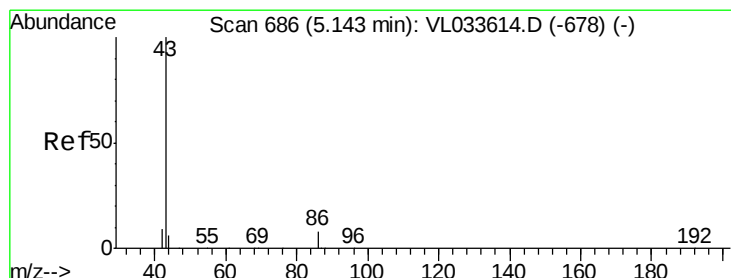
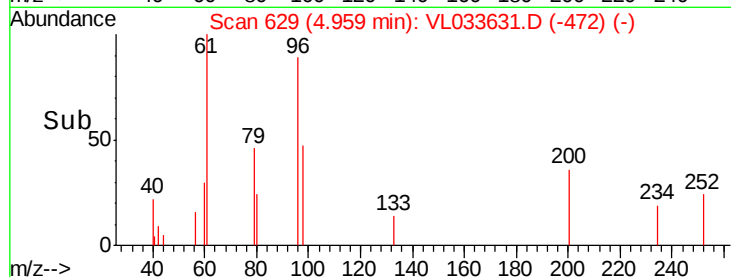
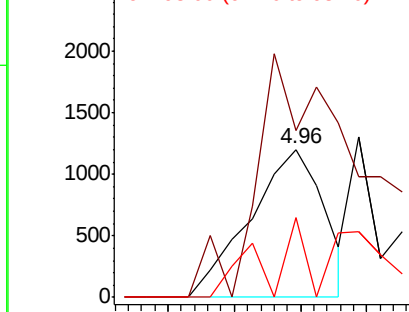
98 53.5 50.5 75.7



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.023 ppbv

RT: 5.15 min Scan# 688

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Tgt Ion: 43 Resp: 3870

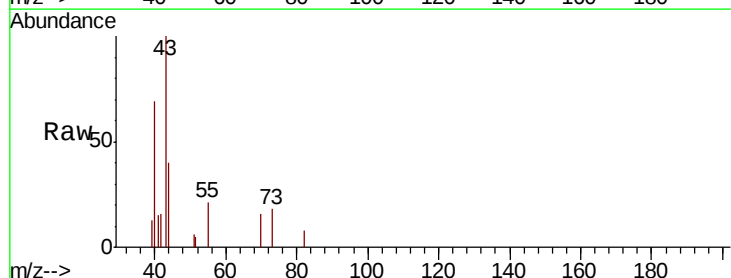
Ion Ratio Lower Upper

43 100

86 0.0 5.8 8.8#

42 0.0 7.8 11.8#

44 6.0 4.6 7.0

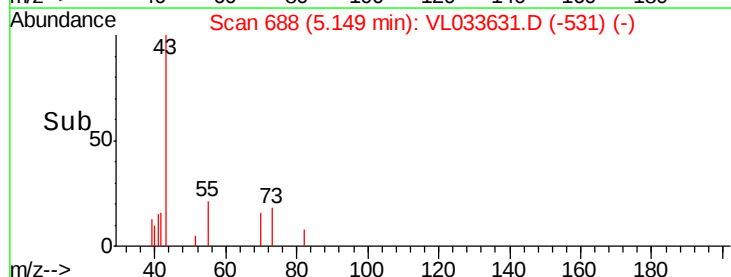
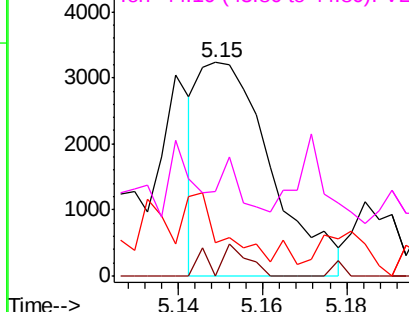


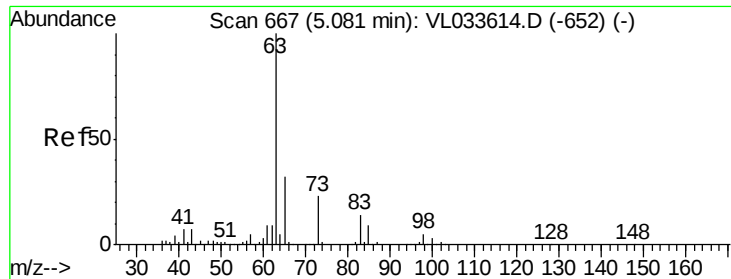
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.016 ppbv

RT: 5.08 min Scan# 668

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampled :

A-3DL

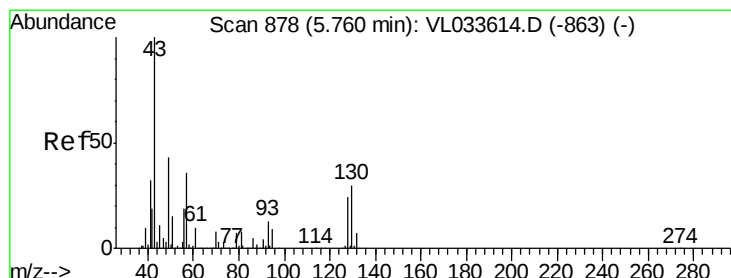
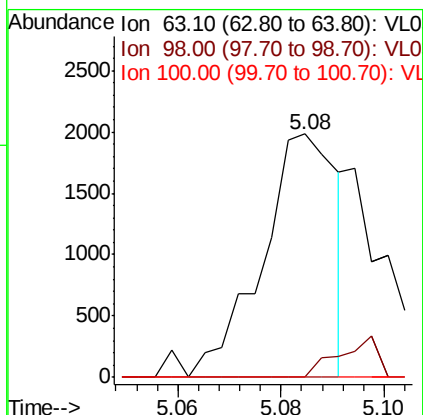
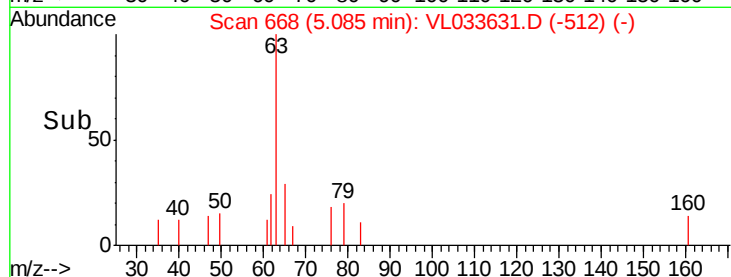
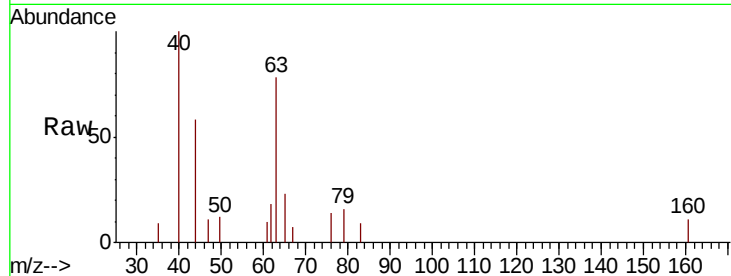
Tgt Ion: 63 Resp: 1998

Ion Ratio Lower Upper

63 100

98 0.0 2.4 7.2#

100 0.0 1.4 4.0#



#25

Ethyl Acetate

Concen: 0.112 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.02 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Tgt Ion: 43 Resp: 23739

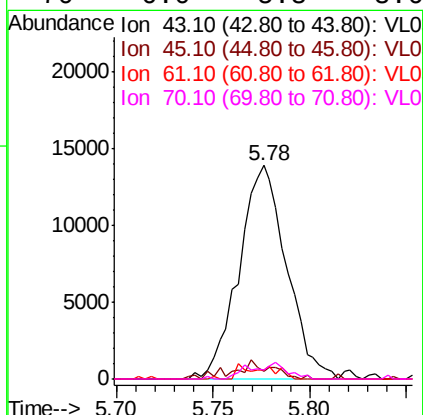
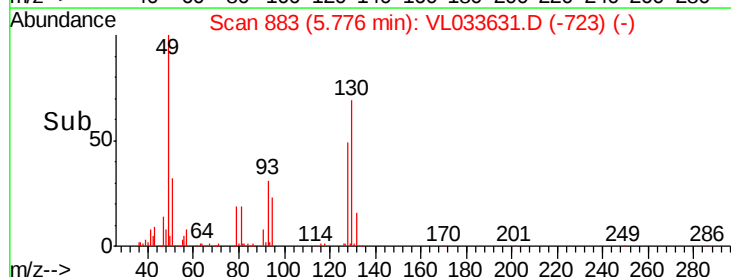
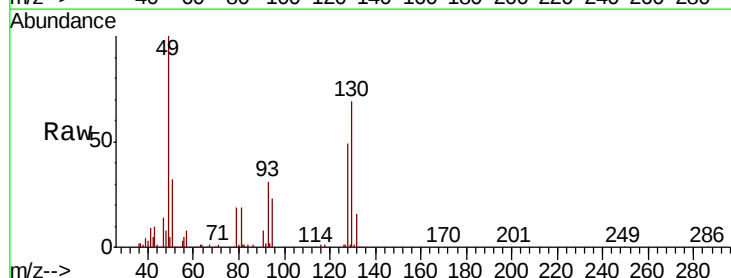
Ion Ratio Lower Upper

