

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033668.D
 Acq On : 6 May 2019 21:05
 Operator : SY/AP
 Sample : K2241-13 0.03PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 07 04:11:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	784730	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1976541	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2078777	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1784107	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds					Ovalue
3) Chlorodifluoromethane	3.02	51	6919	0.061 ppbv	92
4) Chloromethane	3.17	50	2020	0.034 ppbv #	82
5) Vinyl Chloride	3.29	62	2075	0.036 ppbv #	88
6) Bromomethane	3.51	94	509	0.014 ppbv #	24
7) Chloroethane	3.60	64	569	0.027 ppbv #	62
8) Dichlorotetrafluoroethane	3.22	85	6994	0.046 ppbv	98
10) Heptane	8.23	43	1189	0.011 ppbv #	23
11) Trichlorofluoromethane	4.00	101	5033	0.029 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3372	0.029 ppbv #	13
13) Ethanol	3.65	45	145	0.011 ppbv	90
15) Acetone	3.92	43	15063	0.129 ppbv	92
16) 1,3-Butadiene	3.36	39	1447	0.029 ppbv #	7
18) 1,1-Dichloroethene	4.35	96	844	0.017 ppbv #	24
20) Methylene Chloride	4.40	84	4085	0.092 ppbv #	77
21) Allyl Chloride	4.47	41	837	0.012 ppbv #	18
22) trans-1,2-Dichloroethene	4.96	96	1854	0.037 ppbv #	70
23) Vinyl Acetate	5.15	43	1669	0.011 ppbv #	81
24) 1,1-Dichloroethane	5.08	63	4321	0.038 ppbv #	89
25) Ethyl Acetate	5.78	43	4169	0.022 ppbv #	83
26) Hexane	5.78	57	1792	0.022 ppbv #	1
27) Carbon Disulfide	4.62	76	1208	0.011 ppbv #	1
29) Chloroform	5.84	83	4408	0.030 ppbv #	70
31) cis-1,2-Dichloroethene	5.63	61	1058	0.013 ppbv #	60
35) Carbon Tetrachloride	7.12	117	2696	0.017 ppbv	85
38) Trichloroethene	7.95	130	1227	0.019 ppbv #	51
39) 1,2-Dichloropropane	7.29	63	527248	7.982 ppbv #	24
42) Bromodichloromethane	7.90	83	2518	0.016 ppbv #	78
45) t-1,3-Dichloropropene	9.41	75	960	0.012 ppbv #	88
47) 1,1,2-Trichloroethane	9.61	97	1491	0.020 ppbv #	64
48) Dibromochloromethane	10.44	129	1392	0.011 ppbv	10
54) 1,2-Dibromoethane	10.76	107	2513	0.022 ppbv #	43
56) 1,1,1,2-Tetrachloroethane	12.26	131	1248	0.013 ppbv #	10
57) Chlorobenzene	12.29	112	5703	0.033 ppbv #	61
58) Ethyl Benzene	12.86	91	2838	0.010 ppbv	92
59) m/p-Xylene	13.15	91	3405	0.014 ppbv #	56
66) Benzyl Chloride	17.15	91	2822	0.020 ppbv #	16
74) 1,2,4-Trimethylbenzene	16.92	105	4344	0.014 ppbv #	62
76) 1,4-Dichlorobenzene	17.29	146	2070	0.012 ppbv #	24
78) Hexachloro-1,3-Butadiene	23.52	225	1783	0.013 ppbv #	1
80) Naphthalene,2-methyl-	25.11	142	1085	0.010 ppbv #	90

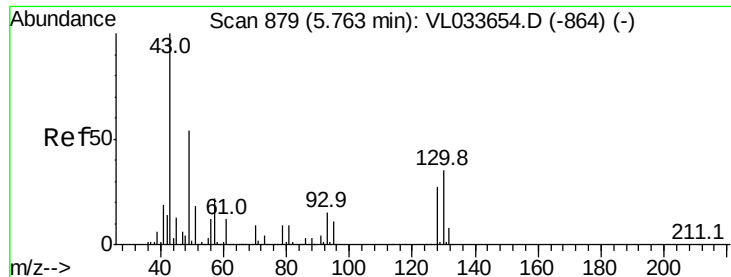
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
Data File : VL033668.D
Acq On : 6 May 2019 21:05
Operator : SY/AP
Sample : K2241-13 0.03PPB
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: May 07 04:11:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

ClientSampled :

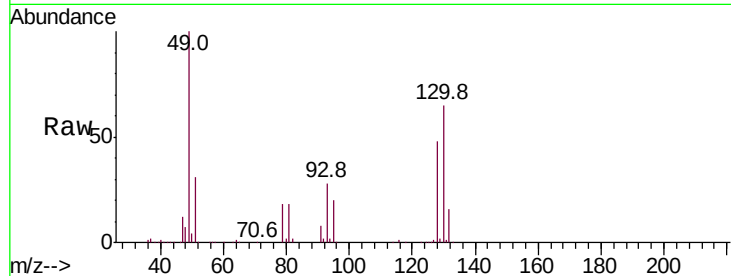
Tot Ion: 49 Resp: 784730

Ion Ratio Lower Upper

49 100

128 50.3 24.8 74.3

130 64.6 32.1 96.5



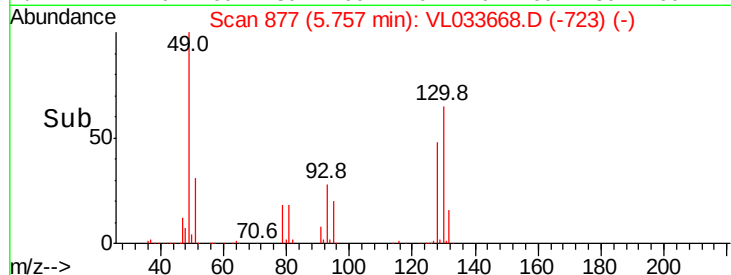
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

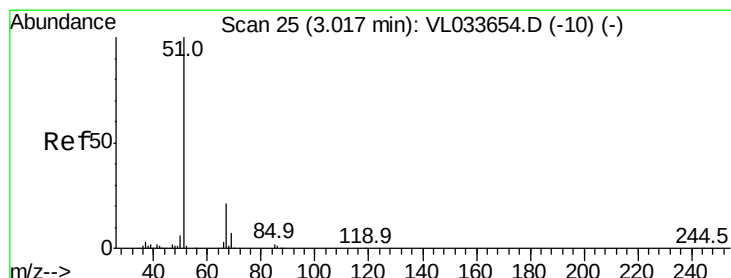
Ion 130.00 (129.70 to 130.70): VL0

5.76

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033668.D

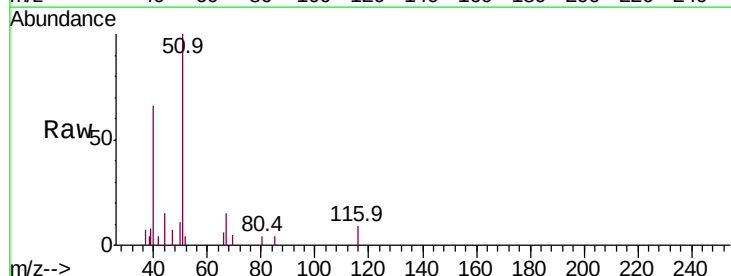
Acq: 6 May 2019 21:05

Tgt Ion: 51 Resp: 6919

Ion Ratio Lower Upper

51 100

67 16.0 15.7 23.5

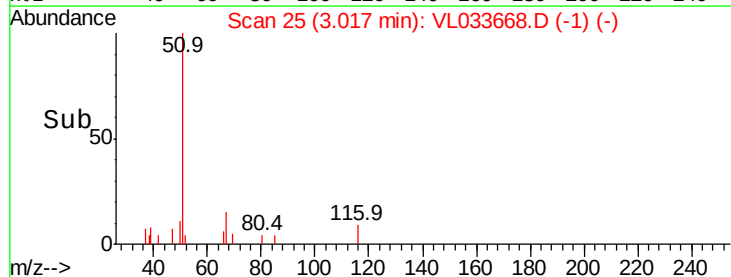


Abundance Ion 51.00 (50.70 to 51.70): VL0

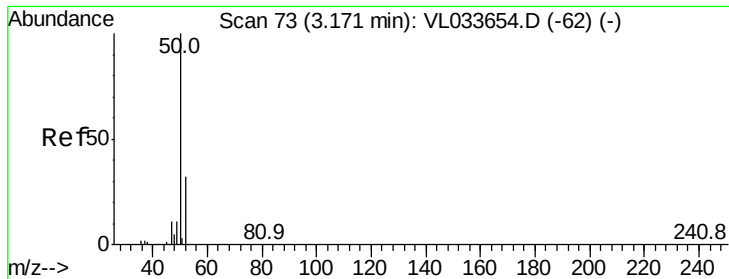
Ion 67.00 (66.70 to 67.70): VL0

3.02

Time-->



Time-->



#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

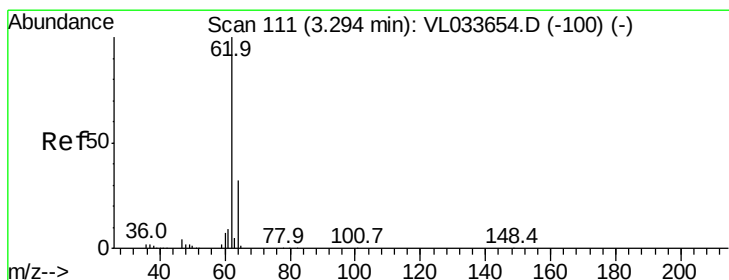
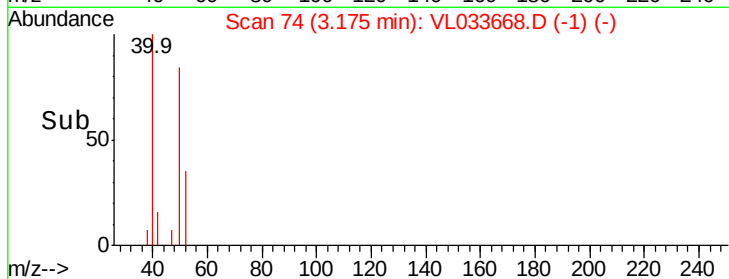
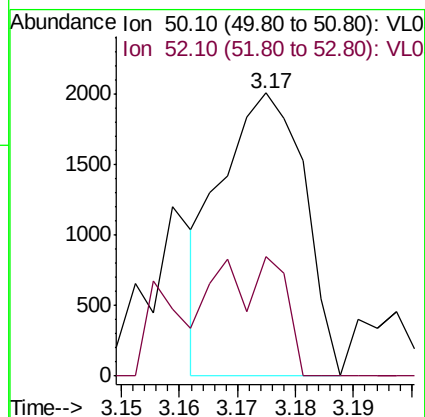
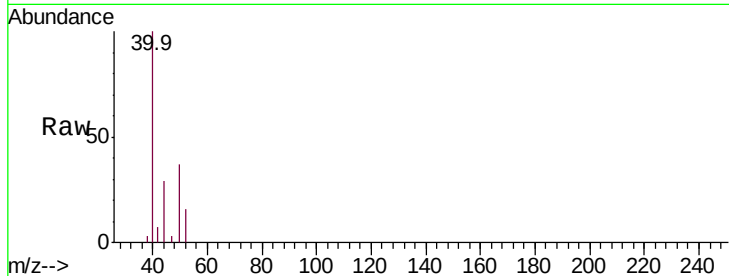
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 50 Resp: 2020

Ion Ratio Lower Upper

50 100

52 42.1 25.8 38.8#



#5

Vinyl Chloride

Concen: 0.036 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033668.D

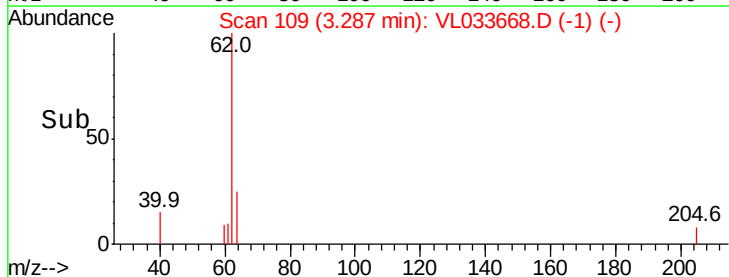
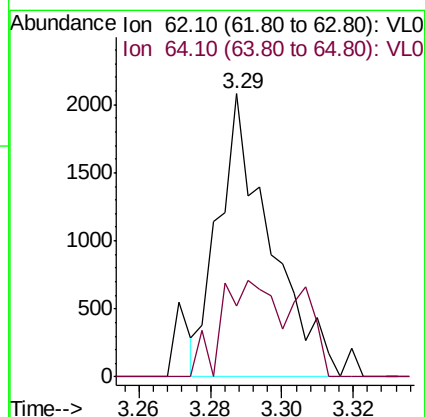
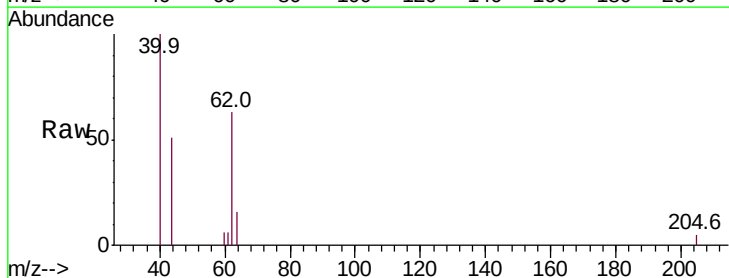
Acq: 6 May 2019 21:05

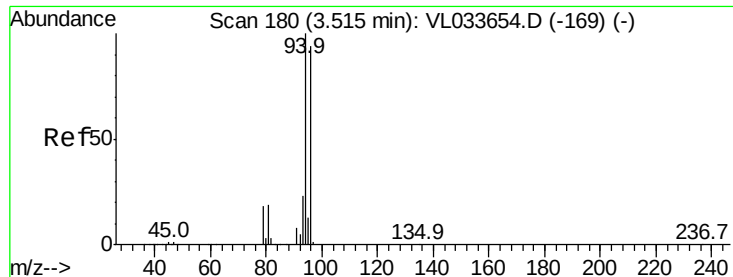
Tgt Ion: 62 Resp: 2075

Ion Ratio Lower Upper

62 100

64 25.3 25.6 38.4#





#6

Bromomethane

Concen: 0.014 ppbv

RT: 3.51 min Scan# 177

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

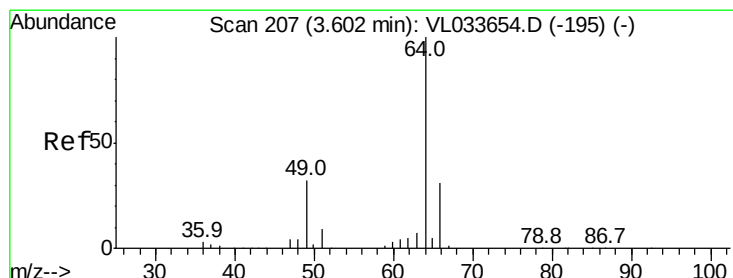
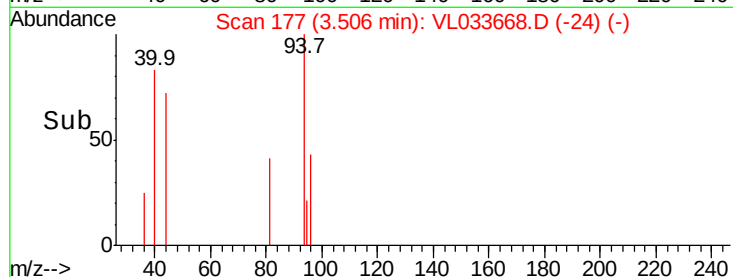
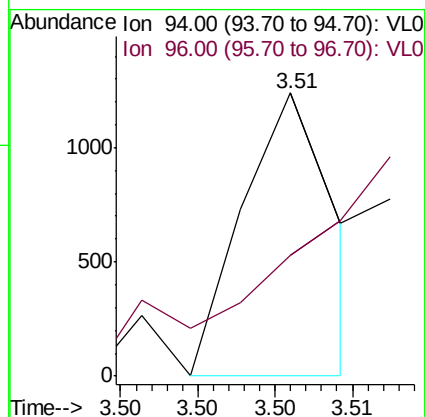
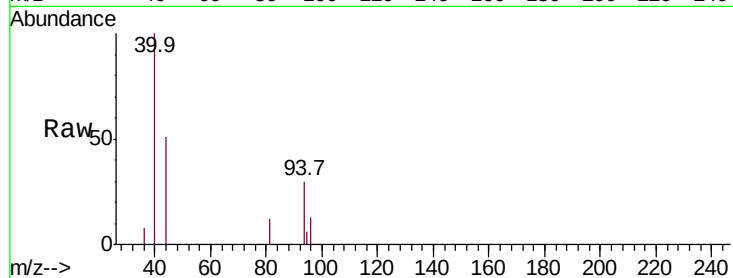
ClientSampleId :

