

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036979.D
 Acq On : 18 May 2021 21:37
 Operator : SY/AP
 Sample : M2430-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: May 19 03:15:48 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1323548	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3831489	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3493495	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2601699	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

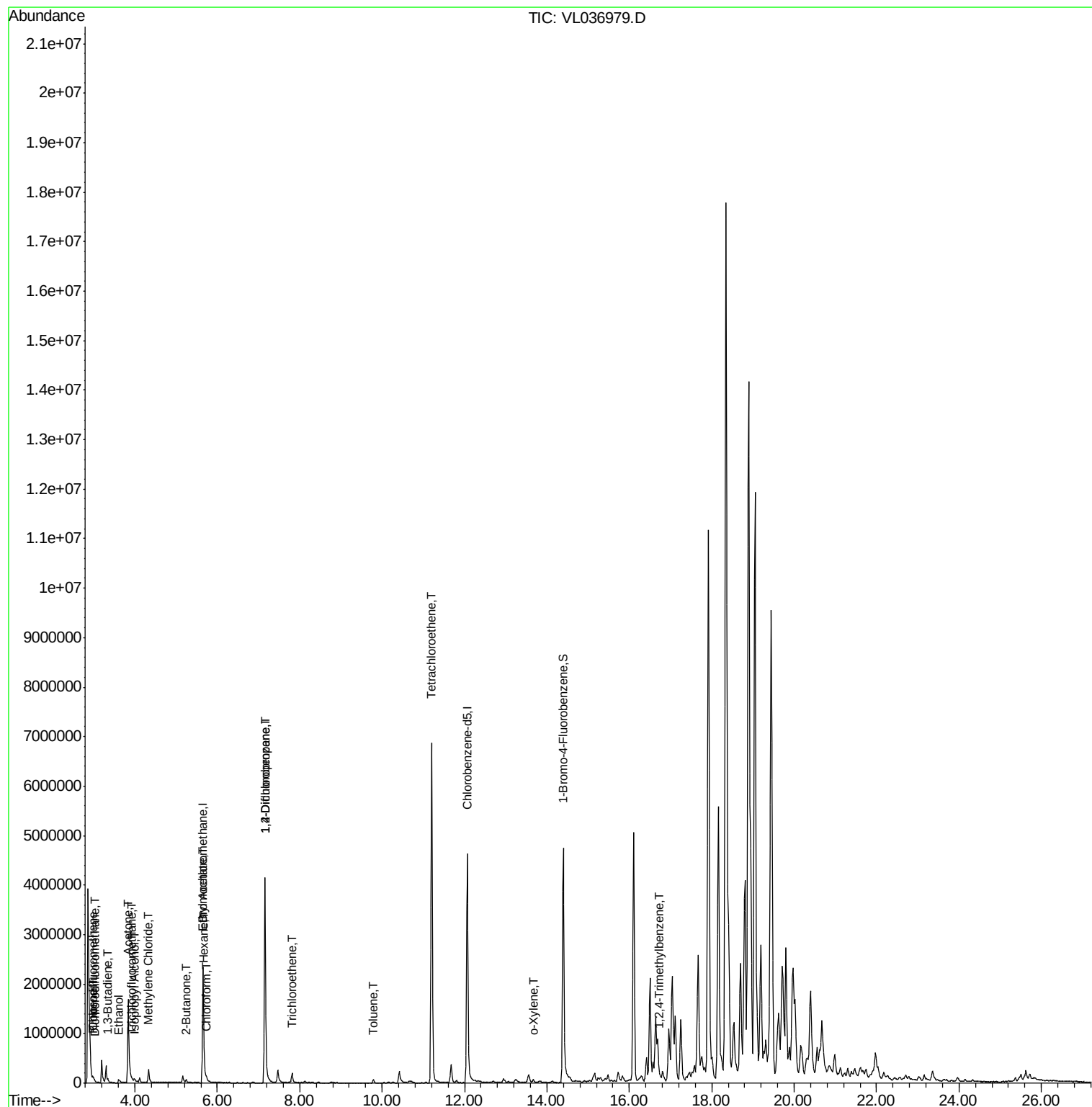
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	12716	0.057	ppbv #	80
3) Chlorodifluoromethane	2.98	51	156375	0.645	ppbv #	90
9) Propene	3.00	41	26464	0.305	ppbv	85
11) Trichlorofluoromethane	3.93	101	7768	0.037	ppbv	86
13) Ethanol	3.61	45	109625	9.463	ppbv	99
15) Acetone	3.83	43	2514987	18.552	ppbv	96
16) 1,3-Butadiene	3.33	39	6354	0.075	ppbv #	10
19) Isopropyl Alcohol	3.98	45	33283	0.457	ppbv #	30
20) Methylene Chloride	4.33	84	108103	1.488	ppbv	98
25) Ethyl Acetate	5.66	43	22981	0.071	ppbv #	83
26) Hexane	5.67	57	70067	0.421	ppbv #	44
29) Chloroform	5.74	83	46781	0.199	ppbv	84
34) 2-Butanone	5.24	43	67065	0.481	ppbv #	76
38) Trichloroethene	7.81	130	69649	0.493	ppbv	91
39) 1,2-Dichloropropane	7.16	63	904588	7.115	ppbv #	25
52) Tetrachloroethene	11.20	164	2007844	15.299	ppbv	96
53) Toluene	9.79	91	30416	0.077	ppbv #	29
60) o-Xylene	13.67	91	25994	0.067	ppbv	70
74) 1,2,4-Trimethylbenzene	16.74	105	61721	0.138	ppbv #	70