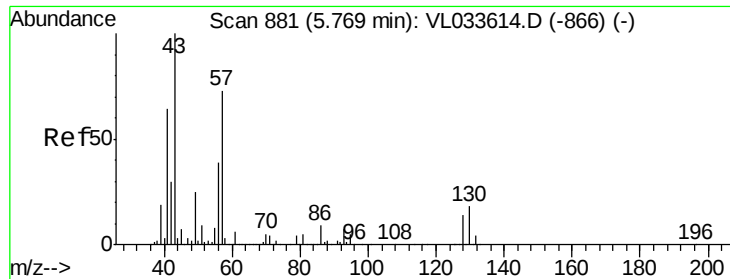
43 100

45 7.2 8.1 12.1#

61 4.6 7.5 11.3#

70 6.0 5.8 8.6

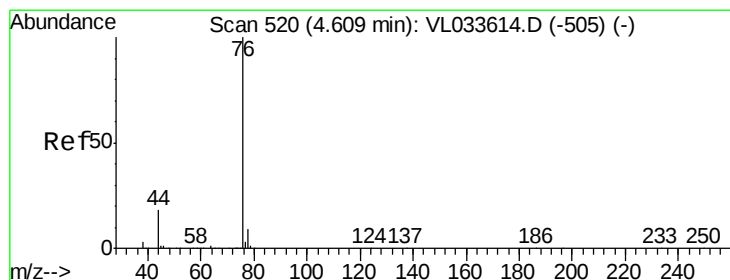
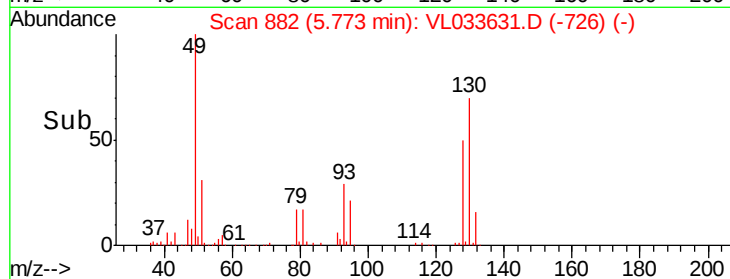
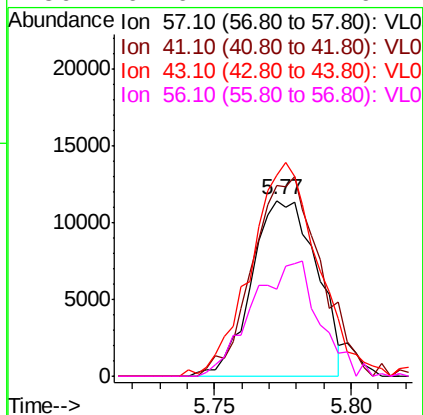
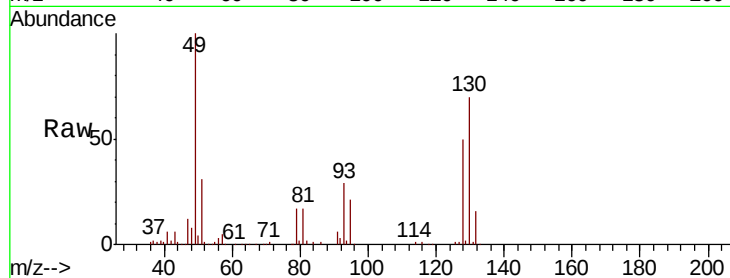




#26
Hexane
Concen: 0.211 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033631.D
Acq: 2 May 2019 17:03

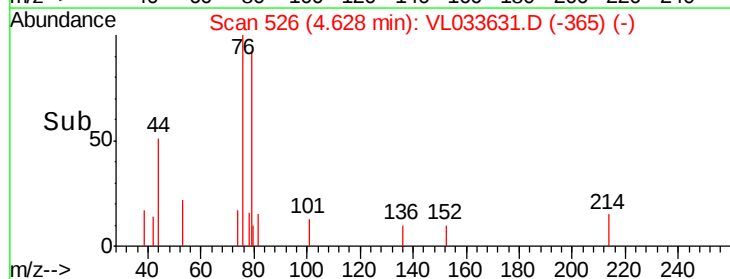
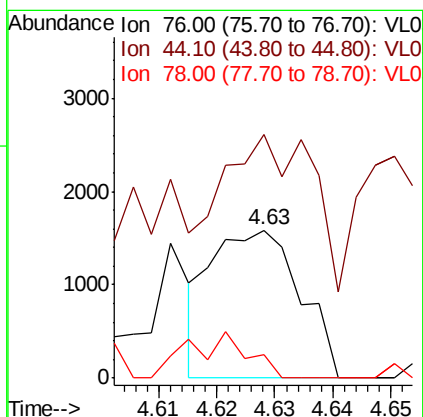
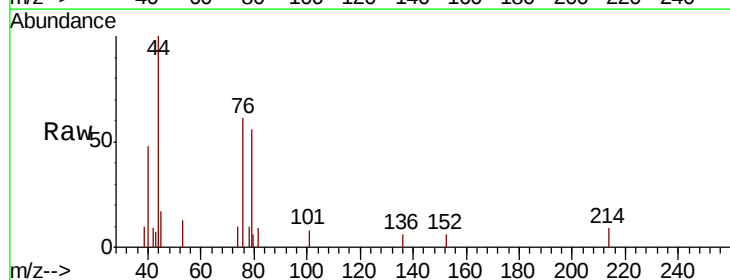
Instrument :
MSVOA_L
ClientSampleId :
A-3DL

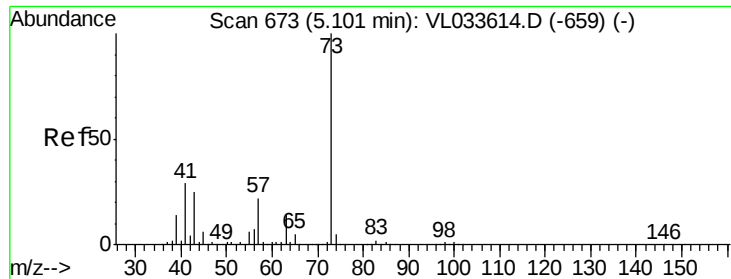
Tgt Ion: 57 Resp: 18851
Ion Ratio Lower Upper
57 100
41 120.5 70.6 106.0#
43 127.8 186.0 279.0#
56 67.6 42.7 64.1#



#27
Carbon Disulfide
Concen: 0.016 ppbv
RT: 4.63 min Scan# 526
Delta R.T. 0.02 min
Lab File: VL033631.D
Acq: 2 May 2019 17:03

Tgt Ion: 76 Resp: 1681
Ion Ratio Lower Upper
76 100
44 193.3 14.3 21.5#
78 25.0 7.5 11.3#





#28

Methyl tert-Butyl Ether

Concen: 0.014 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.02 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

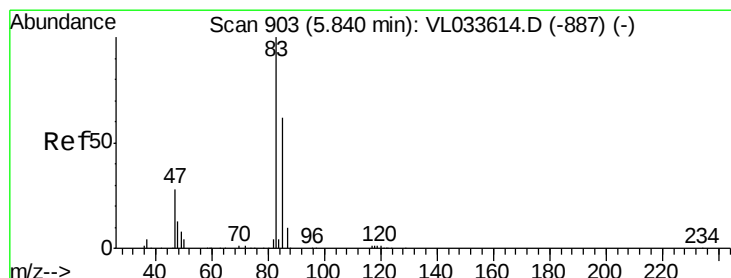
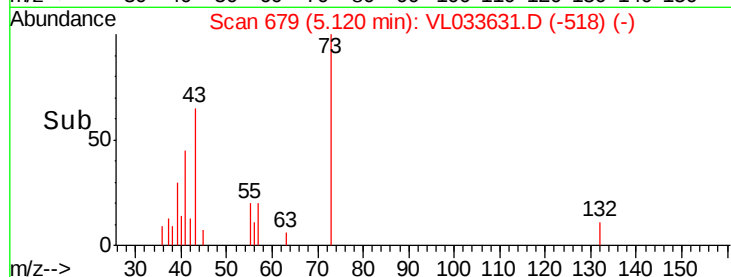
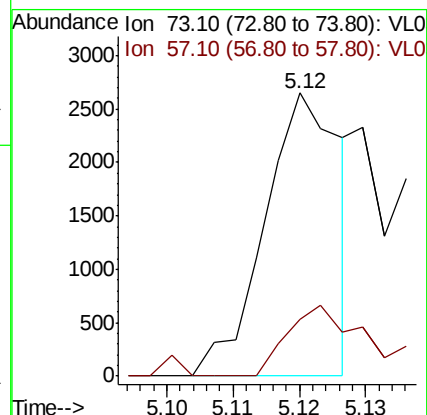
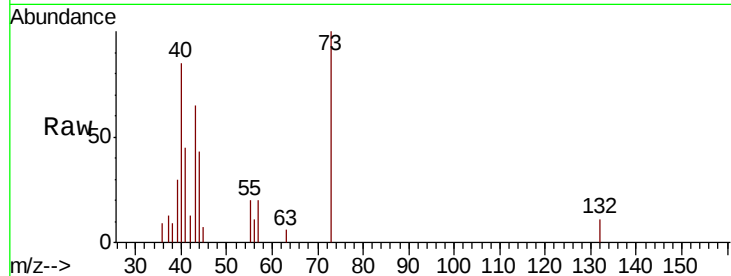
A-3DL

Tgt Ion: 73 Resp: 2119

Ion Ratio Lower Upper

73 100

57 29.8 17.8 26.8#



#29

Chloroform

Concen: 0.017 ppbv

RT: 5.84 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL033631.D

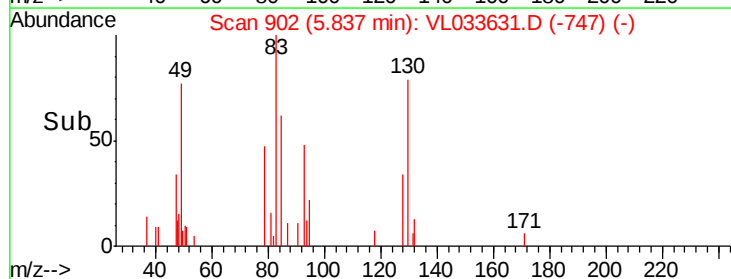
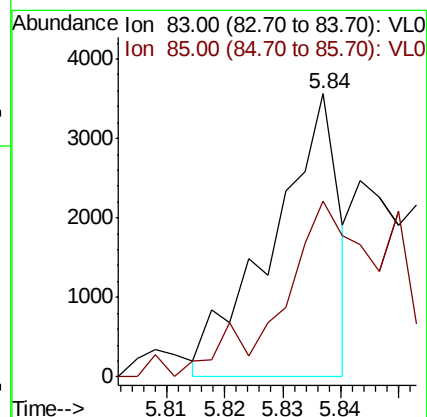
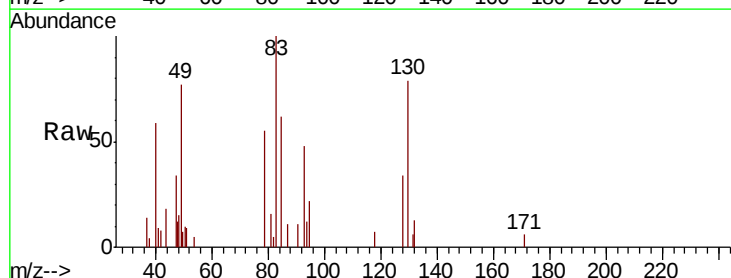
Acq: 2 May 2019 17:03