Tot Ion: 94 Resp: 509

Ion Ratio Lower Upper

94 100

96 21.0 75.2 112.8#



#7

Chloroethane

Concen: 0.027 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033668.D

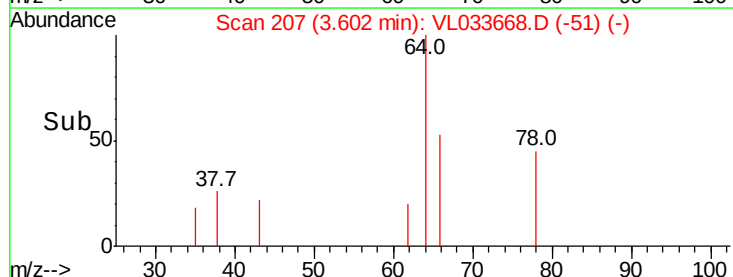
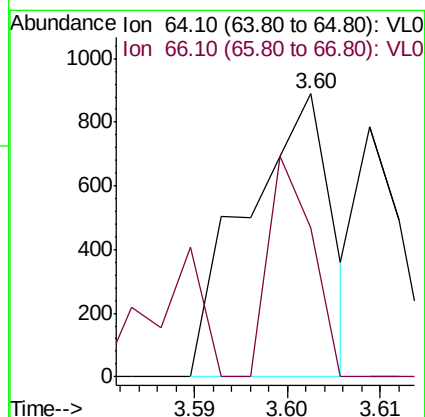
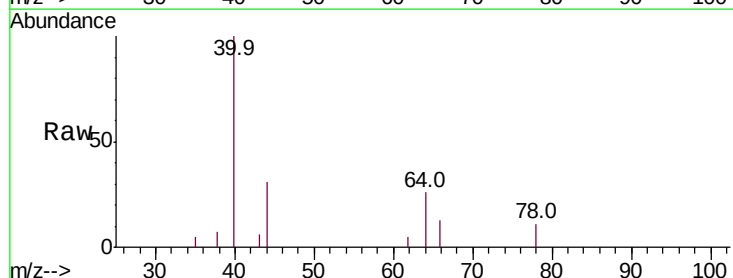
Acq: 6 May 2019 21:05

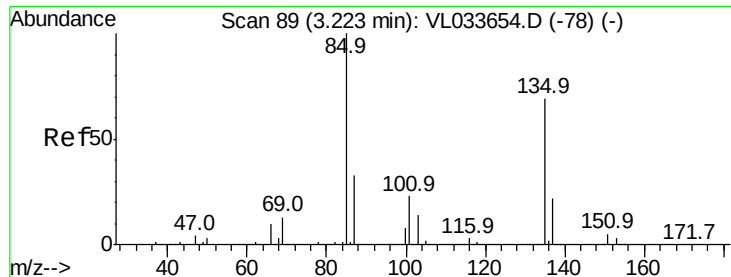
Tgt Ion: 64 Resp: 569

Ion Ratio Lower Upper

64 100

66 52.5 25.1 37.7#





#8

Dichlorotetrafluoroethane

Concen: 0.046 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

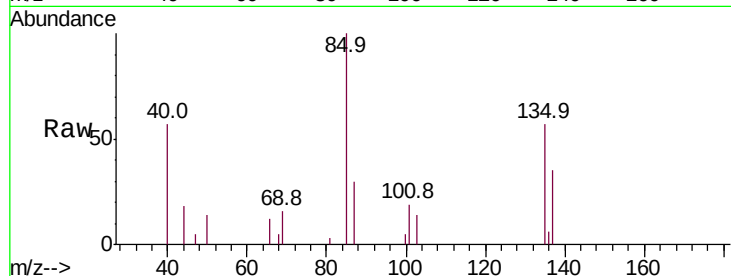
ClientSampleId :

Tot Ion: 85 Resp: 6994

Ion Ratio Lower Upper

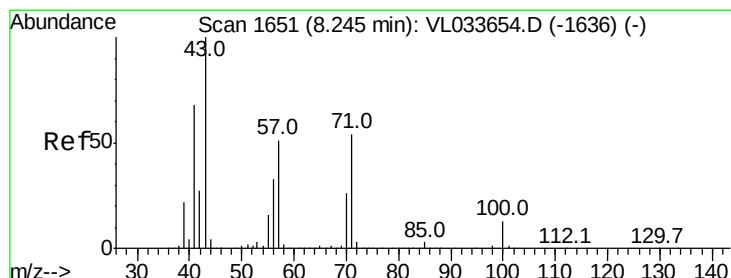
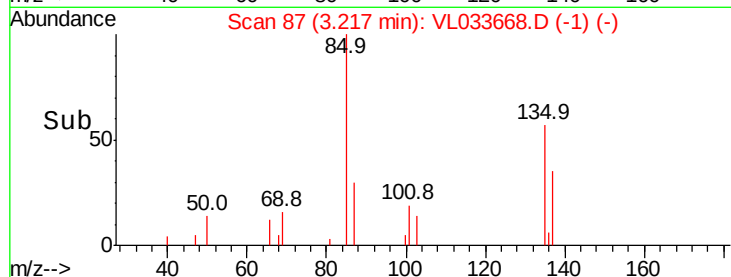
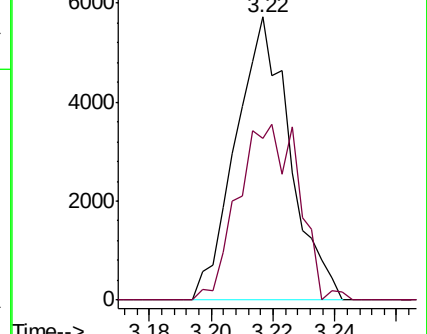
85 100

135 69.7 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#10

Heptane

Concen: 0.011 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VL033668.D

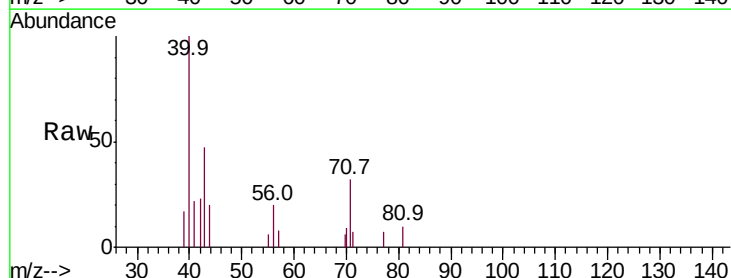
Acq: 6 May 2019 21:05

Tgt Ion: 43 Resp: 1189

Ion Ratio Lower Upper

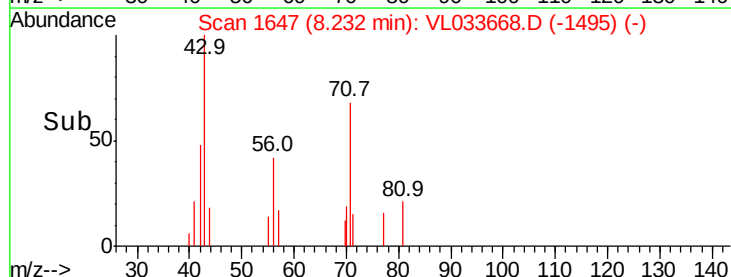
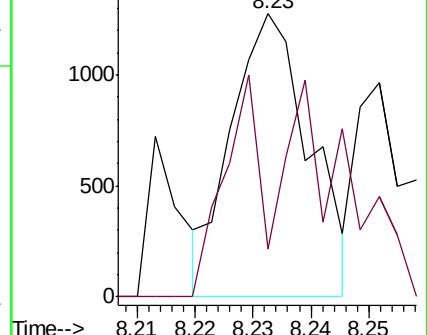
43 100

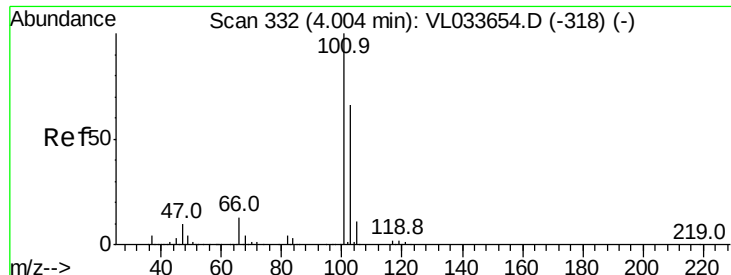
57 106.1 41.8 62.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.029 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

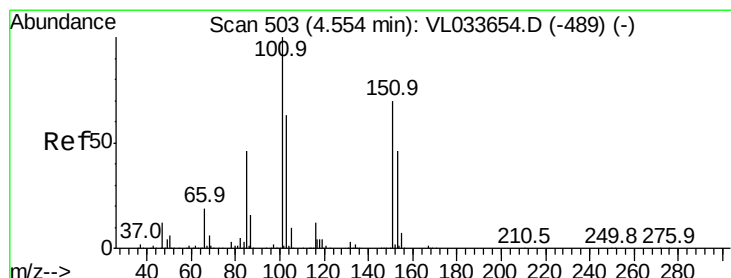
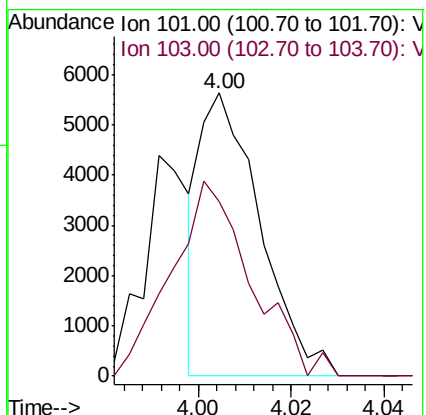
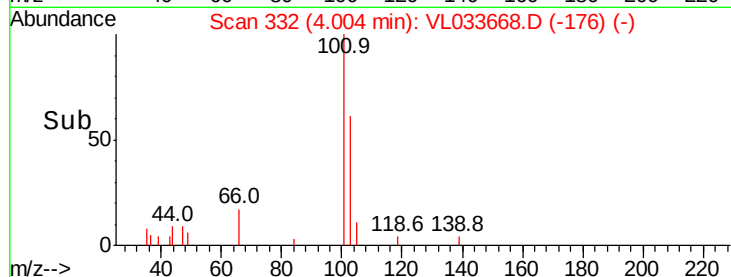
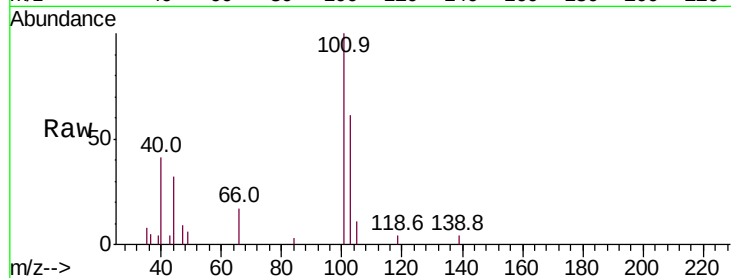
ClientSampleId :

Tot Ion:101 Resp: 5033

Ion Ratio Lower Upper

101 100

103 61.5 52.7 79.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.029 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033668.D

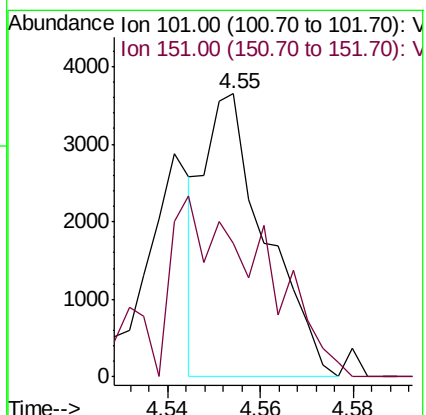
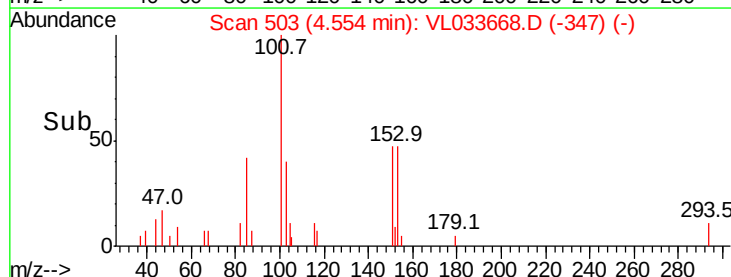
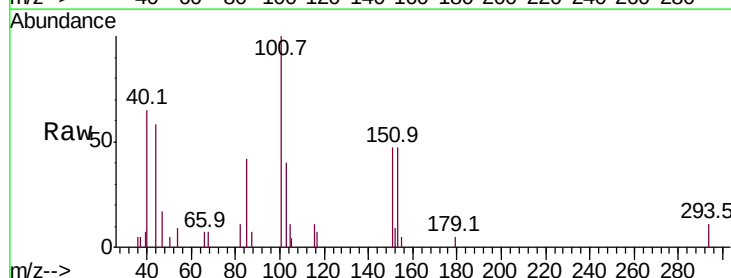
Acq: 6 May 2019 21:05