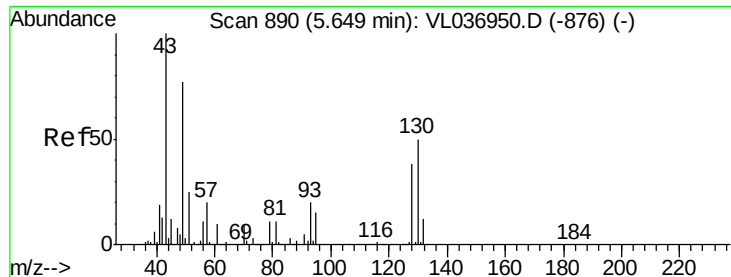
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051821\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration

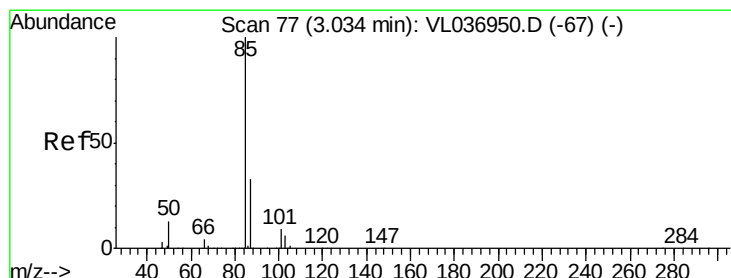
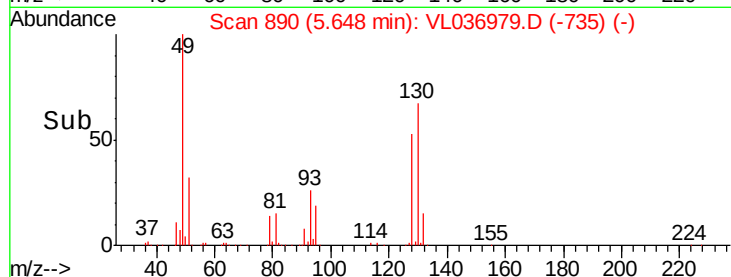
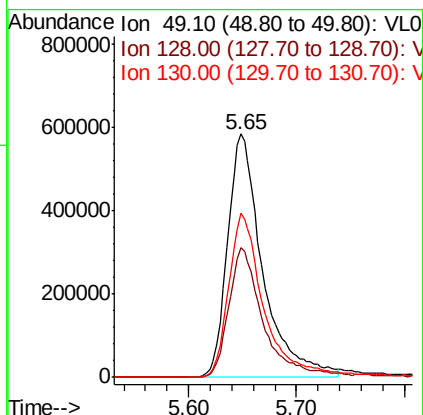
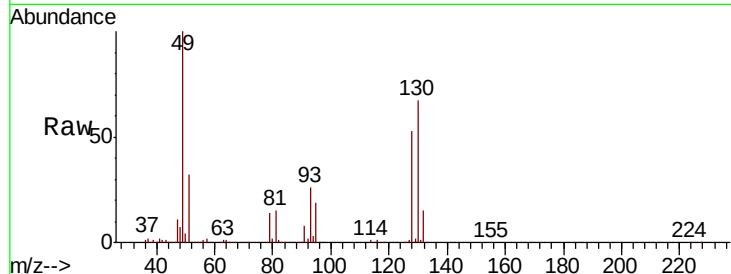