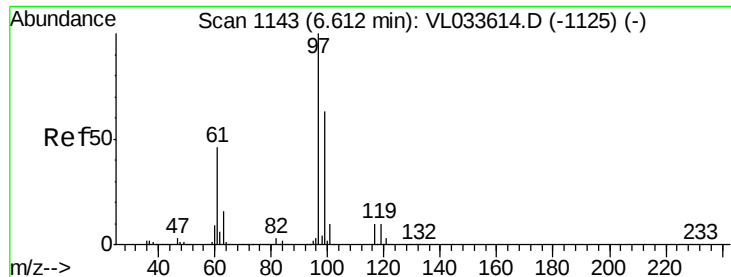
Tgt Ion: 83 Resp: 2836

Ion Ratio Lower Upper

83 100

85 60.1 49.9 74.9





#32

1,1,1-Trichloroethane

Concen: 0.014 ppbv

RT: 6.61 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

A-3DL

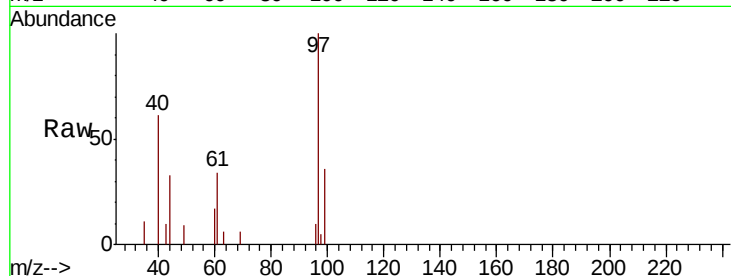
Tgt Ion: 97 Resp: 2413

Ion Ratio Lower Upper

97 100

99 111.9 51.9 77.9#

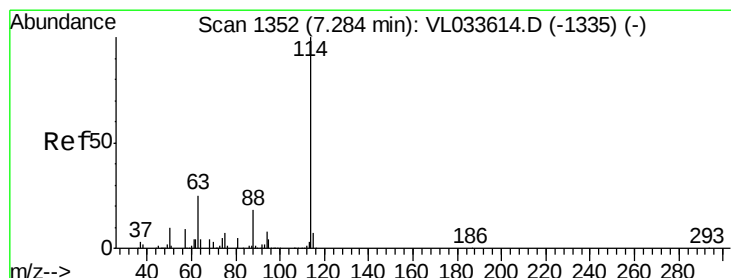
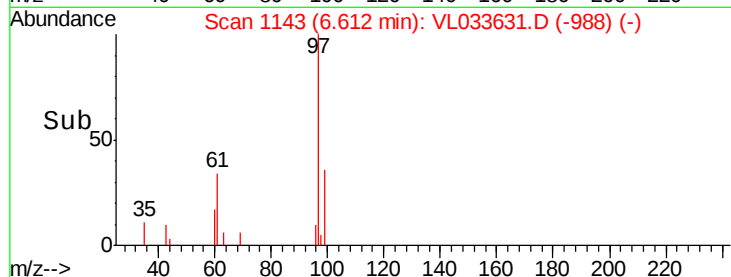
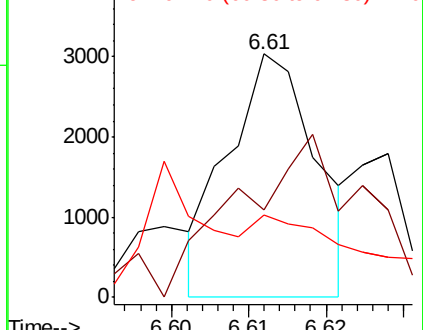
61 0.0 38.2 57.2#



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

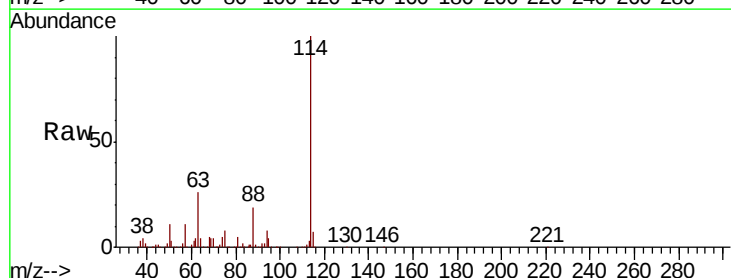
Tgt Ion: 114 Resp: 2216814

Ion Ratio Lower Upper

114 100

63 26.5 21.1 31.7

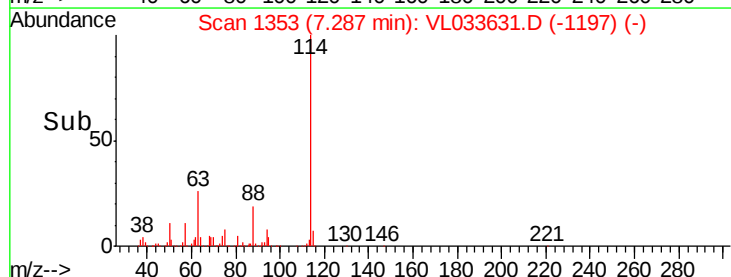
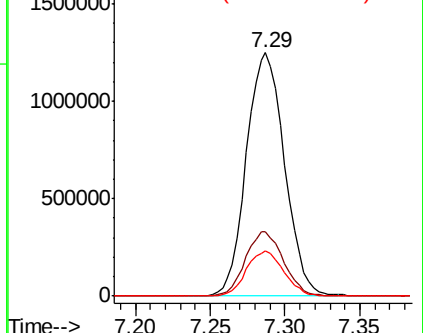
88 18.2 14.2 21.4

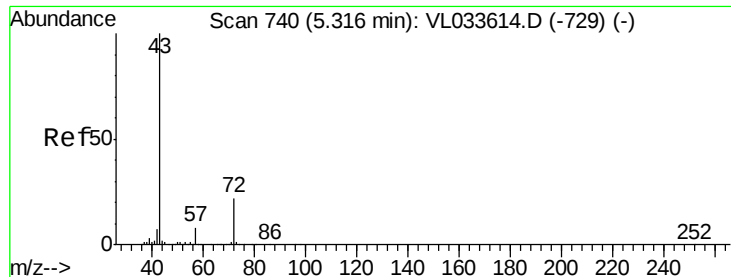


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.012 ppbv

RT: 5.33 min Scan# 743

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

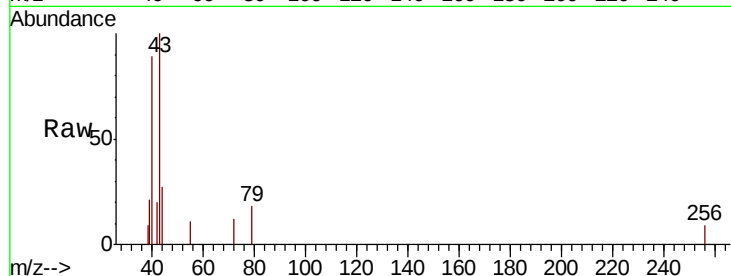
A-3DL

Tgt Ion: 43 Resp: 1642

Ion Ratio Lower Upper

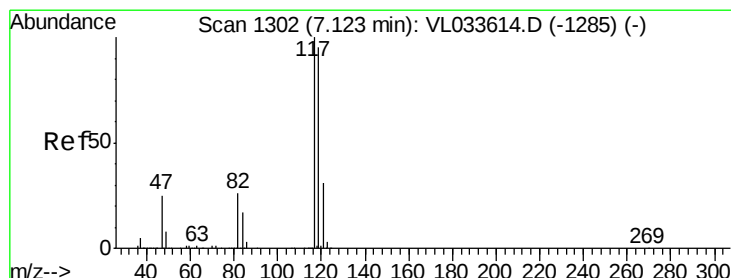
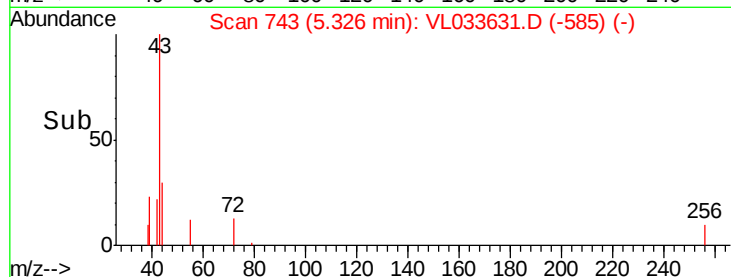
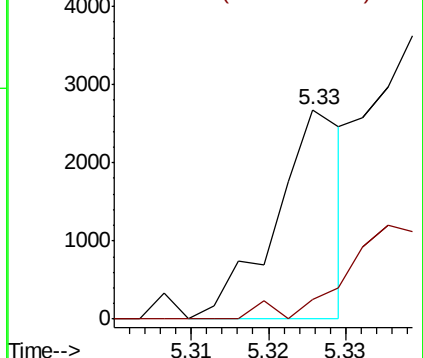
43 100

72 0.0 17.8 26.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.026 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

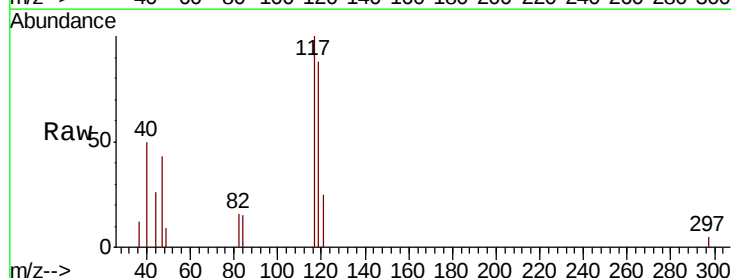
Tgt Ion: 117 Resp: 4575

Ion Ratio Lower Upper

117 100

119 87.8 76.2 114.4

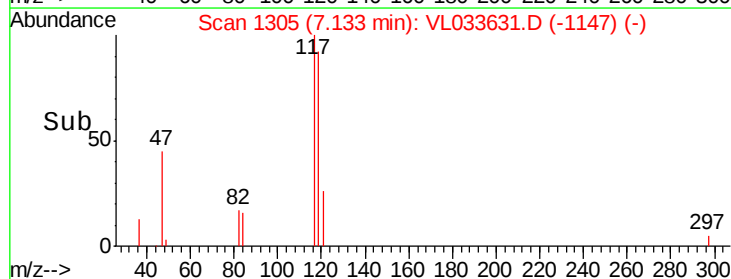
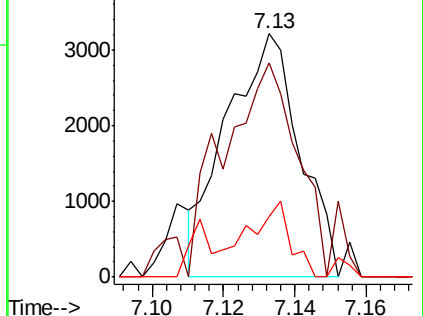
121 17.1 24.9 37.3#

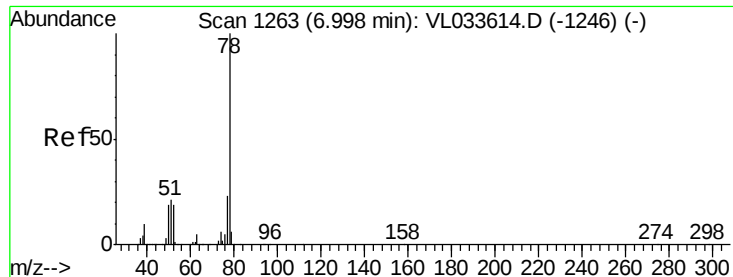


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.012 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