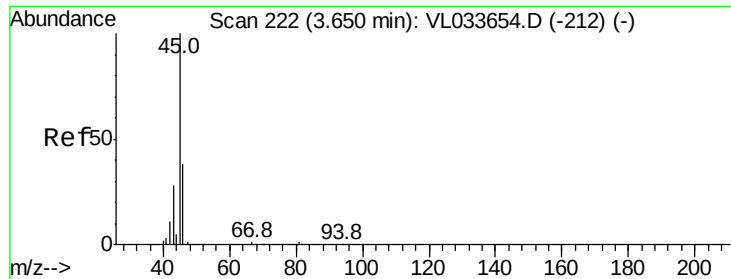
Tgt Ion:101 Resp: 3372

Ion Ratio Lower Upper

101 100

151 0.0 58.0 87.0#

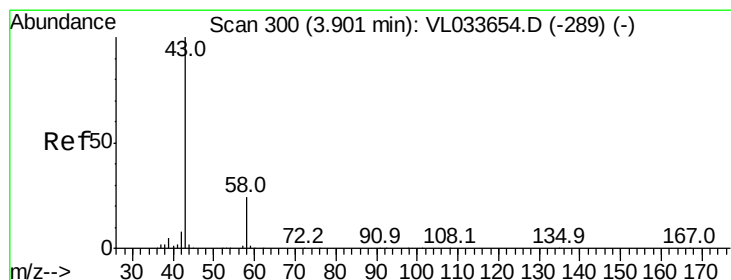
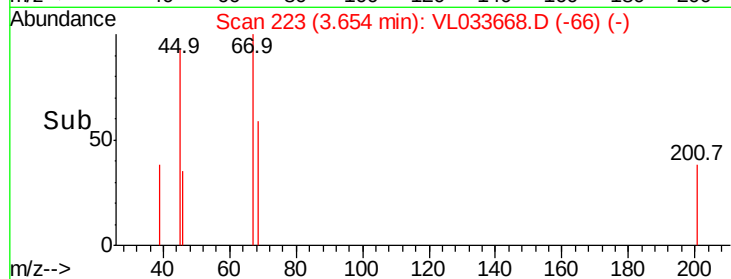
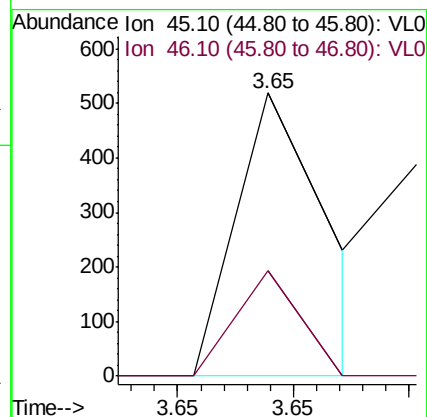
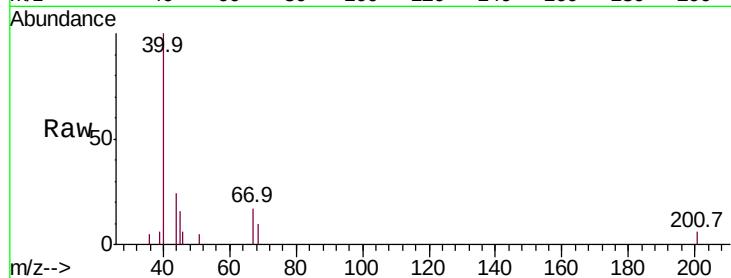




#13
Ethanol
Concen: 0.011 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033668.D
Acq: 6 May 2019 21:05

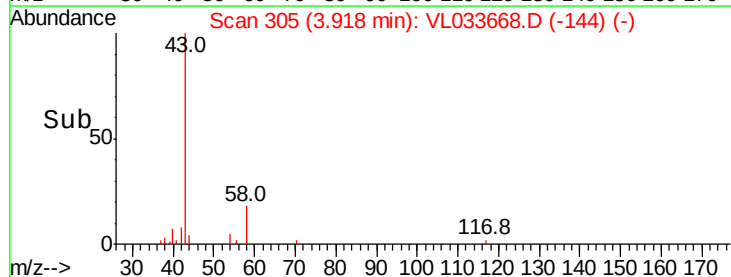
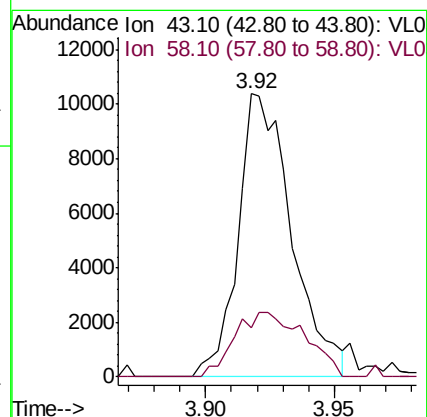
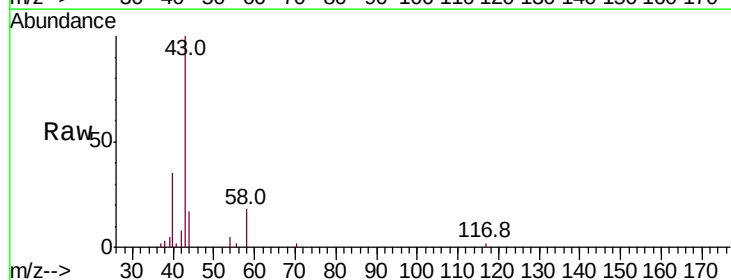
Instrument :
MSVOA_L
ClientSampled :

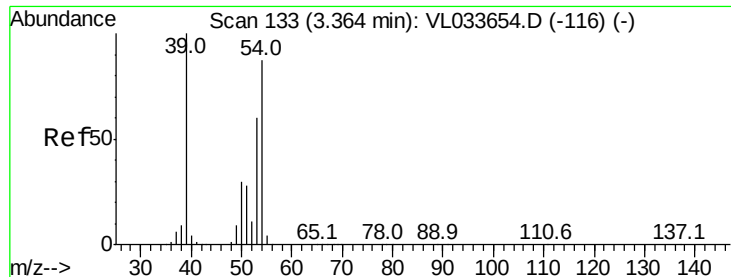
Tot Ion: 45 Resp: 145
Ion Ratio Lower Upper
45 100
46 31.0 14.9 59.7



#15
Acetone
Concen: 0.129 ppbv
RT: 3.92 min Scan# 305
Delta R.T. 0.02 min
Lab File: VL033668.D
Acq: 6 May 2019 21:05

Tgt Ion: 43 Resp: 15063
Ion Ratio Lower Upper
43 100
58 30.4 20.9 31.3





#16

1,3-Butadiene

Concen: 0.029 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

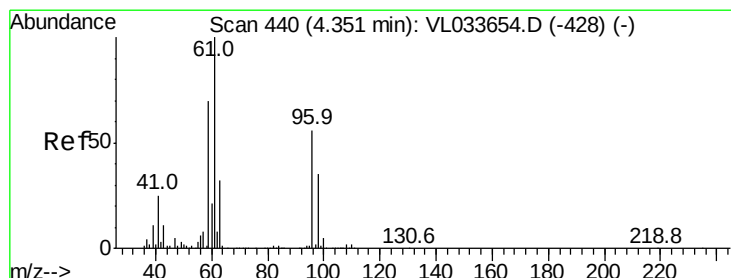
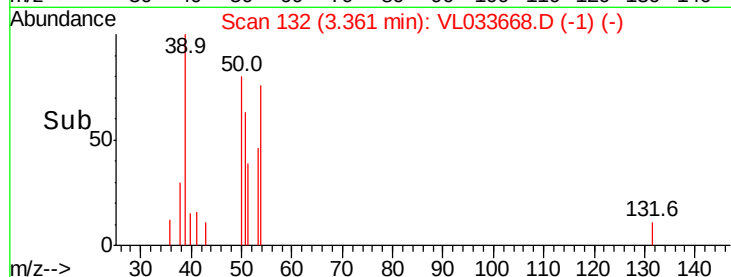
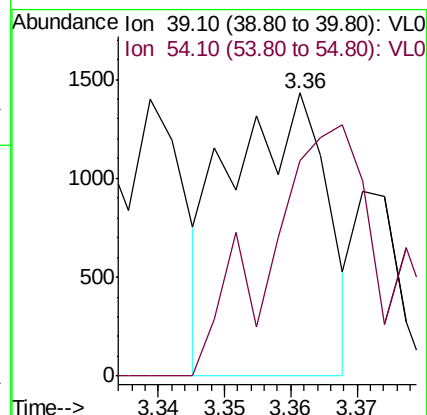
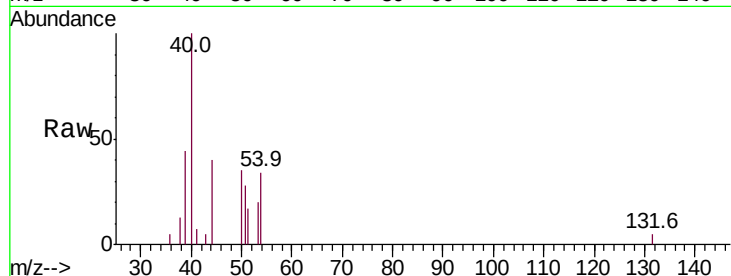
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 39 Resp: 1447

Ion Ratio Lower Upper

39 100

54 0.0 67.0 100.4#



#18

1,1-Dichloroethene

Concen: 0.017 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

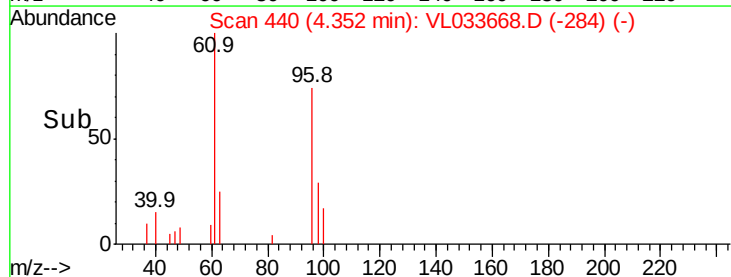
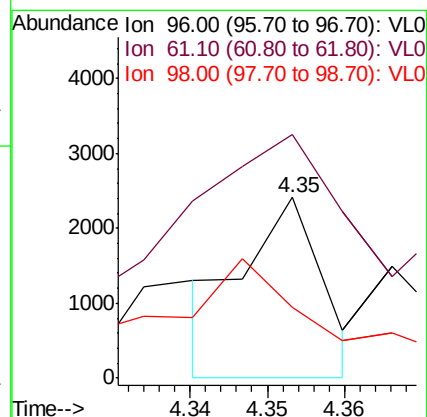
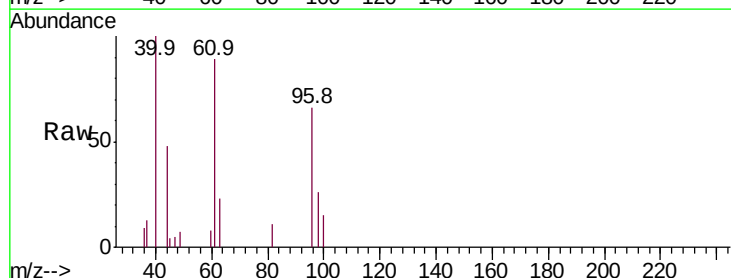
Tgt Ion: 96 Resp: 844

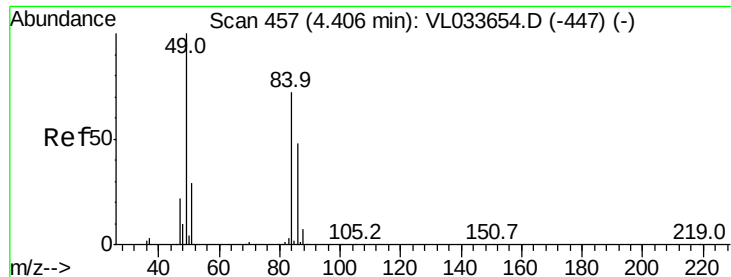
Ion Ratio Lower Upper

96 100

61 57.8 143.4 215.0#

98 24.9 50.4 75.6#

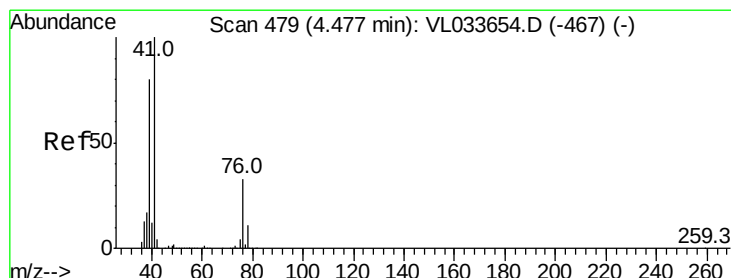
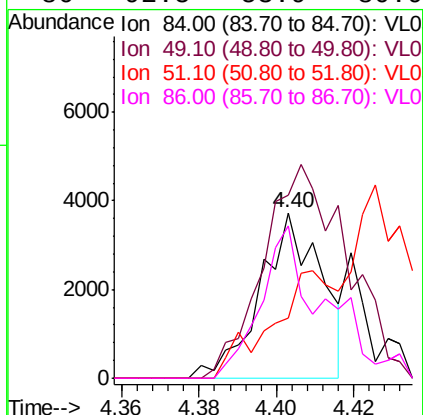
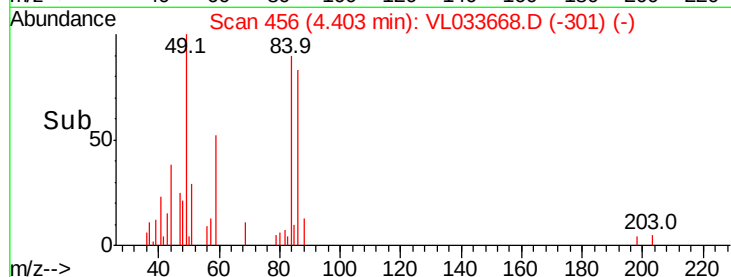
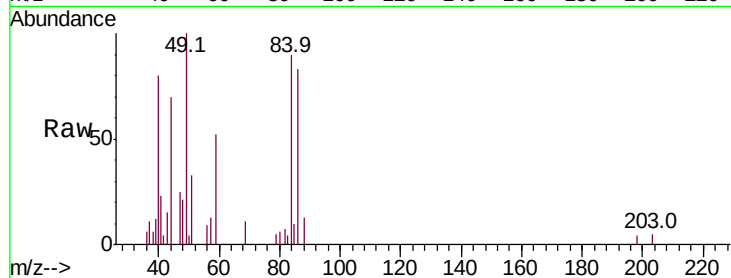




#20
Methylene Chloride
Concen: 0.092 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033668.D
Acq: 6 May 2019 21:05

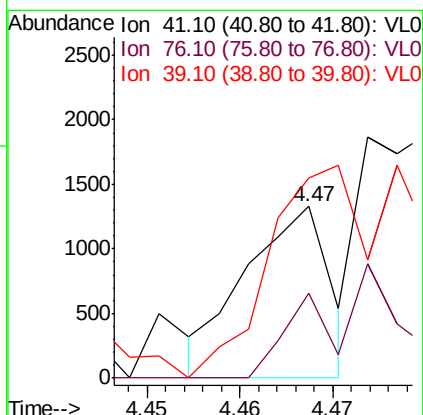
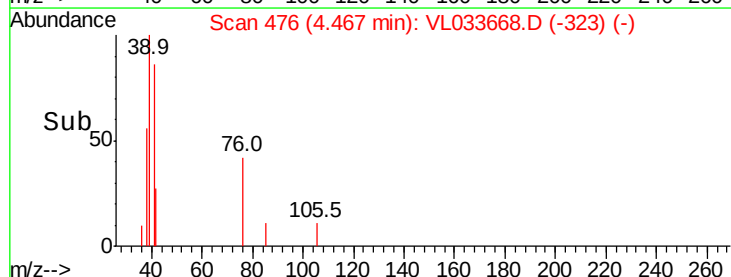
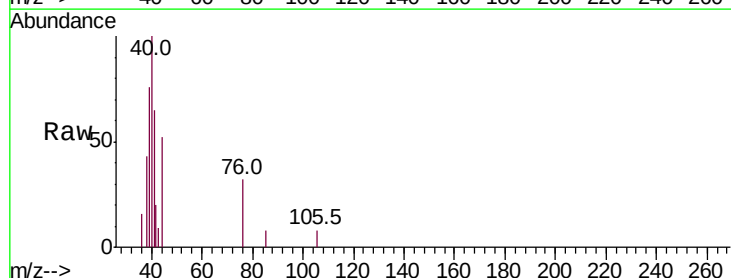
Instrument :
MSVOA_L
ClientSampled :