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 890
 Delta R.T. -0.00 min
 Lab File: VL036979.D
 Acq: 18 May 2021 21:37

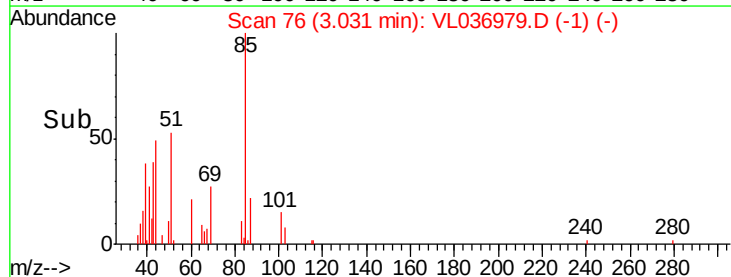
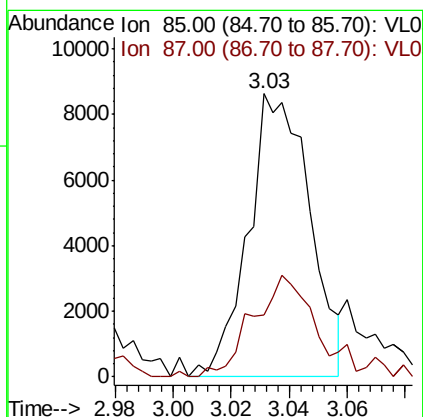
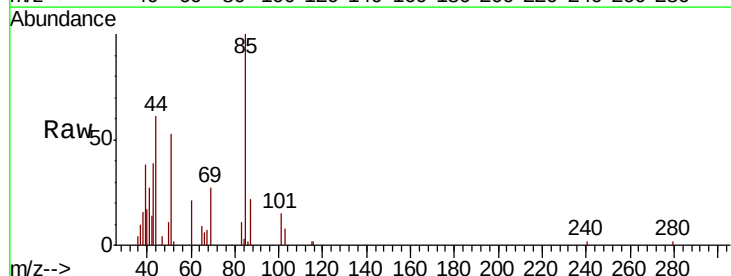
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

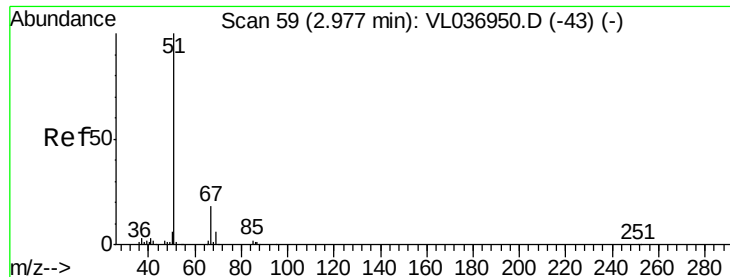
Tot Ion: 49 Resp: 1323548
 Ion Ratio Lower Upper
 49 100
 128 53.8 26.9 80.7
 130 69.3 33.8 101.4



#2
 Dichlorodifluoromethane
 Concen: 0.057 ppbv
 RT: 3.03 min Scan# 76
 Delta R.T. -0.00 min
 Lab File: VL036979.D
 Acq: 18 May 2021 21:37