A-3DL

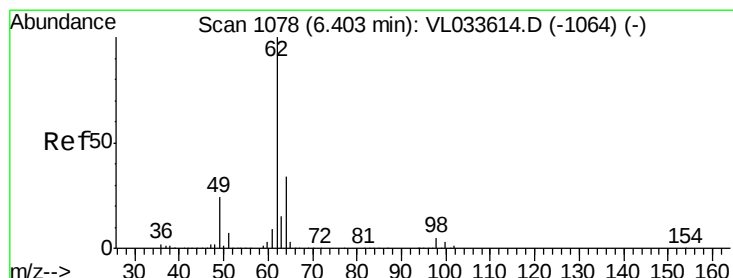
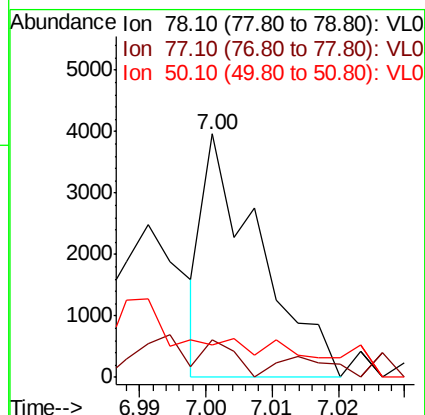
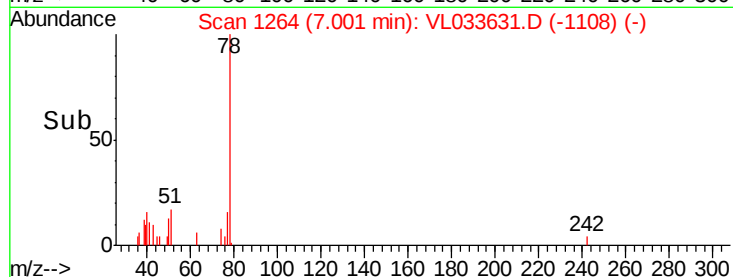
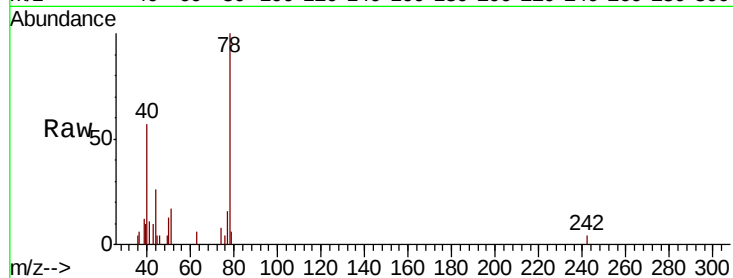
Tgt Ion: 78 Resp: 2320

Ion Ratio Lower Upper

78 100

77 11.0 18.1 27.1#

50 4.9 15.1 22.7#



#37

1,2-Dichloroethane

Concen: 0.021 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VL033631.D

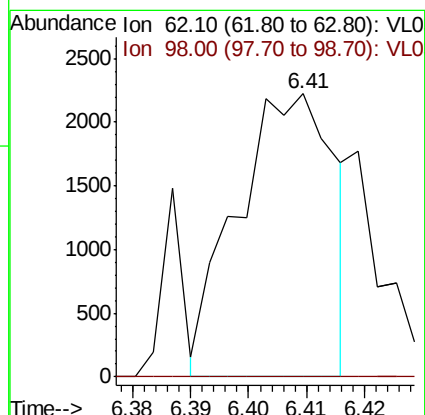
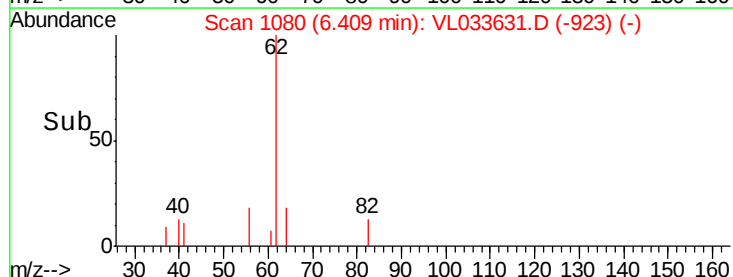
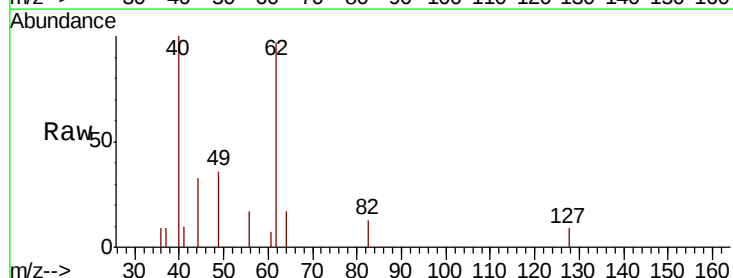
Acq: 2 May 2019 17:03

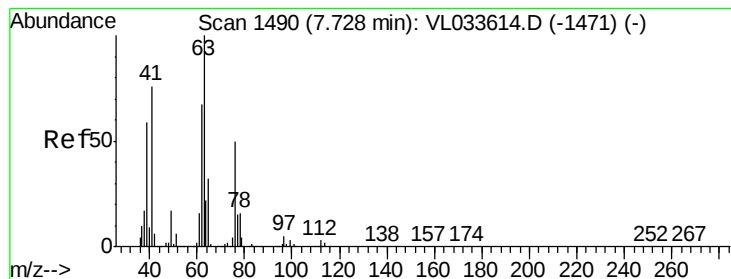
Tgt Ion: 62 Resp: 2589

Ion Ratio Lower Upper

62 100

98 0.0 4.4 6.6#





#39

1,2-Dichloropropane

Concen: 8.238 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.44 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampled :

A-3DL

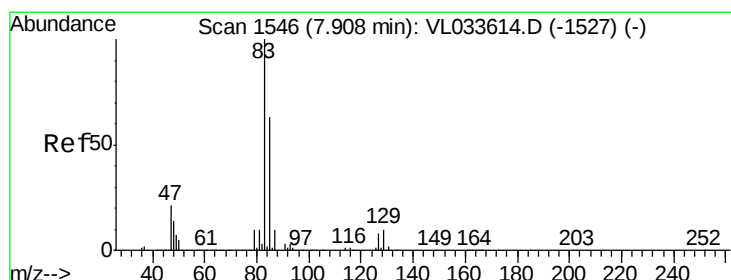
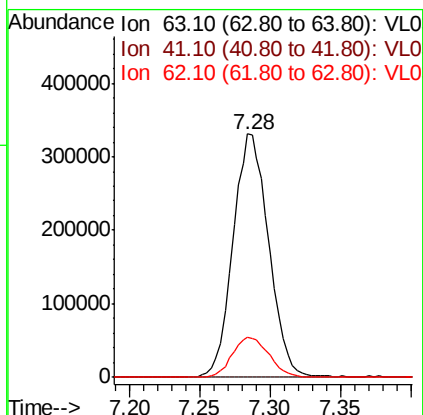
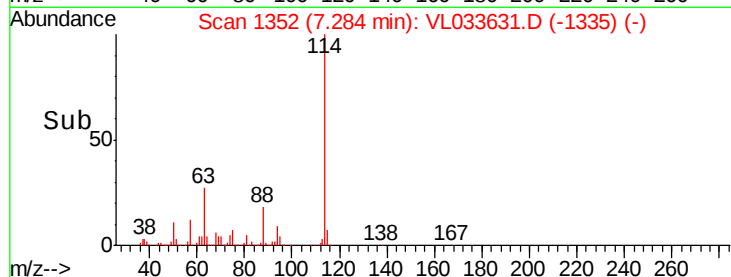
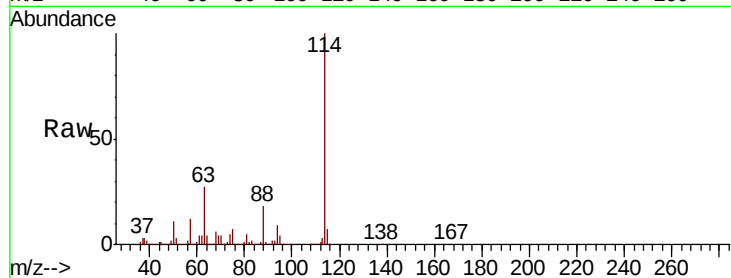
Tgt Ion: 63 Resp: 586802

Ion Ratio Lower Upper

63 100

41 0.0 60.9 91.3#

62 16.4 53.3 79.9#



#42

Bromodichloromethane

Concen: 0.011 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

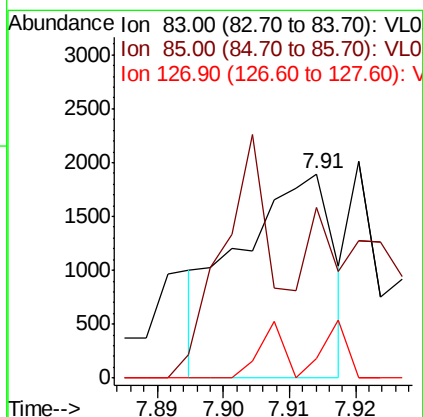
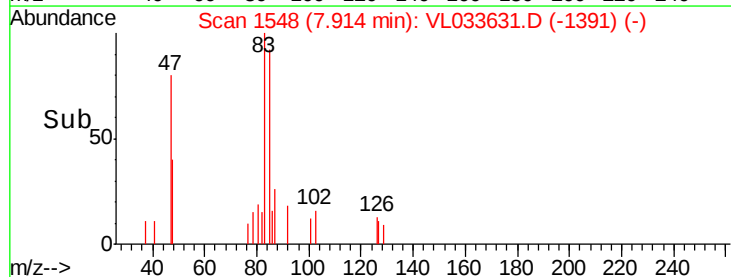
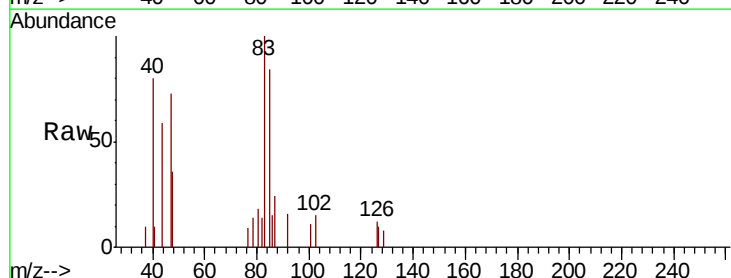
Tgt Ion: 83 Resp: 1884