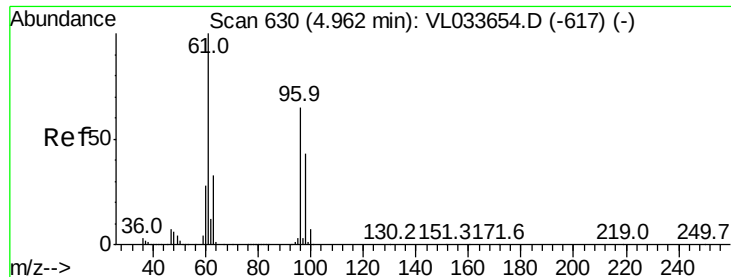
Tot Ion: 84 Resp: 4085
Ion Ratio Lower Upper
84 100
49 110.8 111.8 167.6#
51 36.4 32.3 48.5
86 92.5 53.9 80.9#



#21
Allyl Chloride
Concen: 0.012 ppbv
RT: 4.47 min Scan# 476
Delta R.T. -0.01 min
Lab File: VL033668.D
Acq: 6 May 2019 21:05

Tgt Ion: 41 Resp: 837
Ion Ratio Lower Upper
41 100
76 66.4 26.0 39.0#
39 0.0 64.4 96.6#





#22

trans-1,2-Dichloroethene

Concen: 0.037 ppbv

RT: 4.96 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :
MSVOA_L
ClientSampleId :

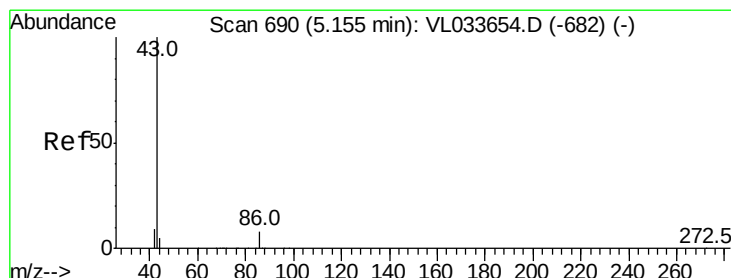
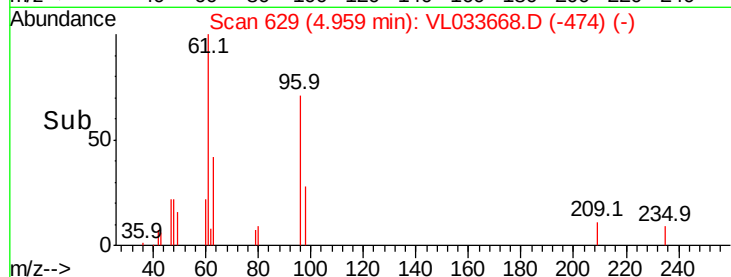
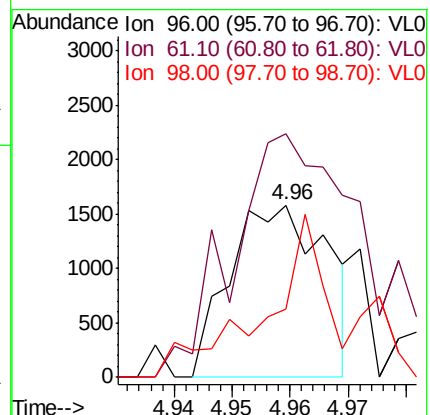
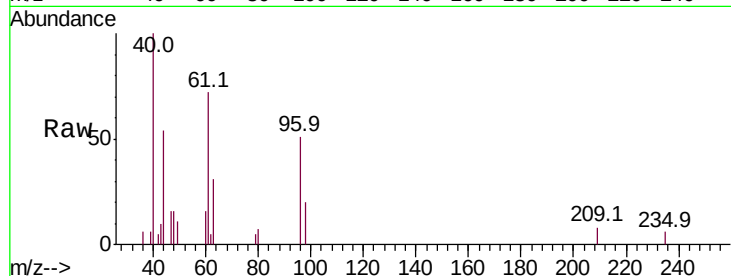
Tot Ion: 96 Resp: 1854

Ion Ratio Lower Upper

96 100

61 127.7 123.1 184.7

98 23.9 52.6 79.0#



#23

Vinyl Acetate

Concen: 0.011 ppbv

RT: 5.15 min Scan# 687

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Tgt Ion: 43 Resp: 1669

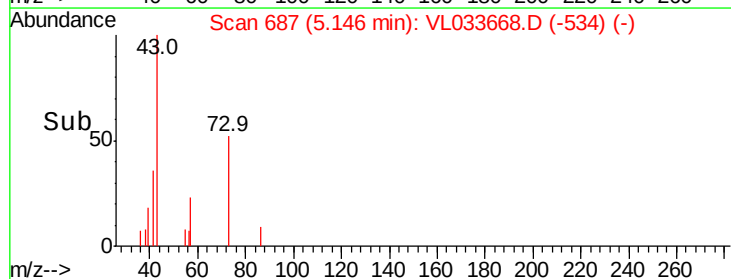
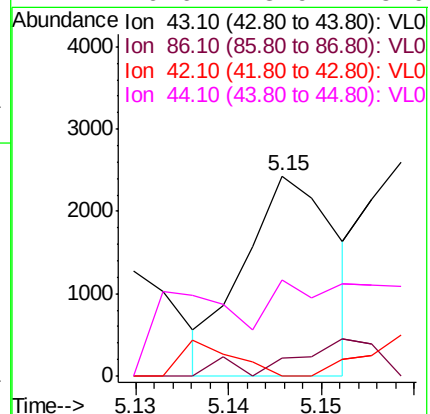
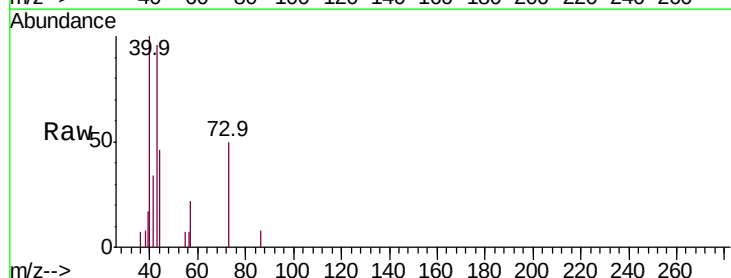
Ion Ratio Lower Upper

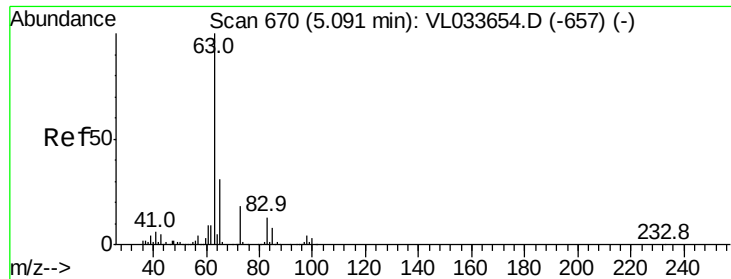
43 100

86 11.3 6.0 9.0#

42 0.0 8.0 12.0#

44 10.6 3.9 5.9#





#24

1,1-Dichloroethane

Concen: 0.038 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

ClientSampled :

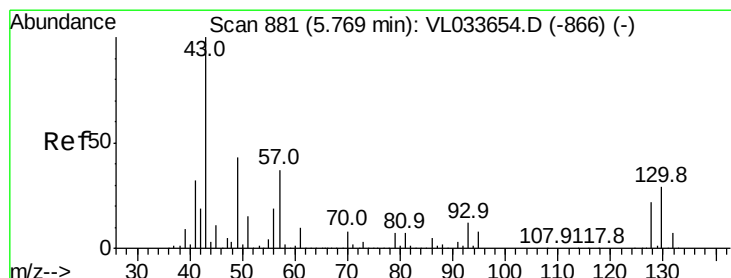
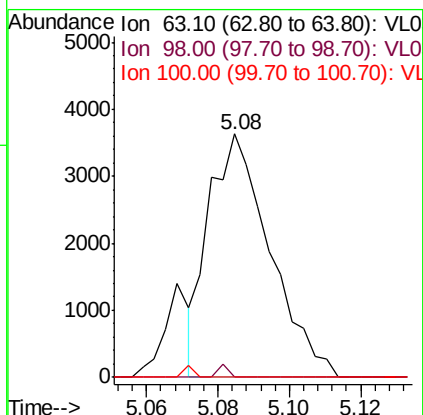
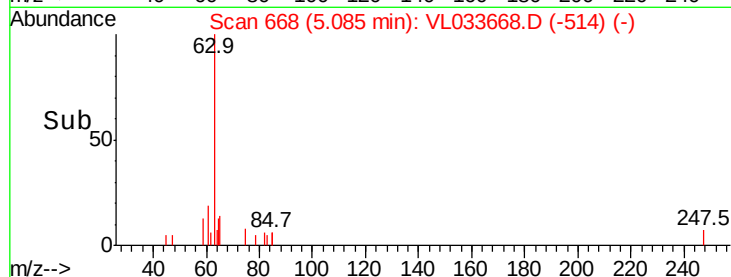
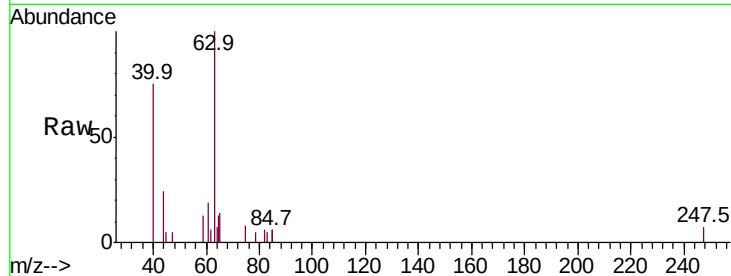
Tot Ion: 63 Resp: 4321

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.2#

100 0.0 1.5 4.4#



#25

Ethyl Acetate

Concen: 0.022 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Tgt Ion: 43 Resp: 4169

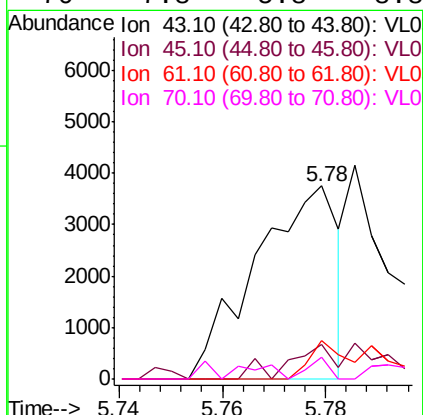
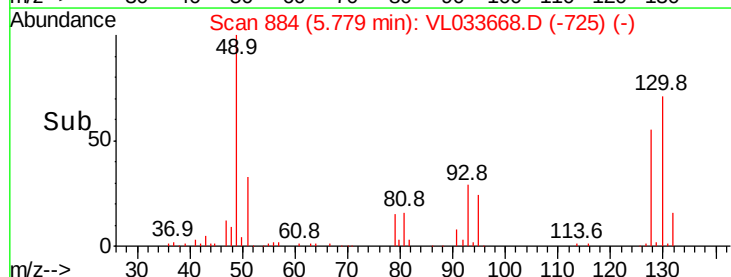
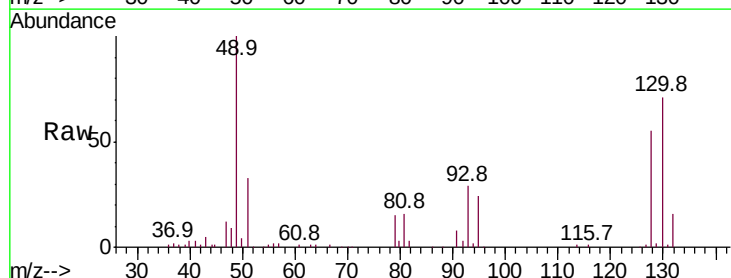
Ion Ratio Lower Upper

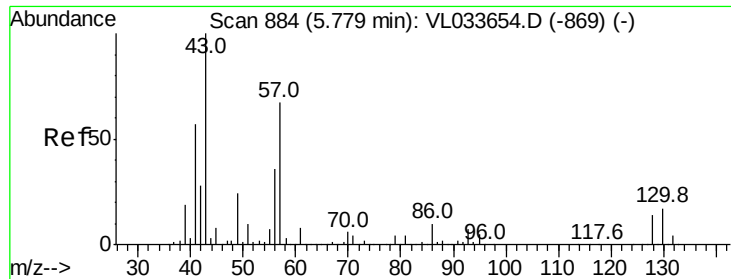
43 100

45 0.0 8.0 12.0#

61 16.0 7.5 11.3#

70 7.8 5.8 8.8





#26

Hexane

Concen: 0.022 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 1792

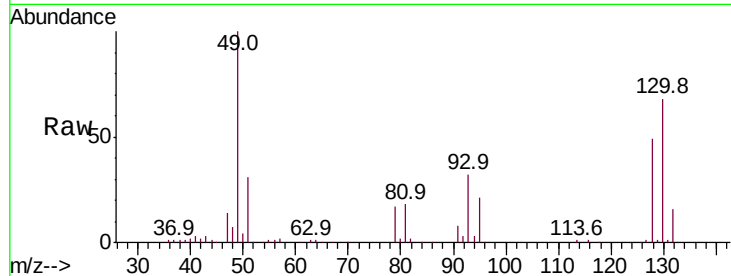
Ion Ratio Lower Upper

57 100

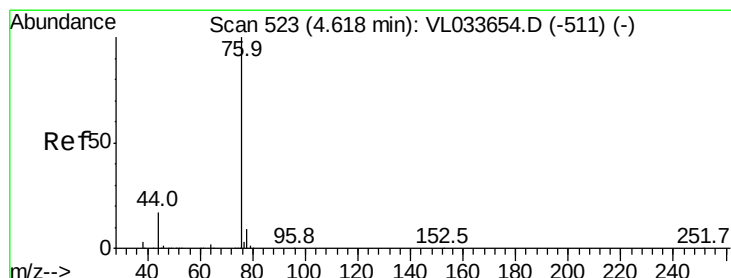
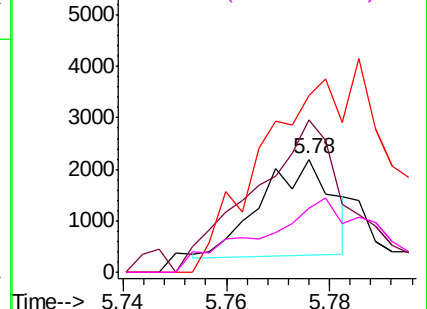
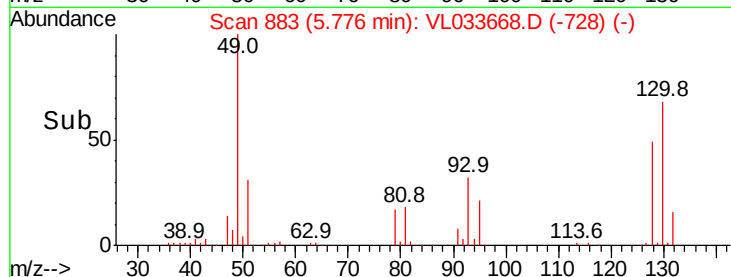
41 223.1 69.7 104.5#

43 402.2 181.9 272.9#

56 125.9 42.5 63.7#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.011 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