Tgt Ion: 85 Resp: 12716
 Ion Ratio Lower Upper
 85 100
 87 21.9 26.6 39.8#





#3

Chlorodifluoromethane

Concen: 0.645 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

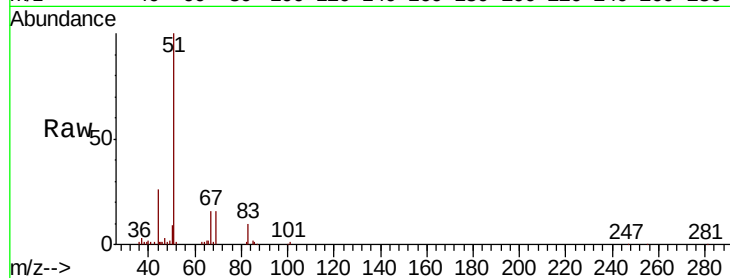
SV1DL

Tot Ion: 51 Resp: 156375

Ion Ratio Lower Upper

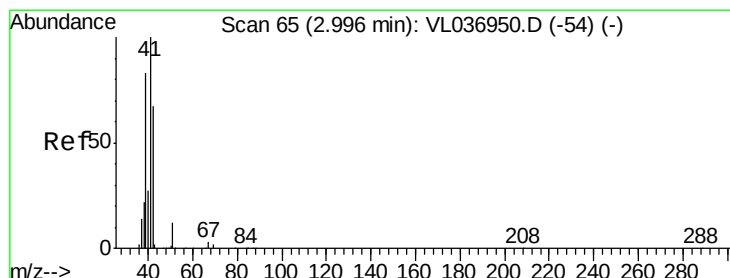
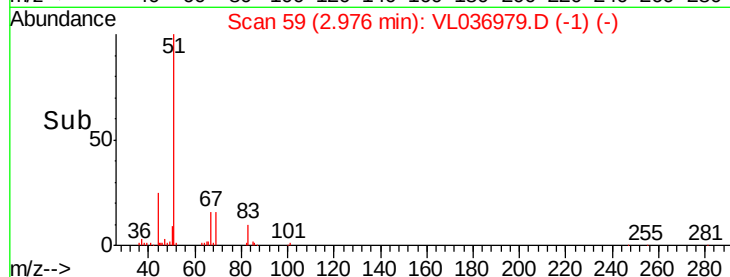
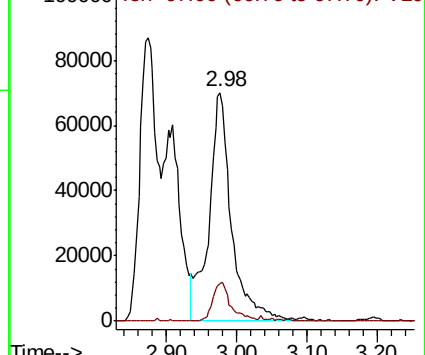
51 100

67 13.8 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.305 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL036979.D

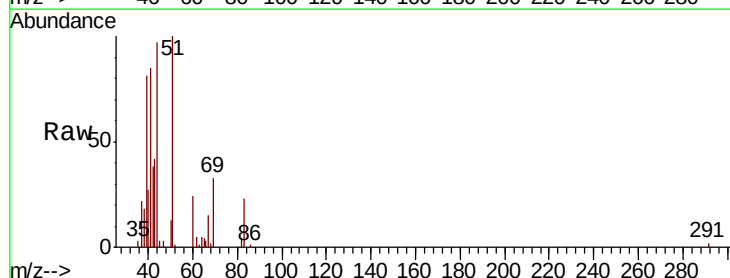
Acq: 18 May 2021 21:37

Tgt Ion: 41 Resp: 26464

Ion Ratio Lower Upper

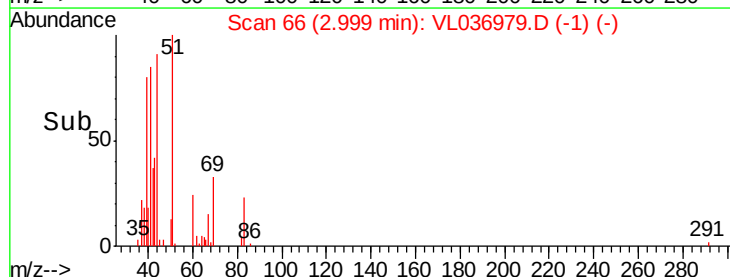
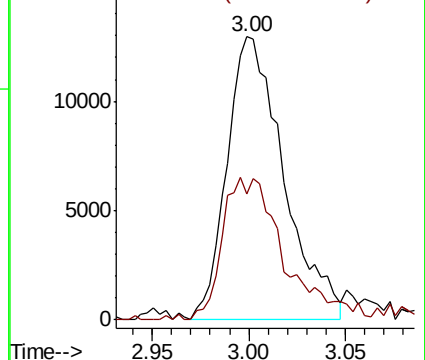
41 100

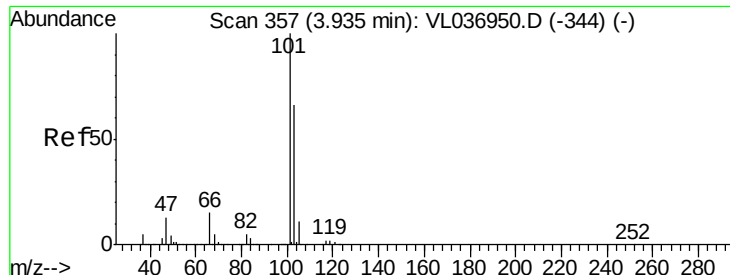
42 55.3 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