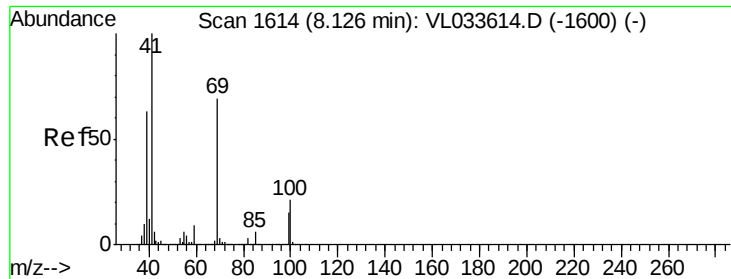
Ion Ratio Lower Upper

83 100

85 152.9 50.2 75.4#

127 20.4 6.5 9.7#

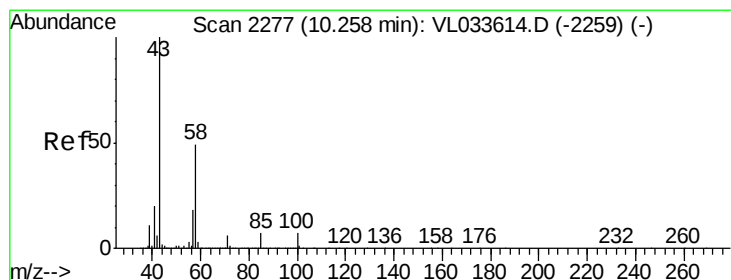
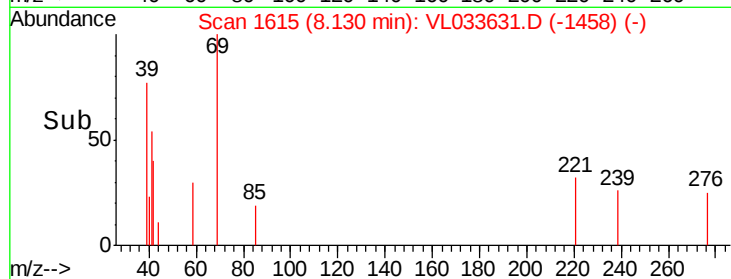
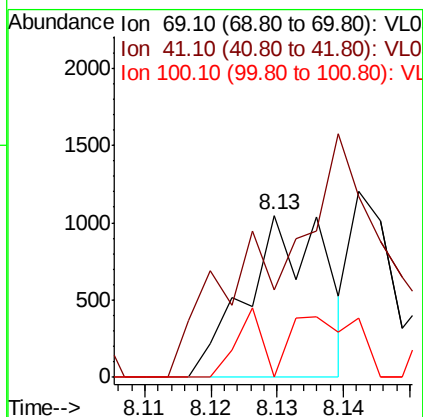
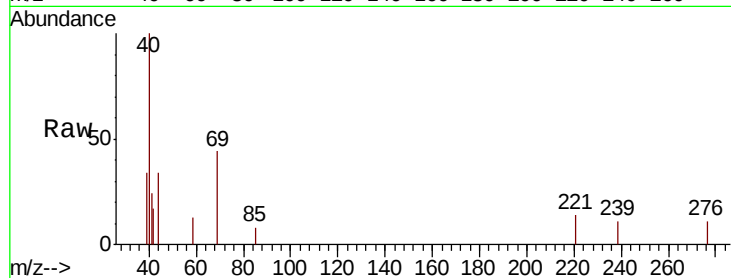




#43
Methyl Methacrylate
Concen: 0.012 ppbv
RT: 8.13 min Scan# 1615
Delta R.T. 0.00 min
Lab File: VL033631.D
Acq: 2 May 2019 17:03

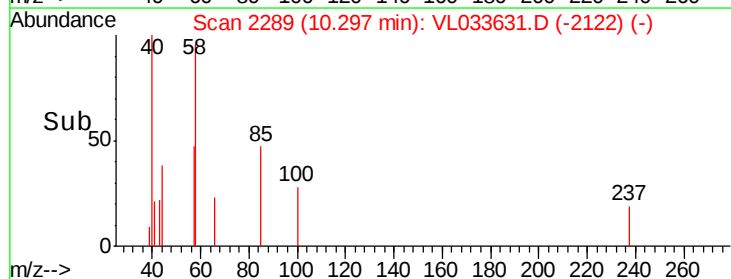
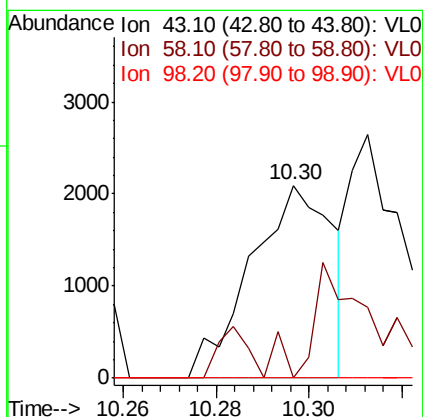
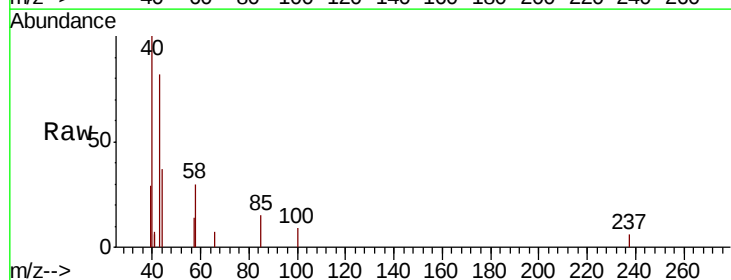
Instrument :
MSVOA_L
ClientSampleId :
A-3DL

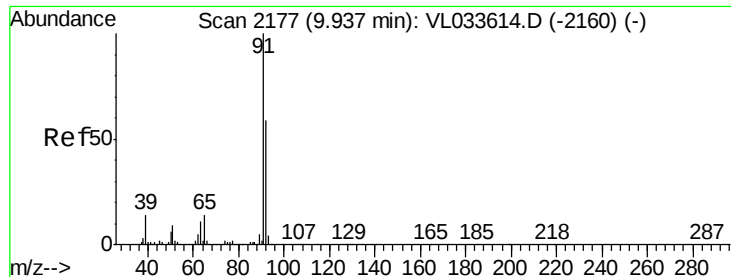
Tgt Ion: 69 Resp: 856
Ion Ratio Lower Upper
69 100
41 0.0 115.0 172.4#
100 58.5 24.7 37.1#



#51
2-Hexanone
Concen: 0.014 ppbv
RT: 10.30 min Scan# 2289
Delta R.T. 0.04 min
Lab File: VL033631.D
Acq: 2 May 2019 17:03

Tgt Ion: 43 Resp: 2554
Ion Ratio Lower Upper
43 100
58 63.9 38.5 57.7#
98 0.0 0.3 0.5#





#53

Toluene

Concen: 0.617 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

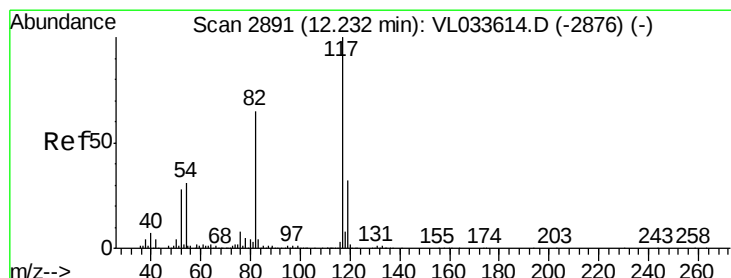
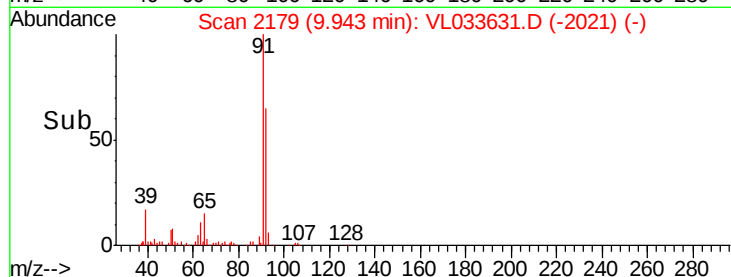
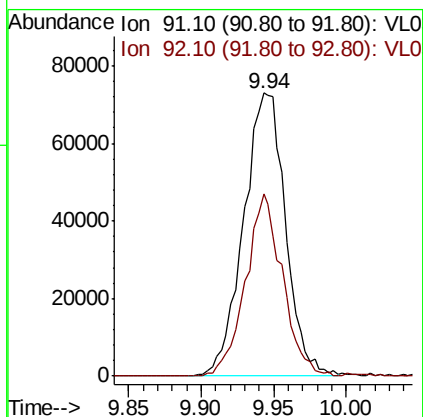
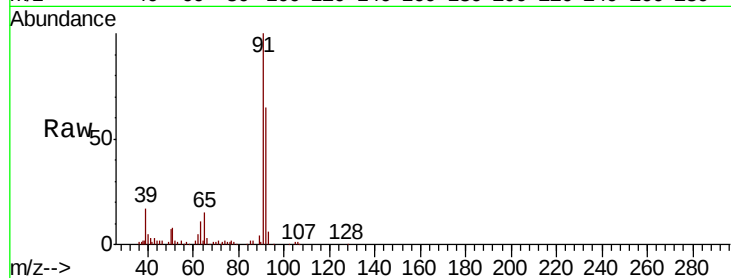
A-3DL

Tgt Ion: 91 Resp: 147164

Ion Ratio Lower Upper

91 100

92 57.0 47.8 71.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

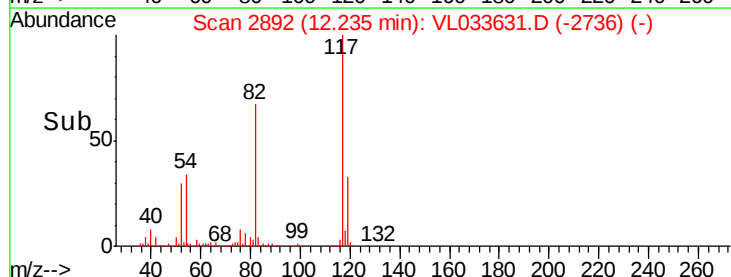
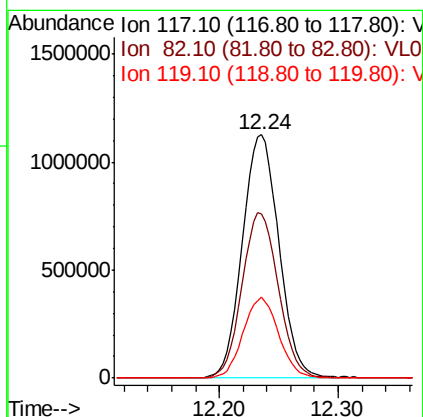
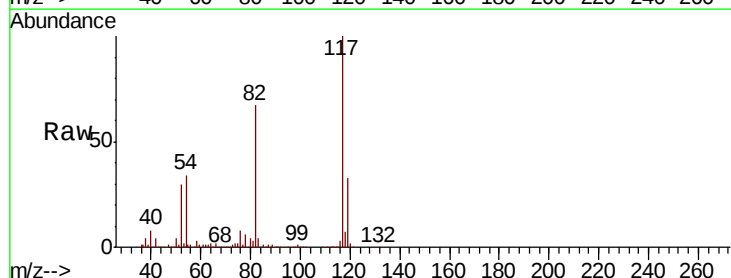
Tgt Ion: 117 Resp: 2395481