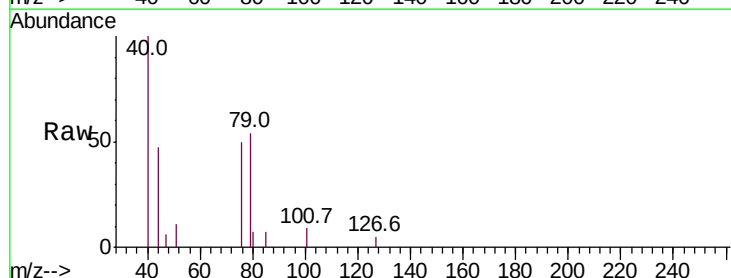
Tgt Ion: 76 Resp: 1208

Ion Ratio Lower Upper

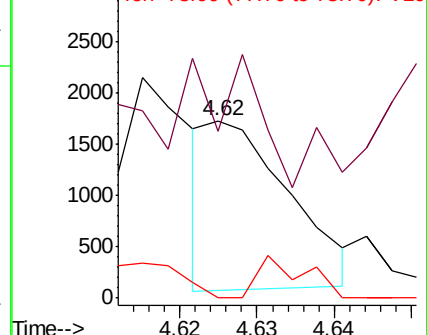
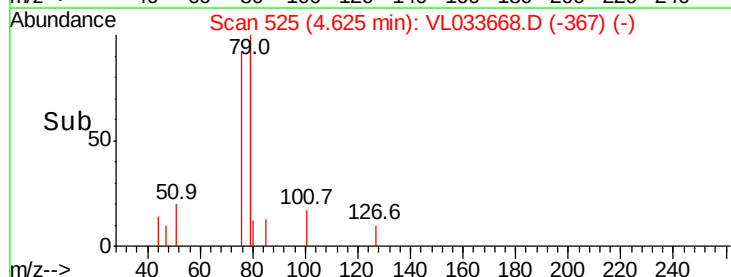
76 100

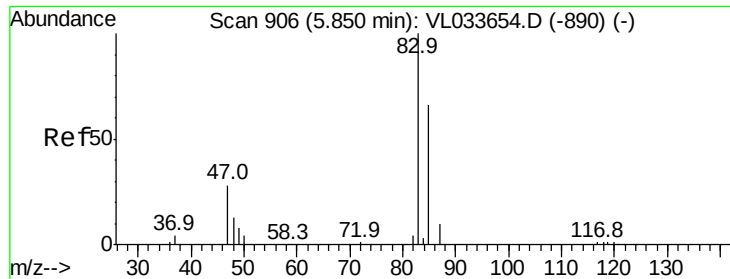
44 199.1 14.4 21.6#

78 41.0 7.4 11.2#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

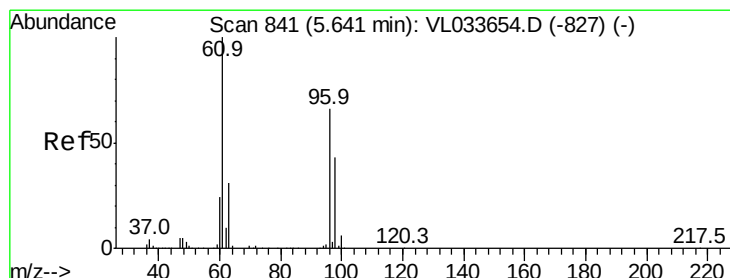
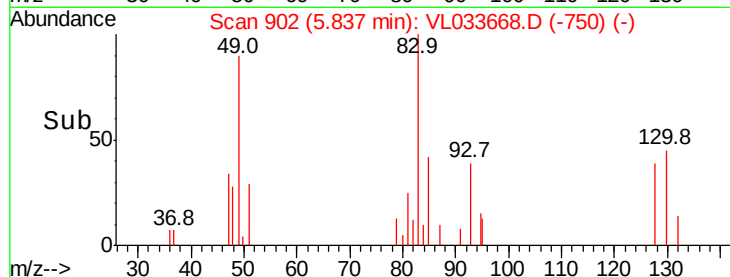
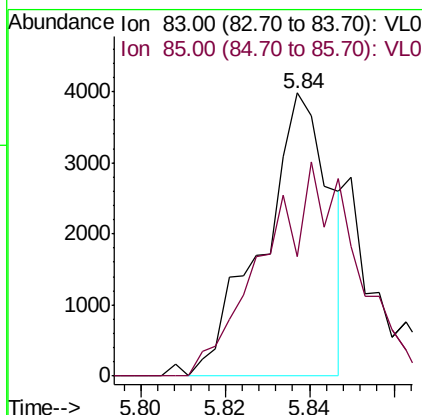
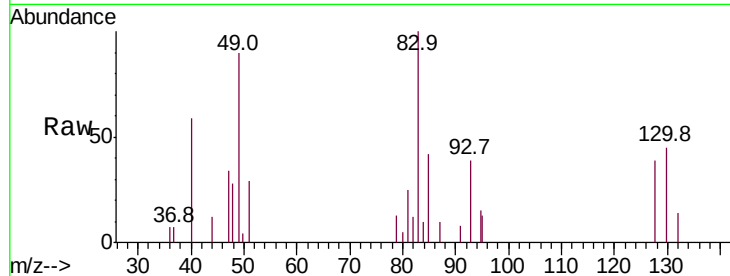




#29
Chloroform
Concen: 0.030 ppbv
RT: 5.84 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL033668.D
Acq: 6 May 2019 21:05

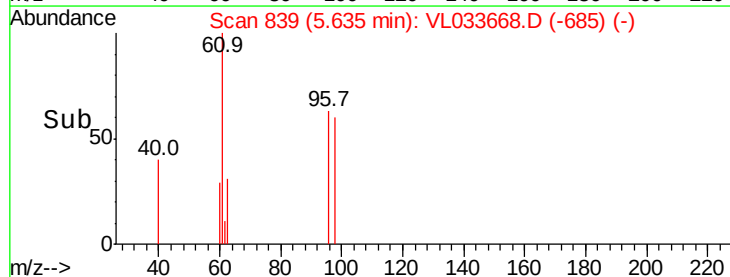
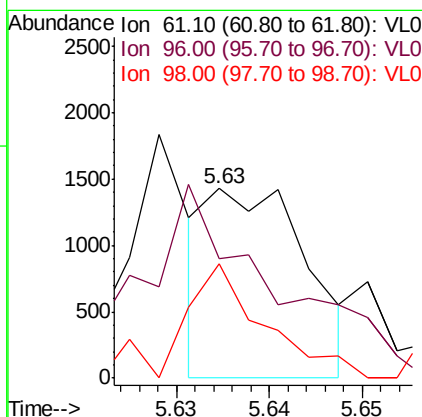
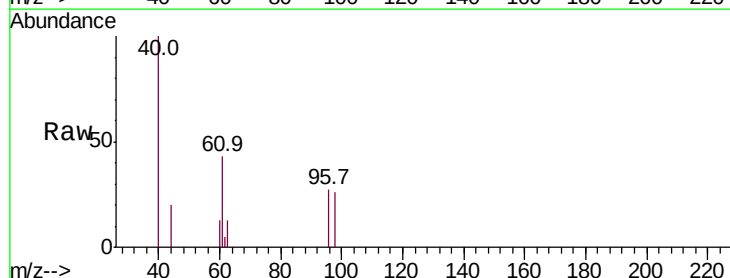
Instrument :
MSVOA_L
ClientSampled :

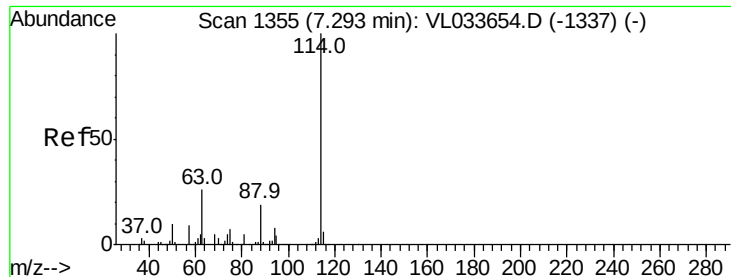
Tot Ion: 83 Resp: 4408
Ion Ratio Lower Upper
83 100
85 42.2 52.6 78.8#



#31
cis-1,2-Dichloroethene
Concen: 0.013 ppbv
RT: 5.63 min Scan# 839
Delta R.T. -0.01 min
Lab File: VL033668.D
Acq: 6 May 2019 21:05

Tgt Ion: 61 Resp: 1058
Ion Ratio Lower Upper
61 100
96 34.1 53.2 79.8#
98 67.6 34.2 51.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

ClientSampleId :

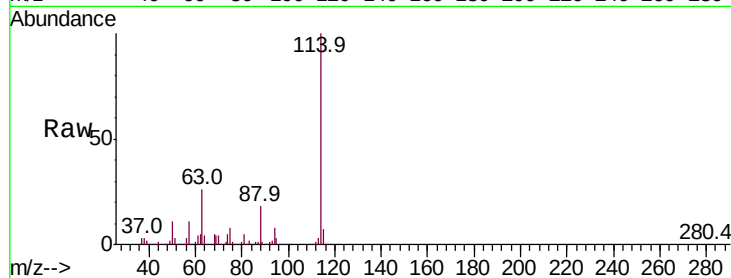
Tot Ion:114 Resp: 1976541

Ion Ratio Lower Upper

114 100

63 26.9 21.3 31.9

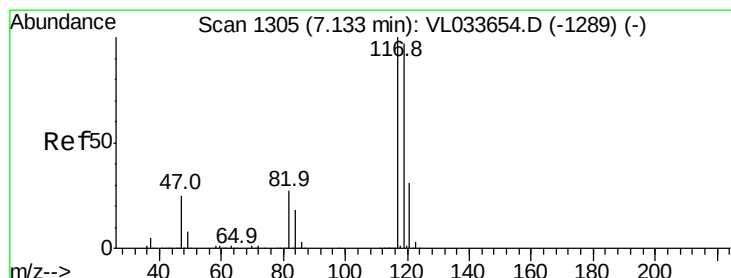
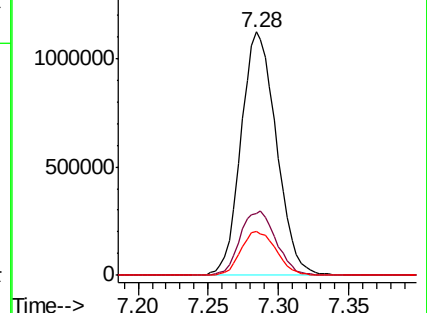
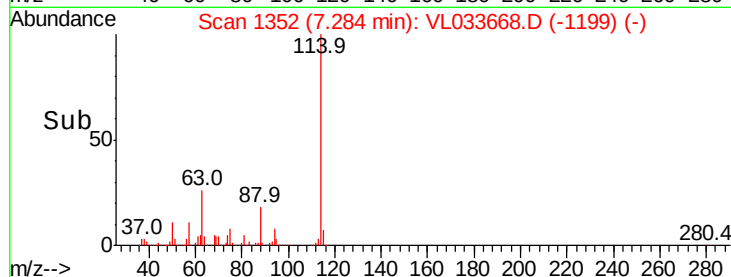
88 18.0 14.4 21.6



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



#35

Carbon Tetrachloride

Concen: 0.017 ppbv

RT: 7.12 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

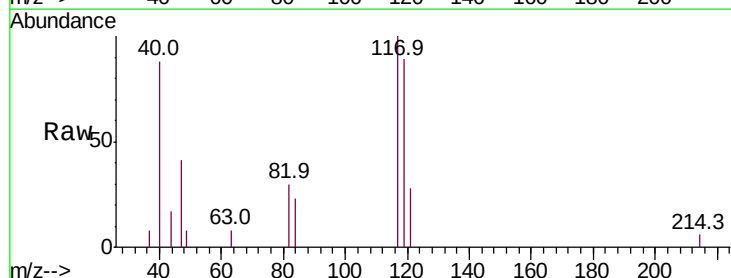
Tgt Ion:117 Resp: 2696

Ion Ratio Lower Upper

117 100

119 80.2 77.9 116.9

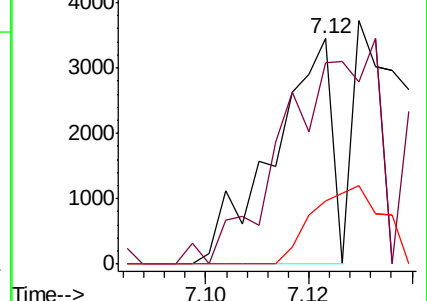
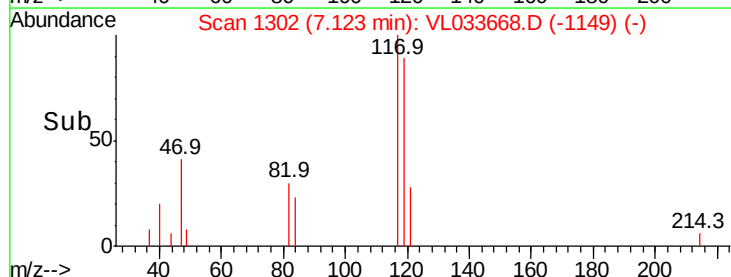
121 27.9 25.0 37.6

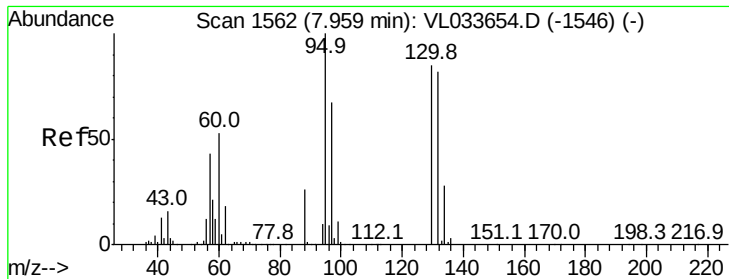


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#38

Trichloroethene

Concen: 0.019 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:130 Resp: 1227

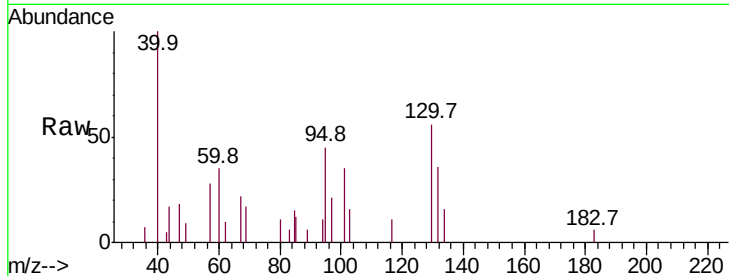
Ion Ratio Lower Upper

130 100

95 51.0 93.4 140.0#

132 52.4 76.2 114.4#

97 43.6 62.2 93.4#

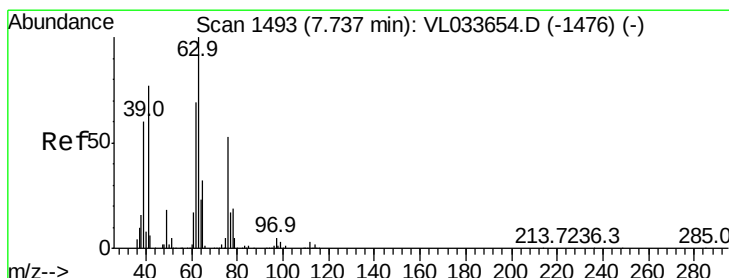
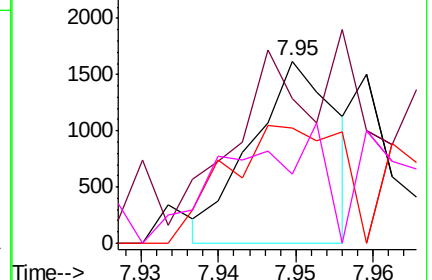
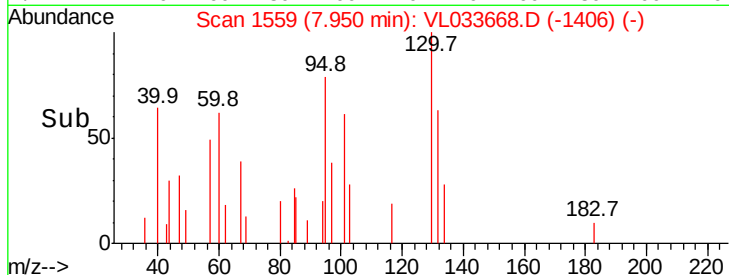


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.982 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

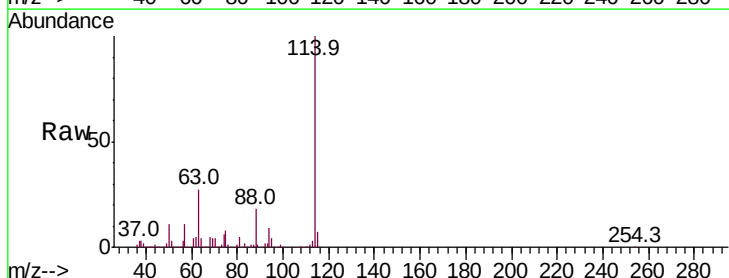
Tgt Ion: 63 Resp: 527248

Ion Ratio Lower Upper

63 100

41 0.1 61.6 92.4#

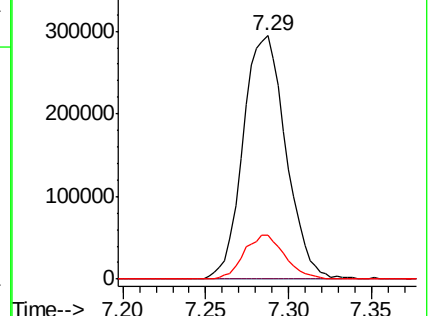
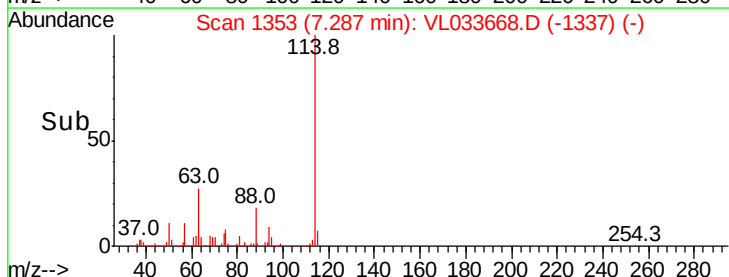
62 18.2 55.0 82.6#

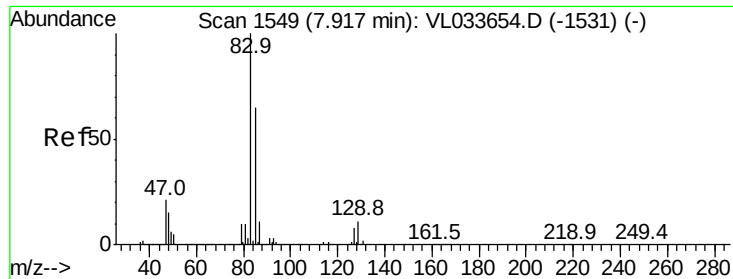


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.016 ppbv

RT: 7.90 min Scan# 1545

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :
MSVOA_L
ClientSampleId :

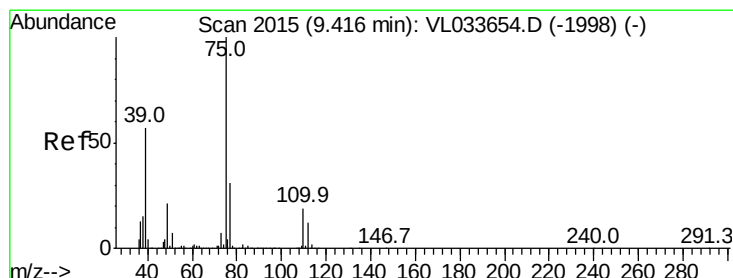
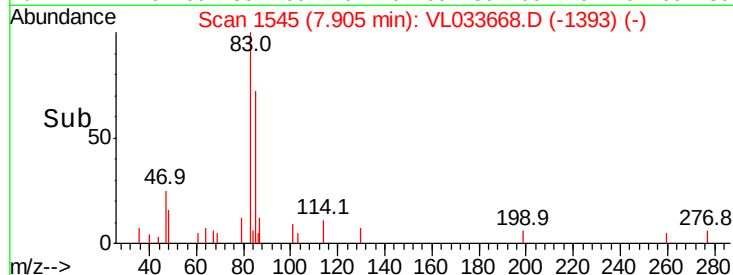
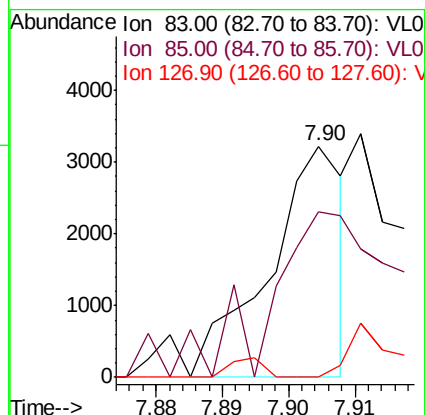
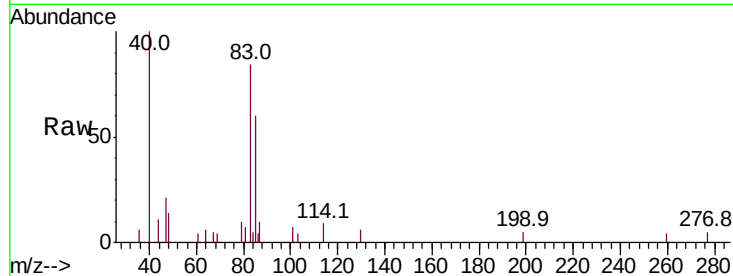
Tot Ion: 83 Resp: 2518

Ion Ratio Lower Upper

83 100

85 48.5 52.4 78.6#

127 0.0 6.6 9.8#



#45

t-1,3-Dichloropropene

Concen: 0.012 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033668.D

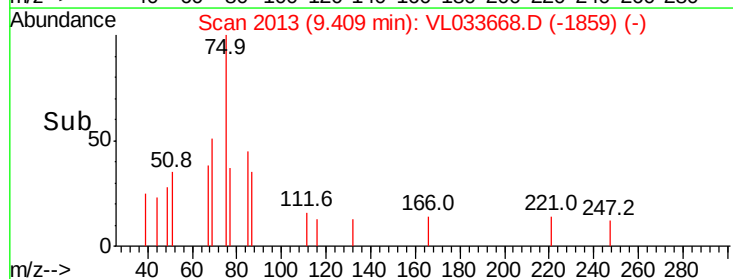
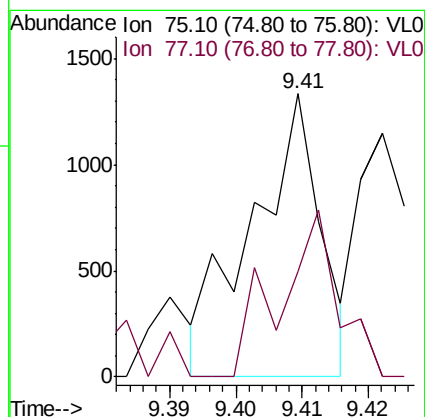
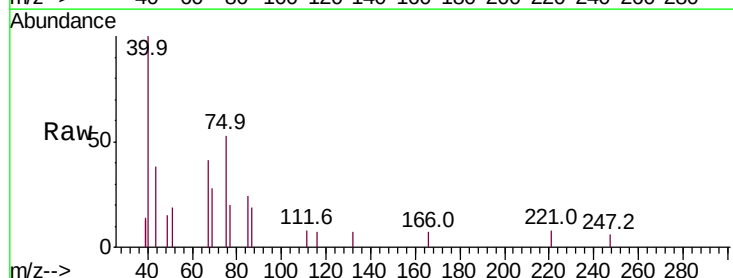
Acq: 6 May 2019 21:05

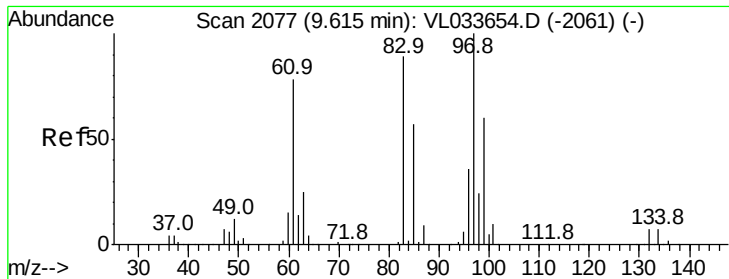
Tgt Ion: 75 Resp: 960

Ion Ratio Lower Upper

75 100

77 37.4 24.7 37.1#

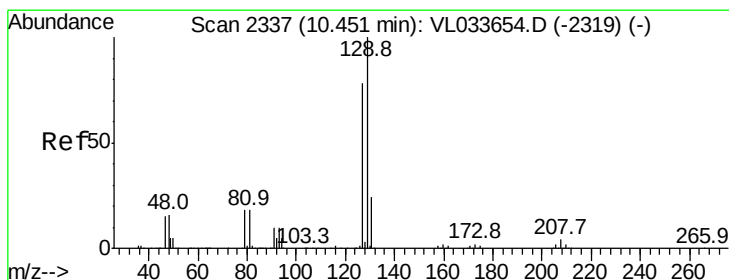
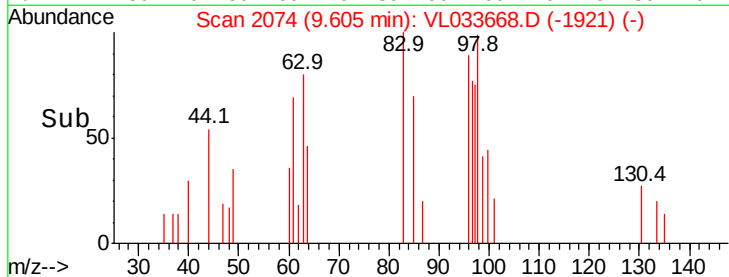
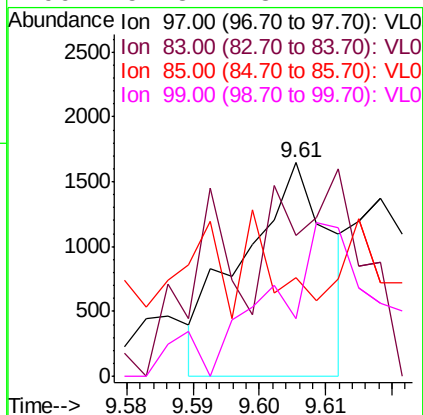
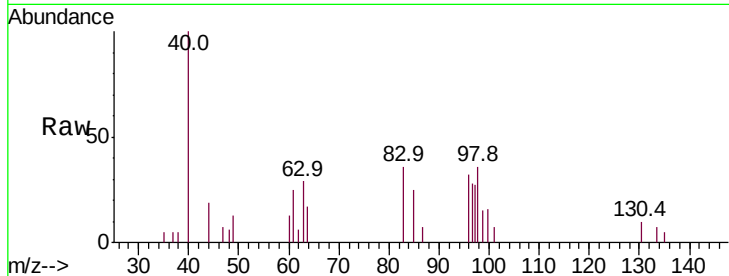




#47
 1,1,2-Trichloroethane
 Concen: 0.020 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. -0.01 min
 Lab File: VL033668.D
 Acq: 6 May 2019 21:05

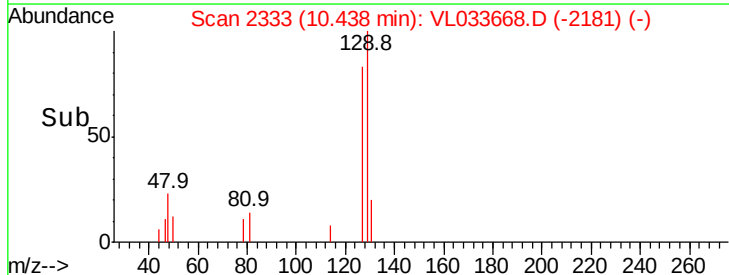
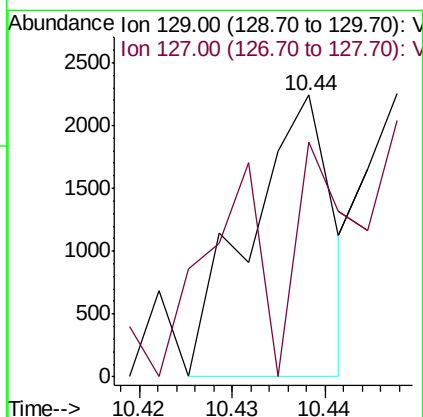
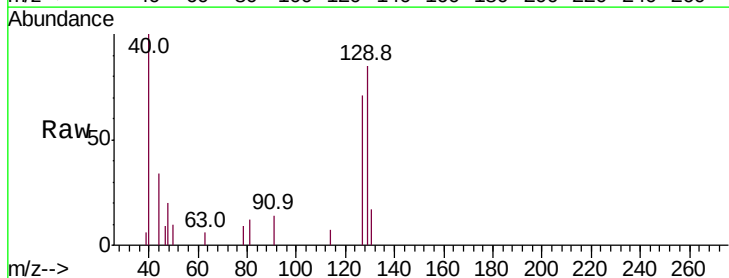
Instrument :
 MSVOA_L
 ClientSampleId :

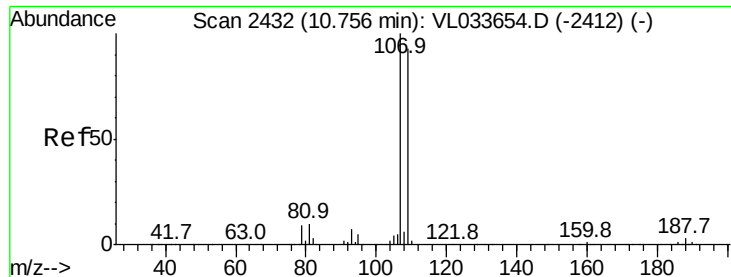
Tot Ion: 97 Resp: 1491
 Ion Ratio Lower Upper
 97 100
 83 60.3 70.9 106.3#
 85 1.1 45.8 68.6#
 99 54.8 48.2 72.4



#48
 Dibromochloromethane
 Concen: 0.011 ppbv
 RT: 10.44 min Scan# 2333
 Delta R.T. -0.01 min
 Lab File: VL033668.D
 Acq: 6 May 2019 21:05