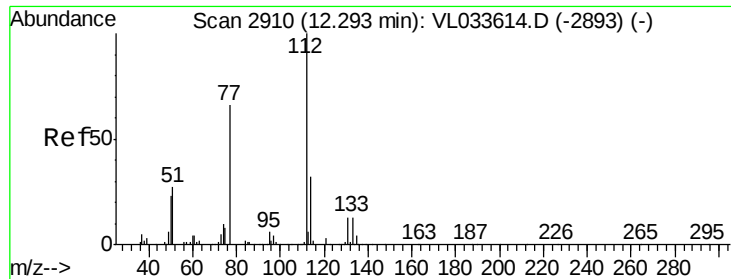
Ion Ratio Lower Upper

117 100

82 68.3 52.6 78.8

119 32.4 28.3 42.5





#57

Chlorobenzene

Concen: 0.025 ppbv

RT: 12.30 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

A-3DL

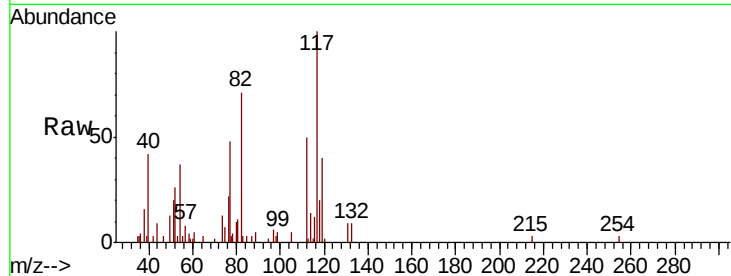
Tgt Ion: 112 Resp: 4507

Ion Ratio Lower Upper

112 100

77 95.9 53.6 80.4#

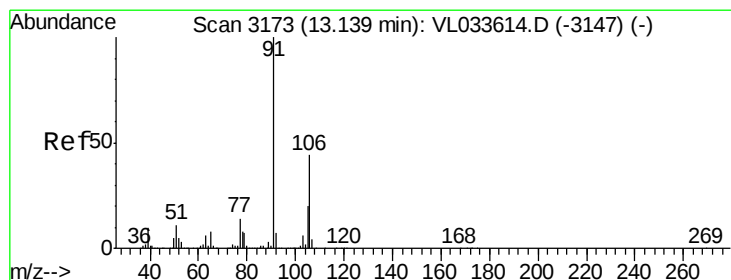
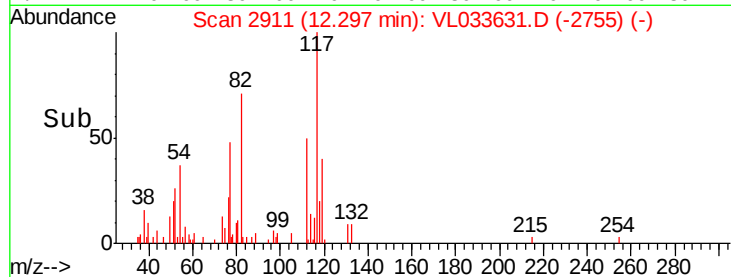
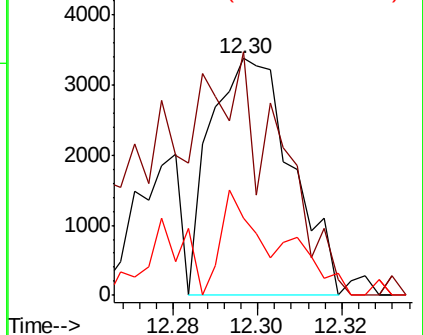
114 23.2 29.1 35.5#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#59

m/p-Xylene

Concen: 0.013 ppbv

RT: 13.15 min Scan# 3175

Delta R.T. 0.01 min

Lab File: VL033631.D

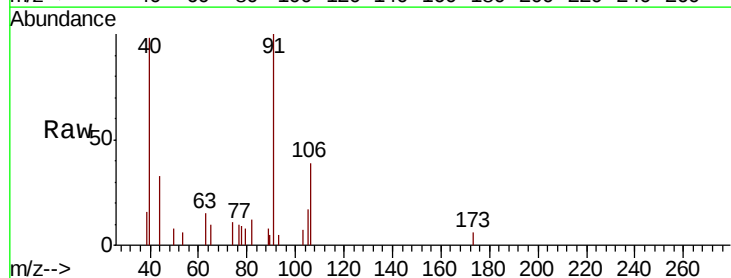
Acq: 2 May 2019 17:03

Tgt Ion: 91 Resp: 3032

Ion Ratio Lower Upper

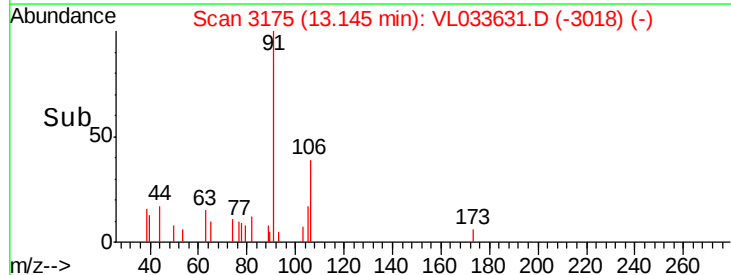
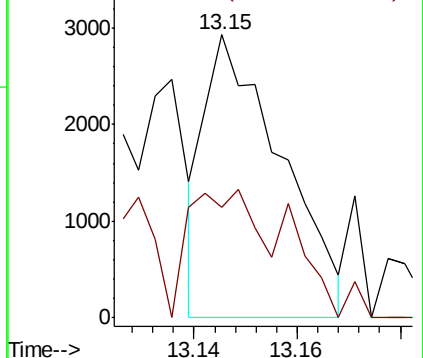
91 100

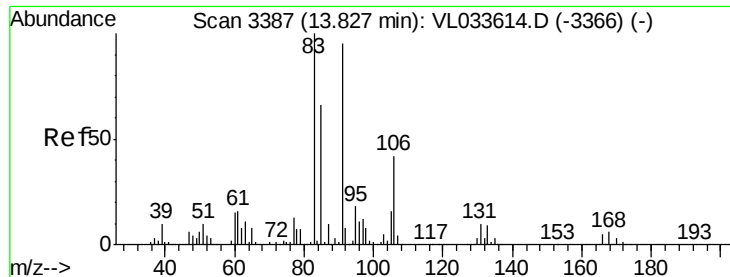
106 57.8 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.012 ppbv

RT: 13.83 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

A-3DL

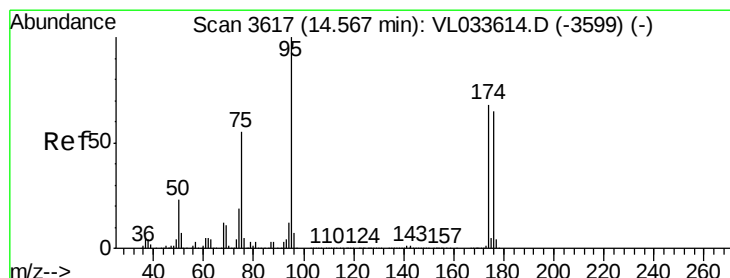
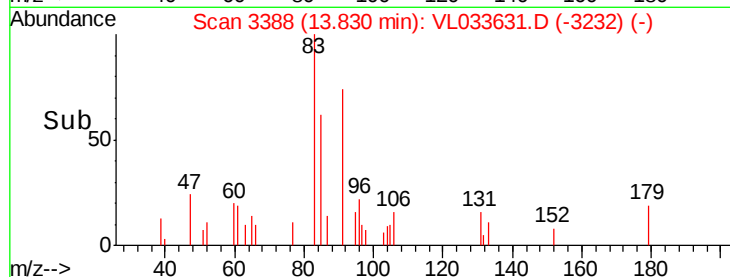
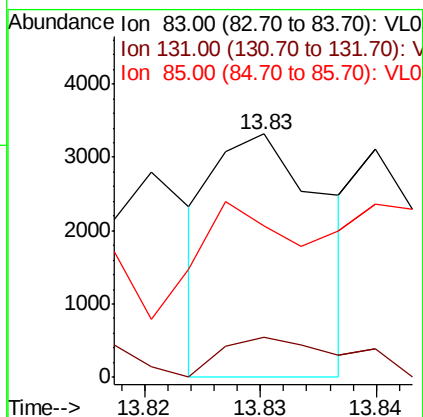
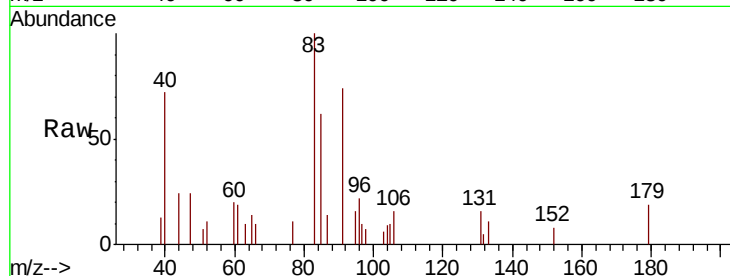
Tgt Ion: 83 Resp: 2204

Ion Ratio Lower Upper

83 100

131 29.0 4.8 14.4#

85 248.9 32.3 96.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.709 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

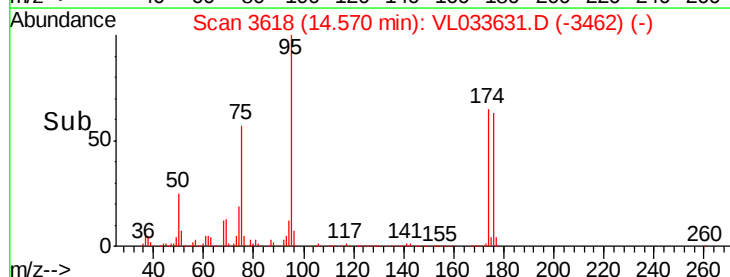
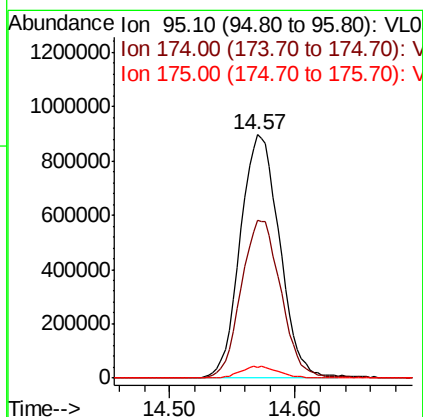
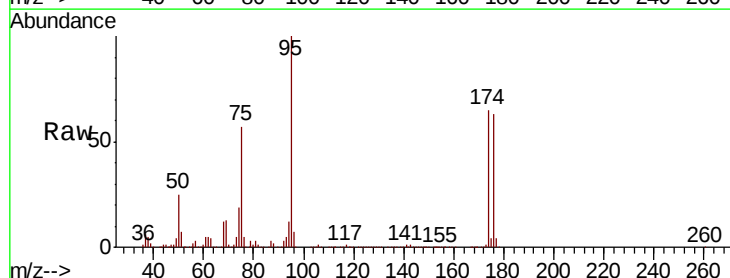
Tgt Ion: 95 Resp: 1953051