Tgt Ion: 129 Resp: 1392
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.2#

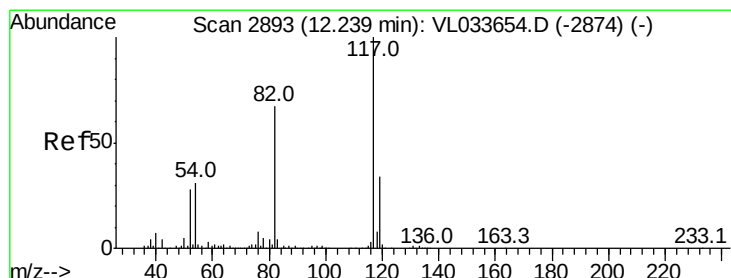
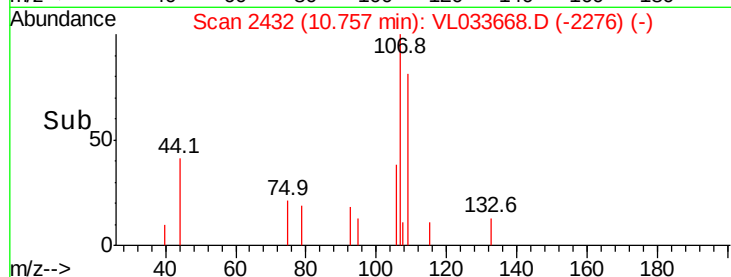
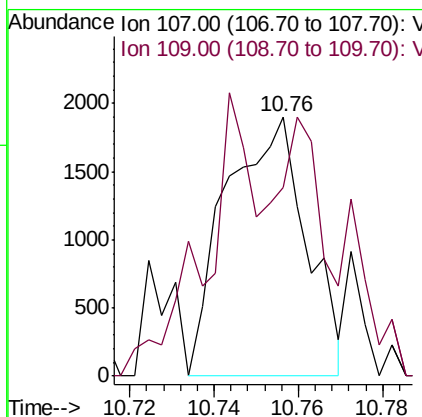
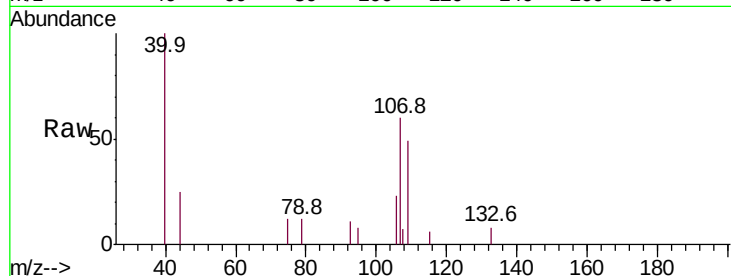




#54
 1,2-Dibromoethane
 Concen: 0.022 ppbv
 RT: 10.76 min Scan# 2432
 Delta R.T. 0.00 min
 Lab File: VL033668.D
 Acq: 6 May 2019 21:05

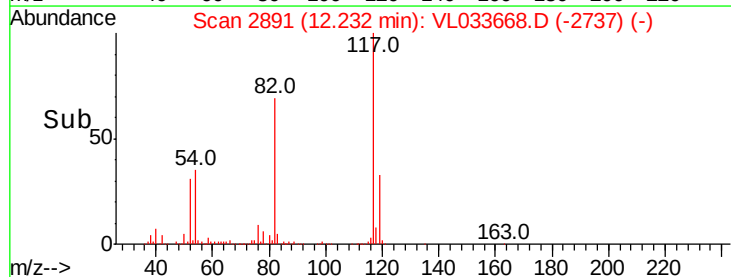
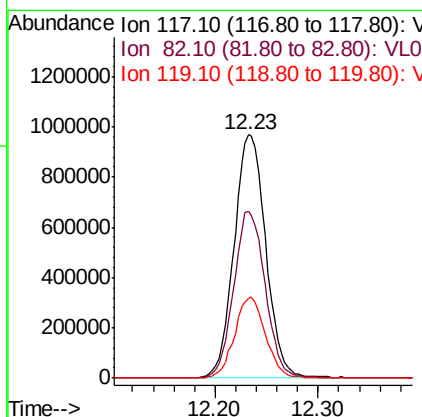
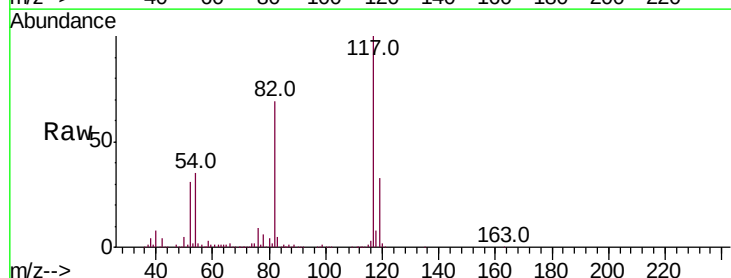
Instrument :
 MSVOA_L
 ClientSampled :

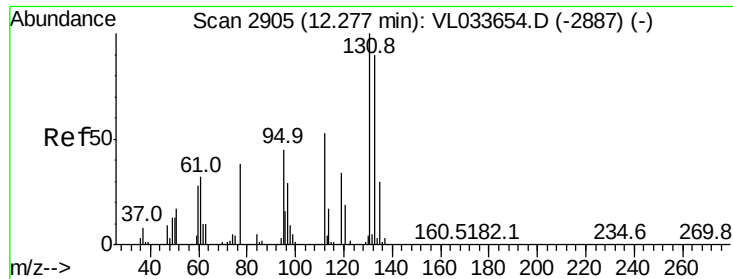
Tot Ion:107 Resp: 2513
 Ion Ratio Lower Upper
 107 100
 109 38.1 74.6 111.8#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.23 min Scan# 2891
 Delta R.T. -0.01 min
 Lab File: VL033668.D
 Acq: 6 May 2019 21:05

Tgt Ion:117 Resp: 2078777
 Ion Ratio Lower Upper
 117 100
 82 68.4 49.7 74.5
 119 32.5 24.8 37.2

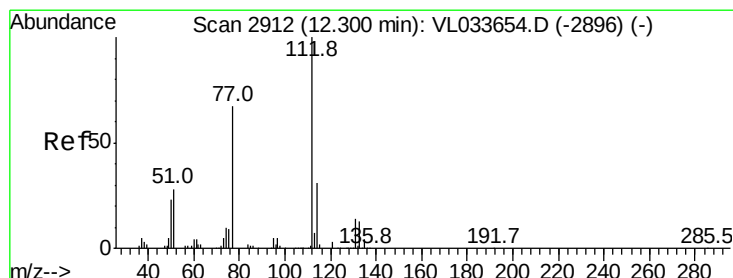
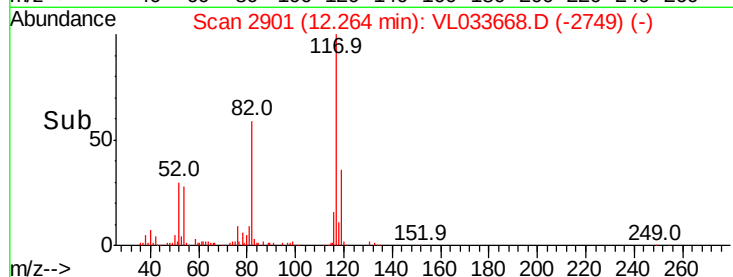
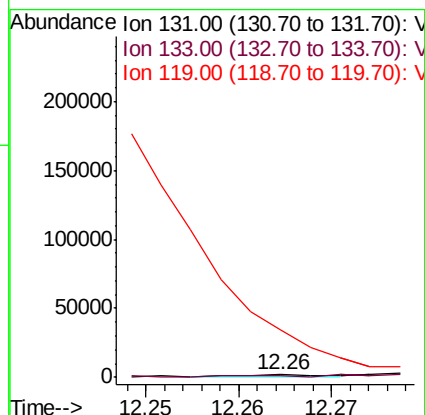
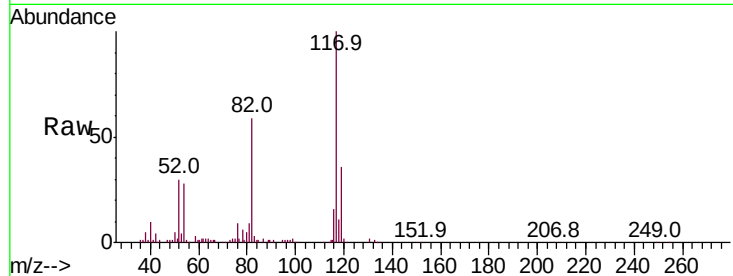




#56
1,1,1,2-Tetrachloroethane
Concen: 0.013 ppbv
RT: 12.26 min Scan# 2901
Delta R.T. -0.01 min
Lab File: VL033668.D
Acq: 6 May 2019 21:05

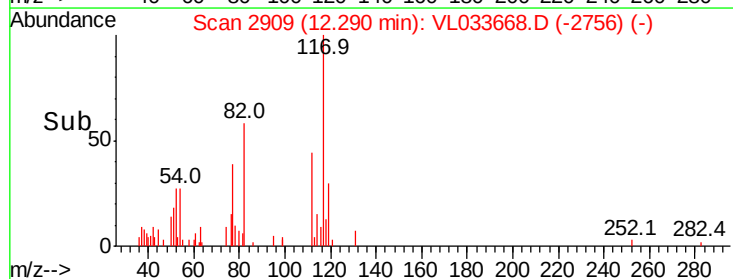
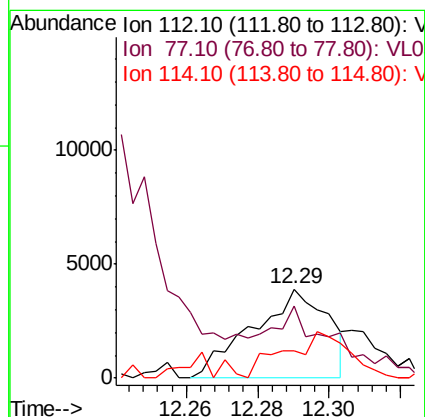
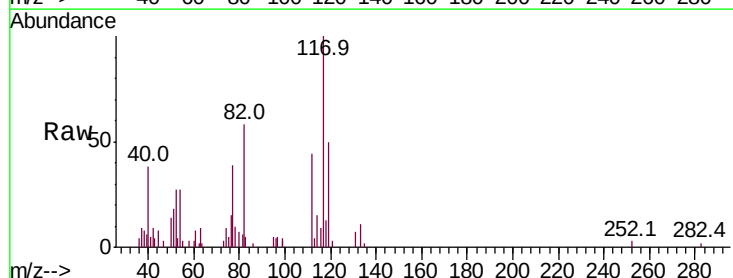
Instrument :
MSVOA_L
ClientSampleId :

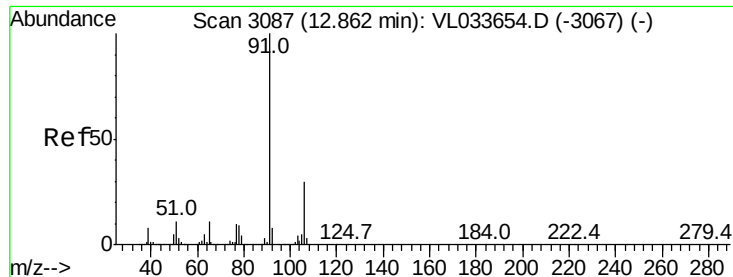
Tot Ion:131 Resp: 1248
Ion Ratio Lower Upper
131 100
133 0.0 76.0 114.0#
119 0.0 45.4 68.2#



#57
Chlorobenzene
Concen: 0.033 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL033668.D
Acq: 6 May 2019 21:05

Tgt Ion:112 Resp: 5703
Ion Ratio Lower Upper
112 100
77 30.3 54.4 81.6#
114 19.2 28.2 34.4#





#58

Ethyl Benzene

Concen: 0.010 ppbv

RT: 12.86 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

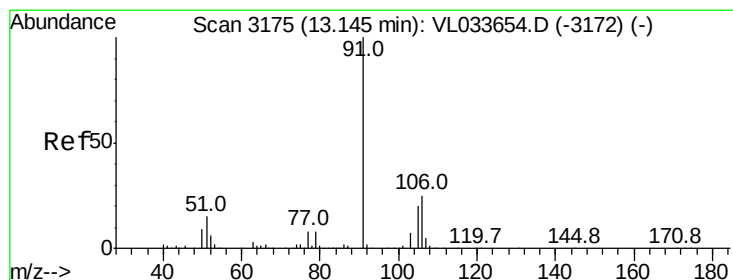
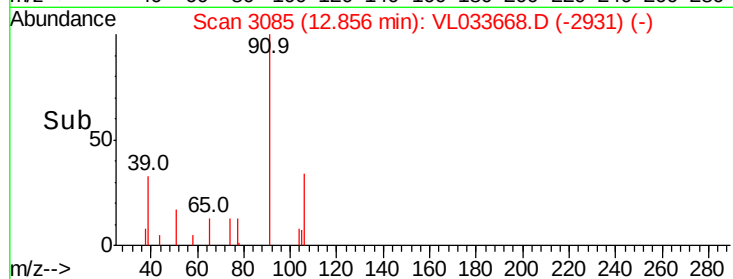
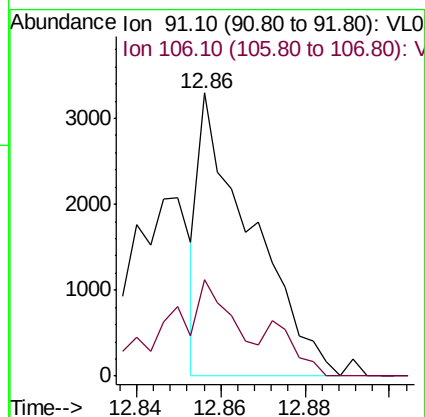
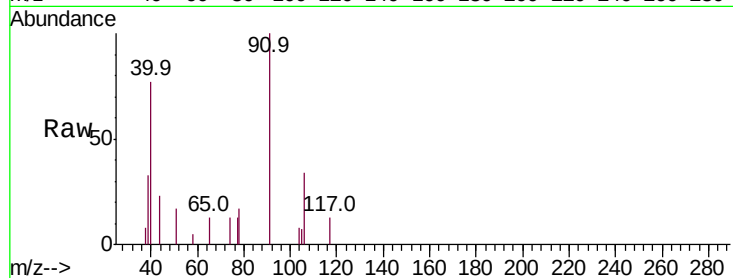
ClientSampled :

Tot Ion: 91 Resp: 2838

Ion Ratio Lower Upper

91 100

106 33.9 23.7 35.5



#59

m/p-Xylene

Concen: 0.014 ppbv

RT: 13.15 min Scan# 3175

Delta R.T. 0.00 min

Lab File: VL033668.D

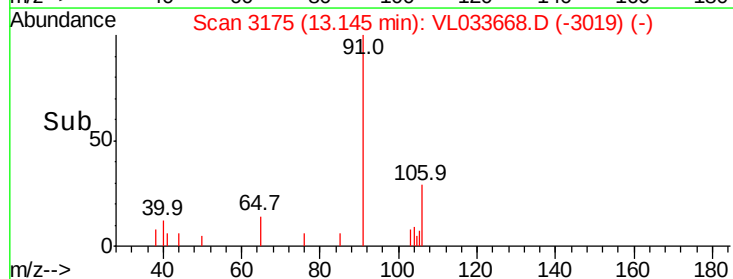
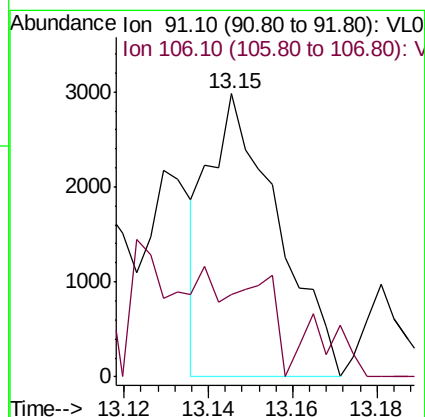
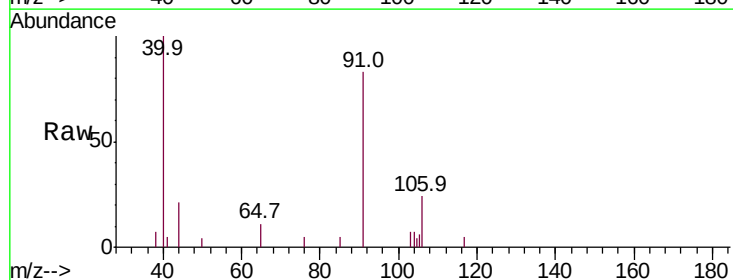
Acq: 6 May 2019 21:05