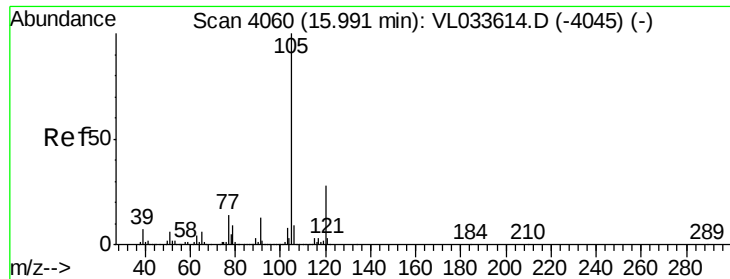
Ion Ratio Lower Upper

95 100

174 65.8 53.9 80.9

175 4.7 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.012 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

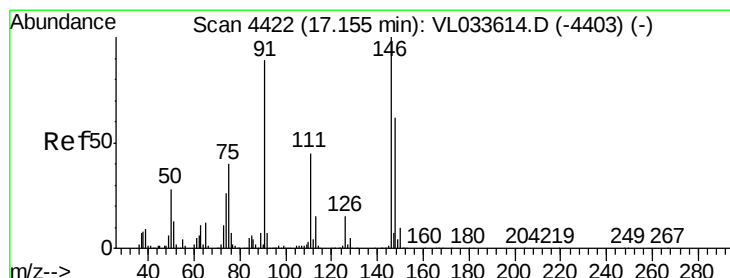
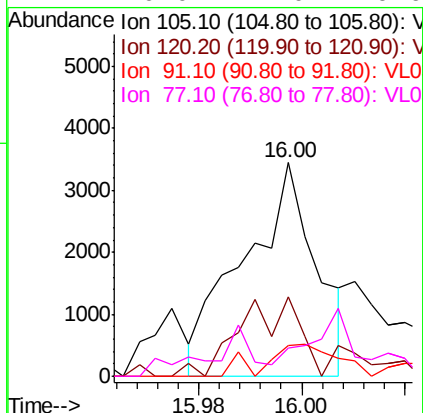
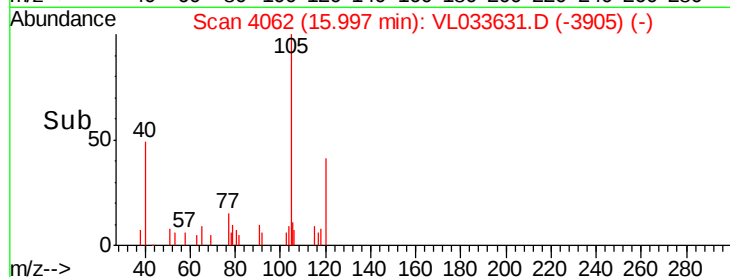
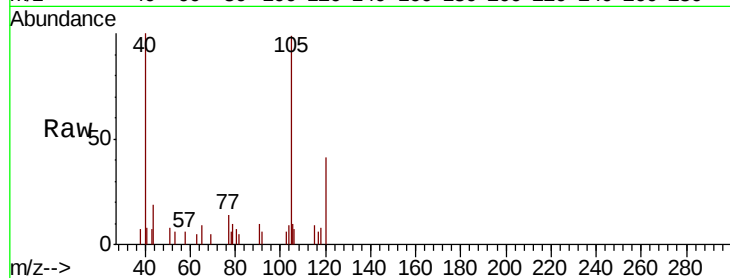
Instrument :

MSVOA_L

ClientSampleId :

A-3DL

Tgt Ion:	105	Resp:	3362
Ion	Ratio	Lower	Upper
105	100		
120	39.9	23.2	34.8#
91	18.0	10.3	15.5#
77	0.0	11.0	16.6#



#75

1,3-Dichlorobenzene

Concen: 0.016 ppbv

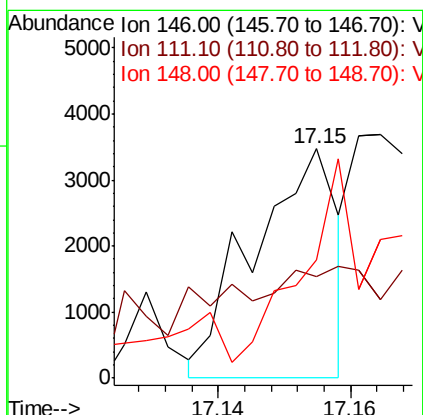
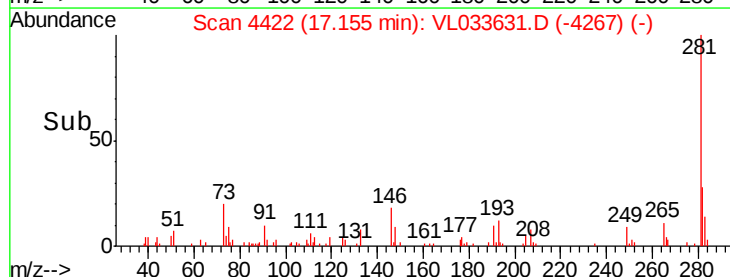
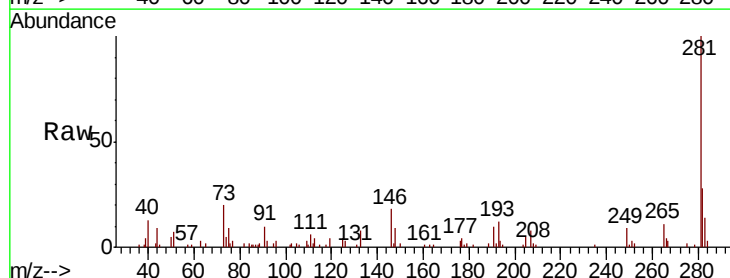
RT: 17.15 min Scan# 4422

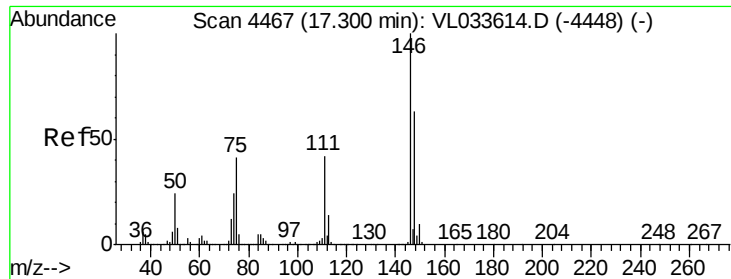
Delta R.T. -0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Tgt Ion:	146	Resp:	3046
Ion	Ratio	Lower	Upper
146	100		
111	151.4	22.4	67.2#
148	177.0	32.0	96.0#

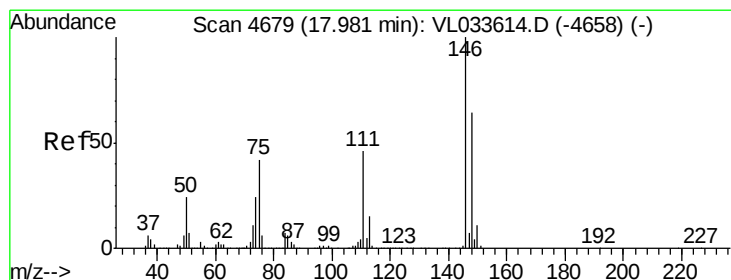
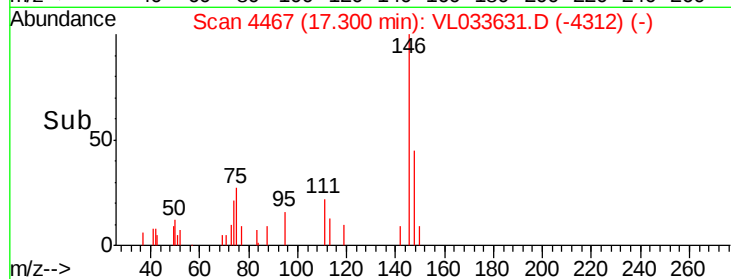
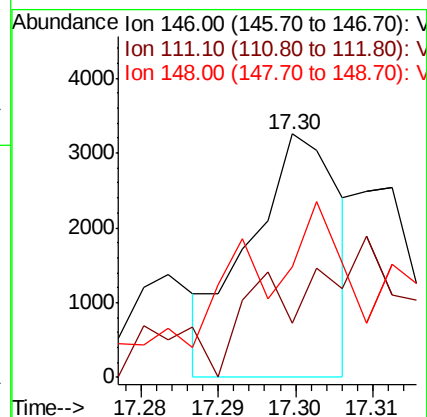
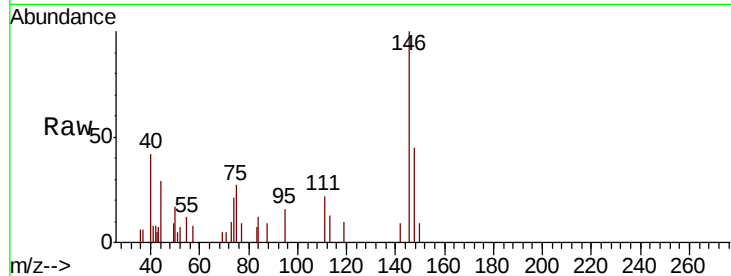




#76
 1,4-Dichlorobenzene
 Concen: 0.015 ppbv
 RT: 17.30 min Scan# 4467
 Delta R.T. -0.00 min
 Lab File: VL033631.D
 Acq: 2 May 2019 17:03

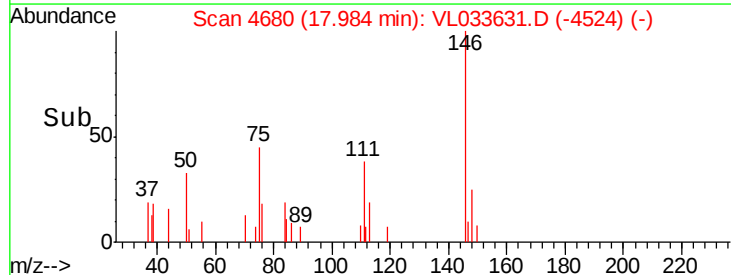
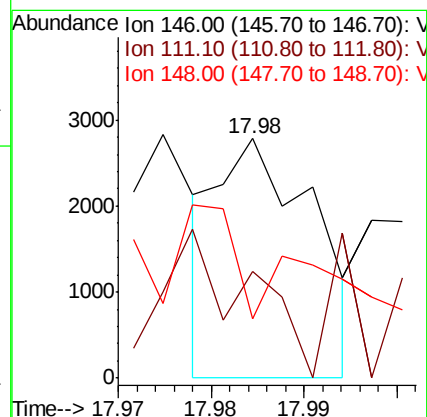
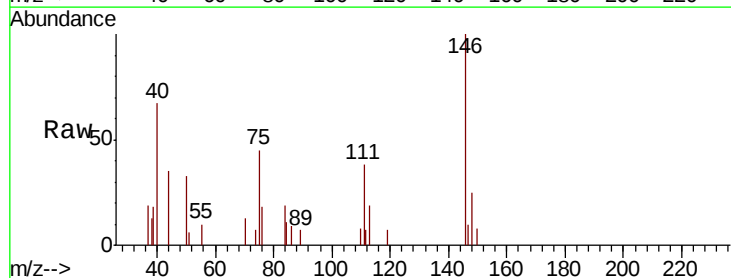
Instrument :
 MSVOA_L
 ClientSampled :
 A-3DL