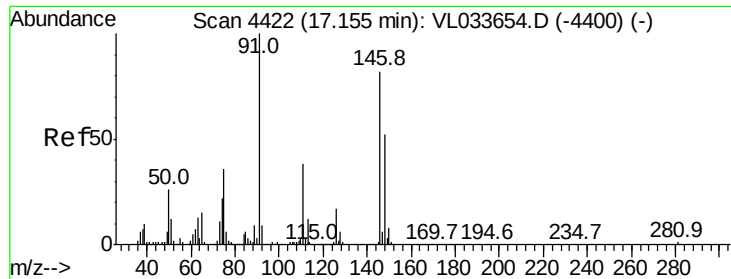
Tgt Ion: 91 Resp: 3405

Ion Ratio Lower Upper

91 100

106 74.3 36.2 54.2#





#66

Benzyl Chloride

Concen: 0.020 ppbv

RT: 17.15 min Scan# 4420

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

ClientSampleId :

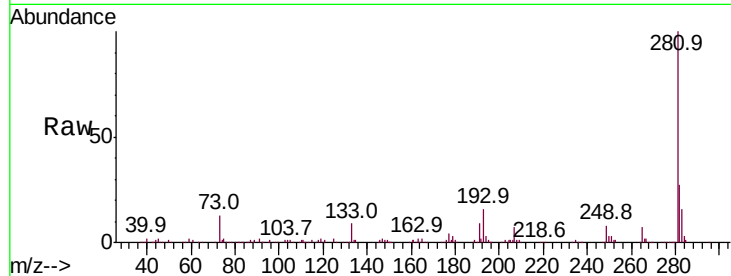
Tot Ion: 91 Resp: 2822

Ion Ratio Lower Upper

91 100

126 62.5 13.4 20.2#

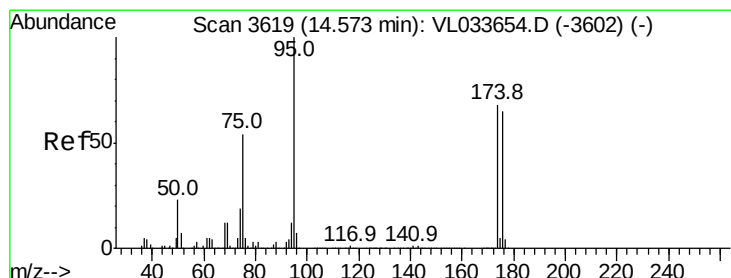
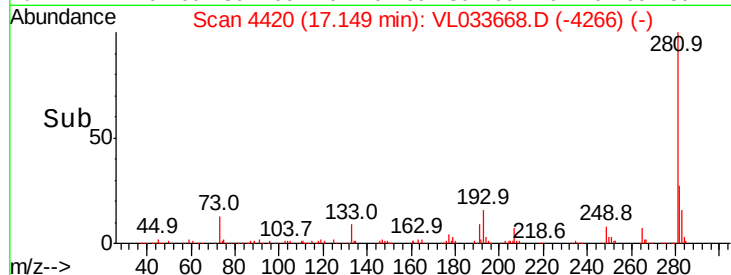
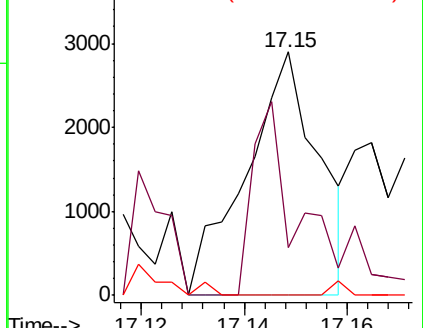
128 0.0 4.4 6.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.470 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

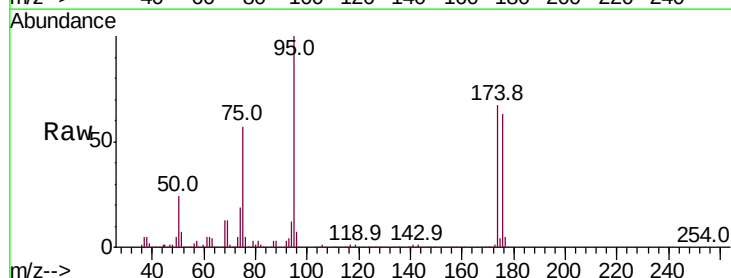
Tgt Ion: 95 Resp: 1784107

Ion Ratio Lower Upper

95 100

174 66.4 54.0 81.0

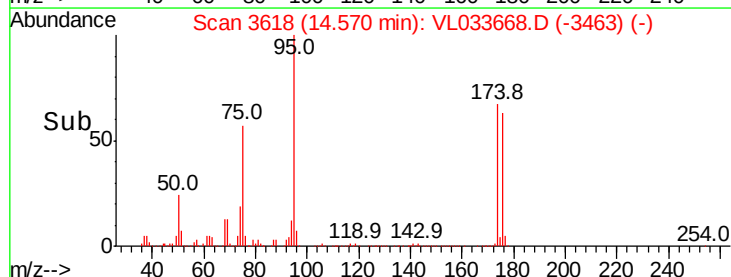
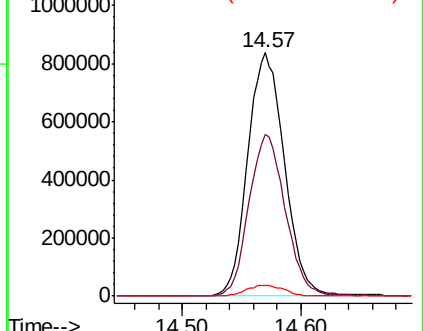
175 4.7 3.8 5.8

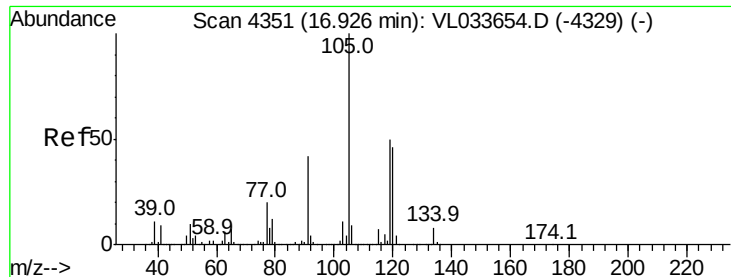


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74

1,2,4-Trimethylbenzene

Concen: 0.014 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 4344

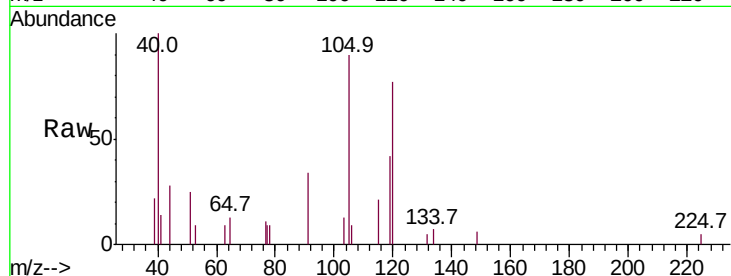
Ion Ratio Lower Upper

105 100

120 97.8 36.5 54.7#

91 43.1 33.7 50.5

77 11.8 16.3 24.5#

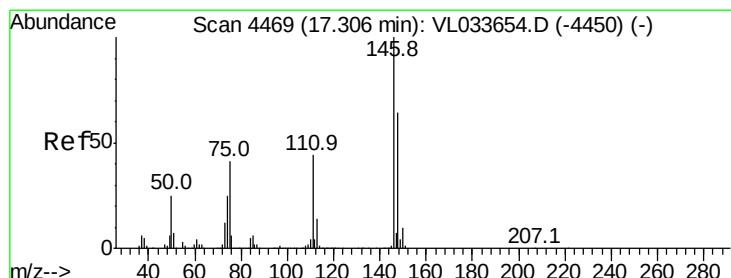
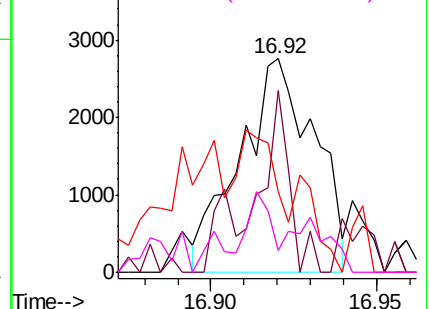
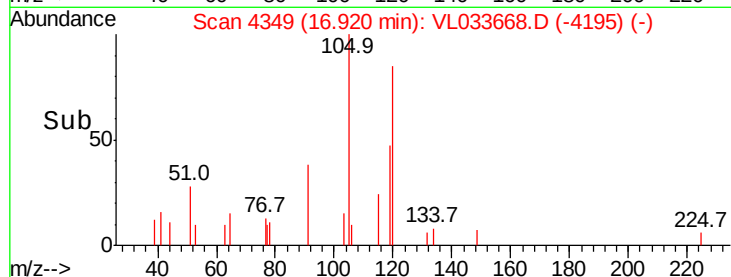


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#76

1,4-Dichlorobenzene

Concen: 0.012 ppbv

RT: 17.29 min Scan# 4465

Delta R.T. -0.01 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

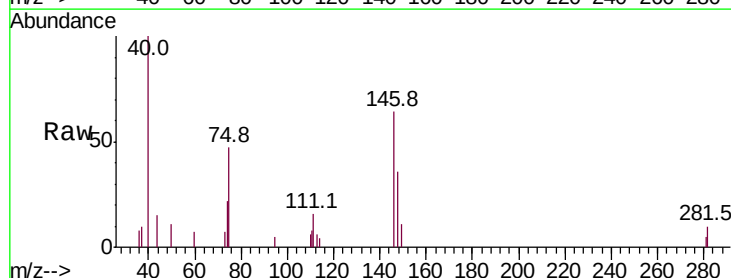
Tgt Ion:146 Resp: 2070

Ion Ratio Lower Upper

146 100

111 0.0 22.0 66.0#

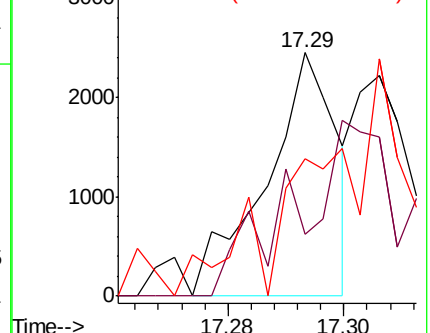
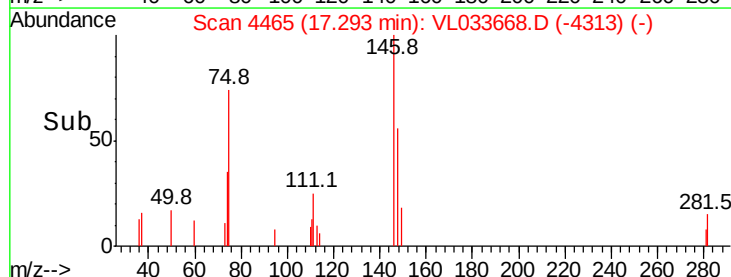
148 0.0 32.1 96.5#

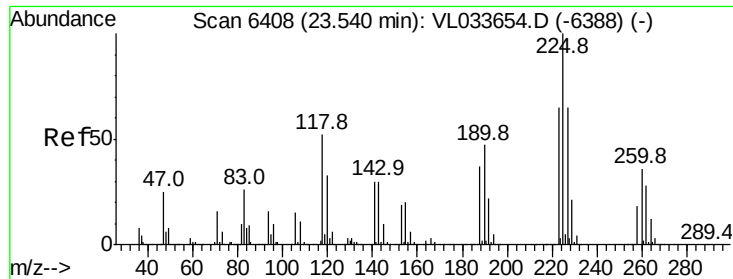


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.013 ppbv

RT: 23.52 min Scan# 6403

Delta R.T. -0.02 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

Instrument :

MSVOA_L

ClientSampleId :

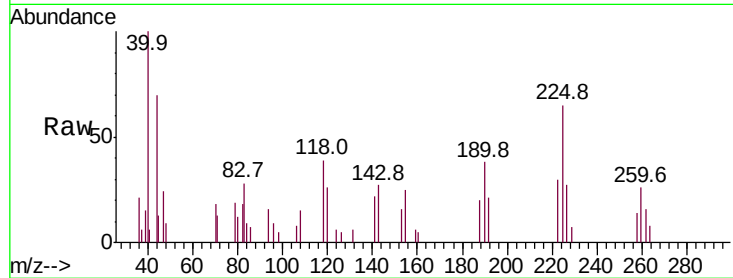
Tot Ion:225 Resp: 1783

Ion Ratio Lower Upper

225 100

223 0.0 50.7 76.1#

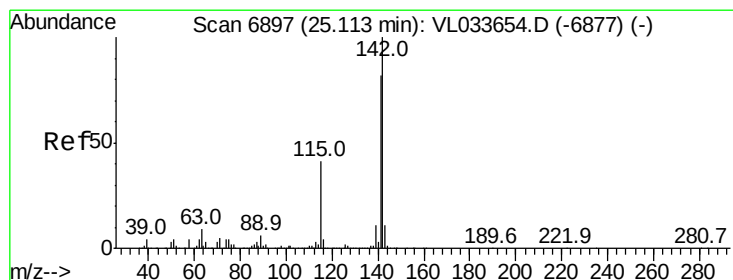
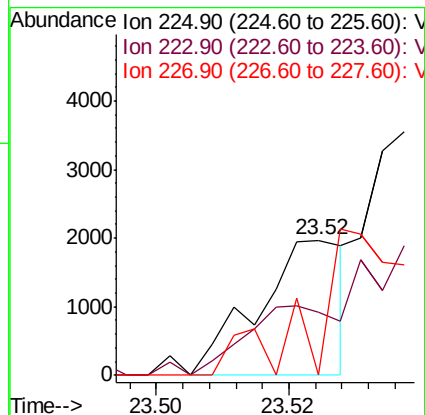
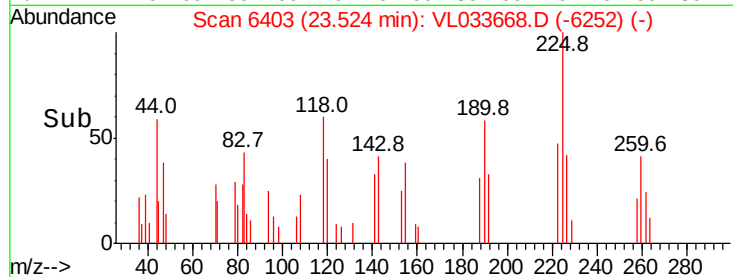
227 227.1 51.4 77.2#



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



#80

Naphthalene, 2-methyl-

Concen: 0.010 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033668.D

Acq: 6 May 2019 21:05

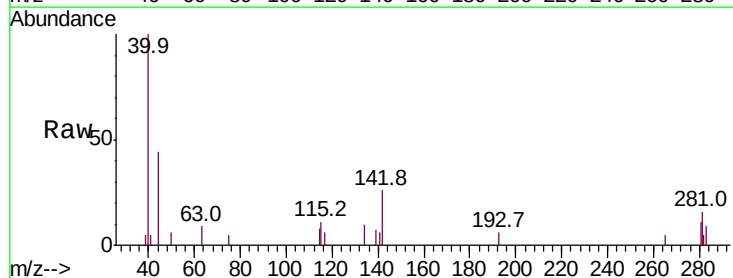
Tgt Ion:142 Resp: 1085

Ion Ratio Lower Upper

142 100

141 85.5 67.9 101.9

115 60.9 34.2 51.4#



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