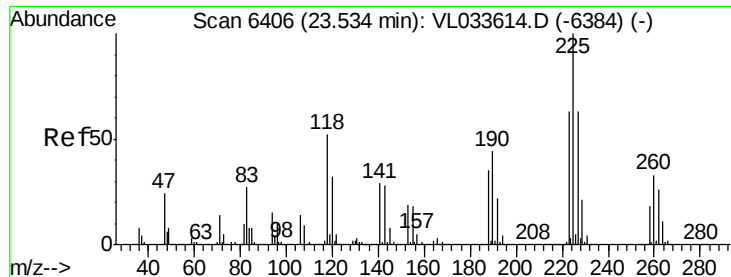
Tgt Ion:146 Resp: 2627
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.6 65.0#
 148 155.7 32.3 96.9#



#77
 1,2-Dichlorobenzene
 Concen: 0.012 ppbv
 RT: 17.98 min Scan# 4680
 Delta R.T. 0.00 min
 Lab File: VL033631.D
 Acq: 2 May 2019 17:03

Tgt Ion:146 Resp: 2011
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.3 69.9#
 148 0.0 32.2 96.6#





#78

Hexachloro-1,3-Butadiene

Concen: 0.028 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. 0.01 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

A-3DL

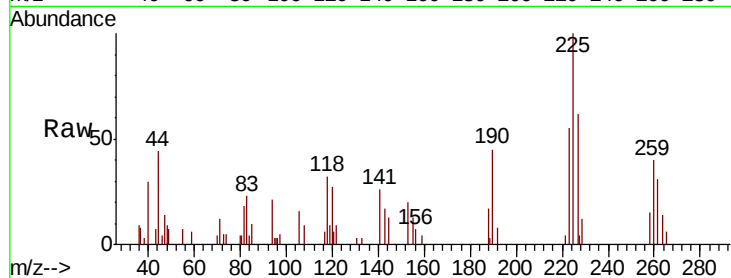
Tgt Ion:225 Resp: 3677

Ion Ratio Lower Upper

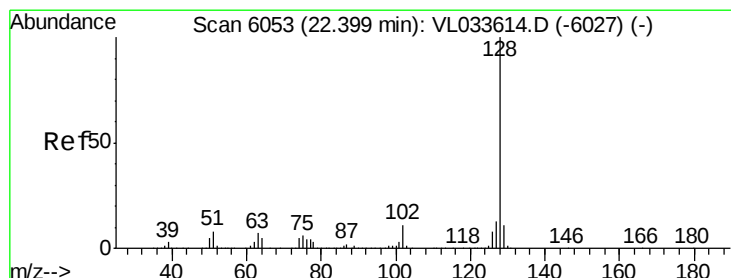
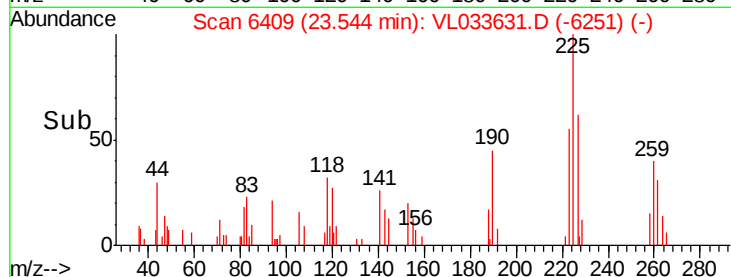
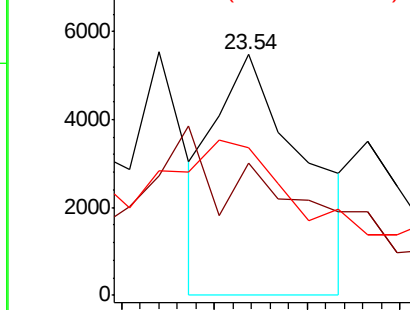
225 100

223 184.3 50.4 75.6#

227 196.2 50.7 76.1#



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.016 ppbv

RT: 22.40 min Scan# 6054

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

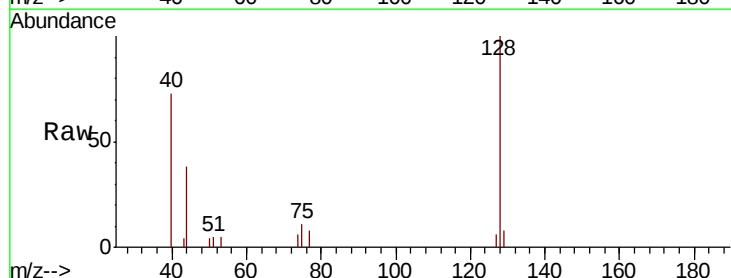
Tgt Ion:128 Resp: 4474

Ion Ratio Lower Upper

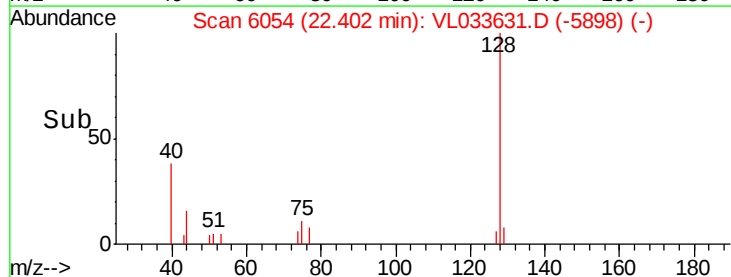
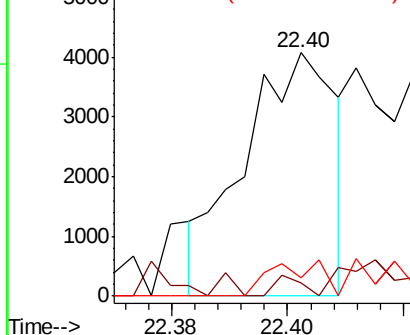
128 100

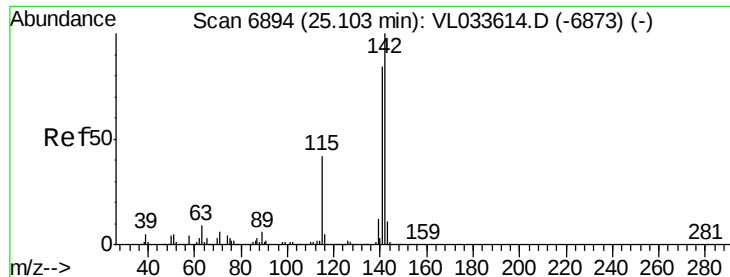
127 1.9 10.6 16.0#

129 11.1 8.6 13.0



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.032 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

Instrument :

MSVOA_L

ClientSampleId :

A-3DL

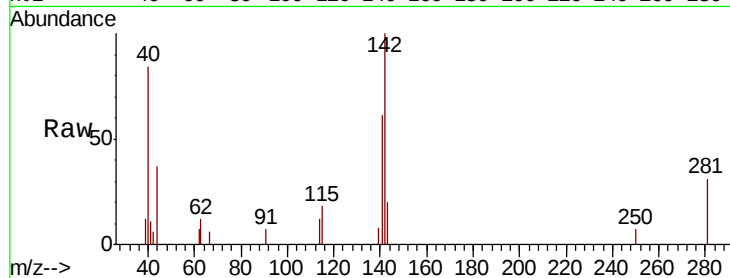
Tgt Ion:142 Resp: 3882

Ion Ratio Lower Upper

142 100

141 87.0 67.3 100.9

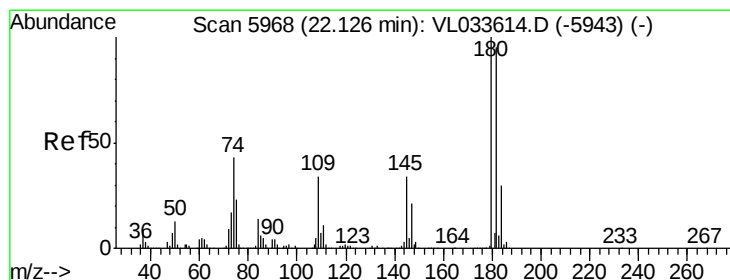
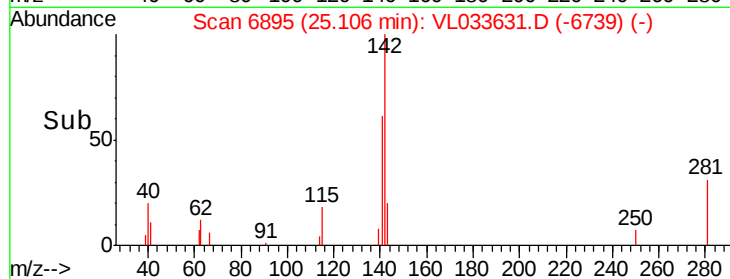
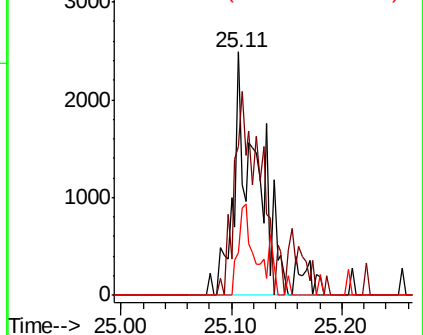
115 29.2 33.8 50.8#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.015 ppbv

RT: 22.13 min Scan# 5969

Delta R.T. 0.00 min

Lab File: VL033631.D

Acq: 2 May 2019 17:03

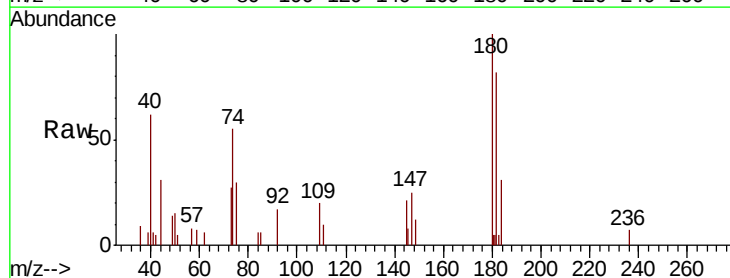
Tgt Ion:180 Resp: 2403

Ion Ratio Lower Upper

180 100

182 233.8 76.2 114.2#

184 0.0 24.5 36.7#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