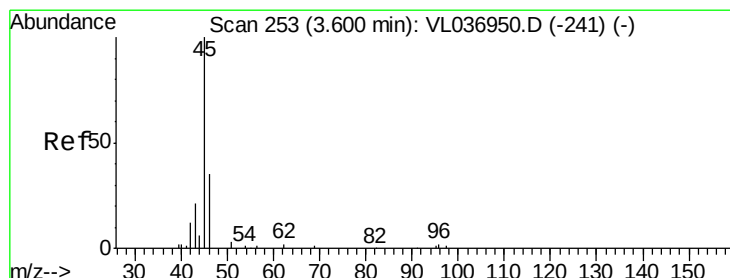
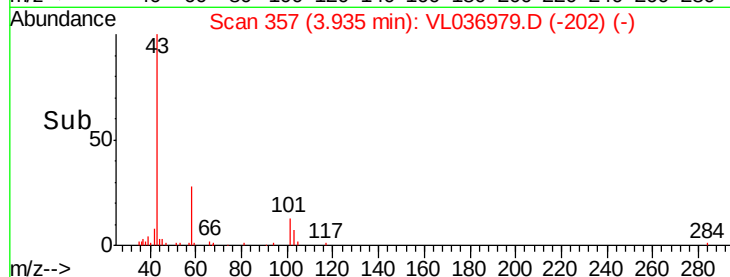
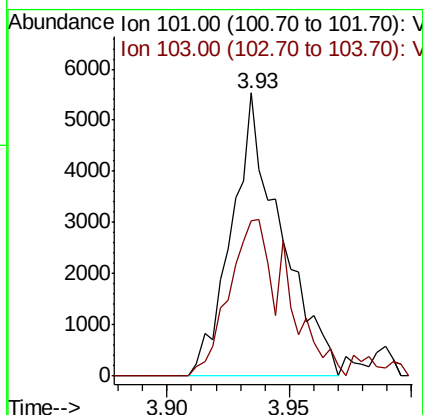
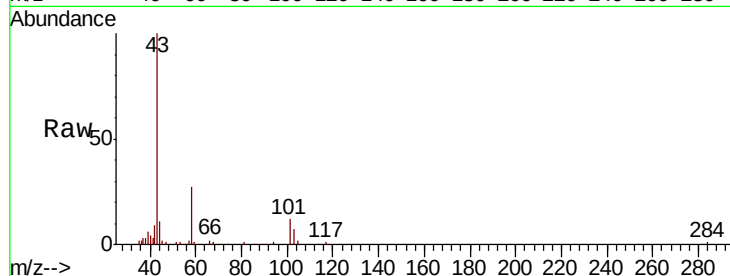




#11
 Trichlorofluoromethane
 Concen: 0.037 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VL036979.D
 Acq: 18 May 2021 21:37

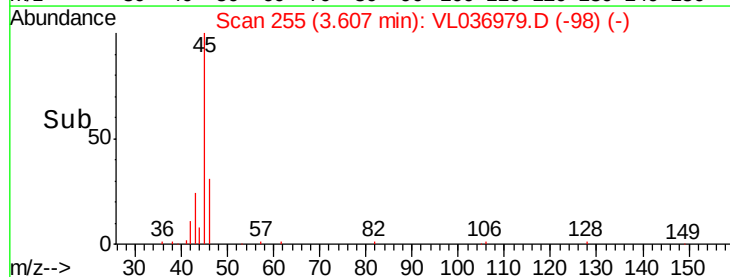
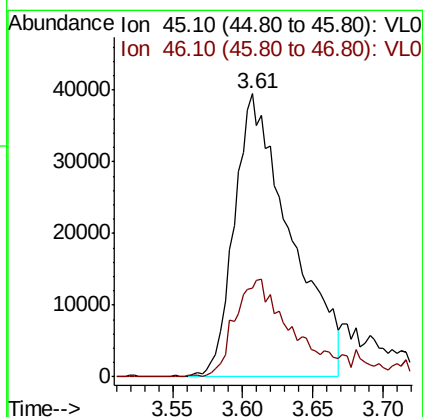
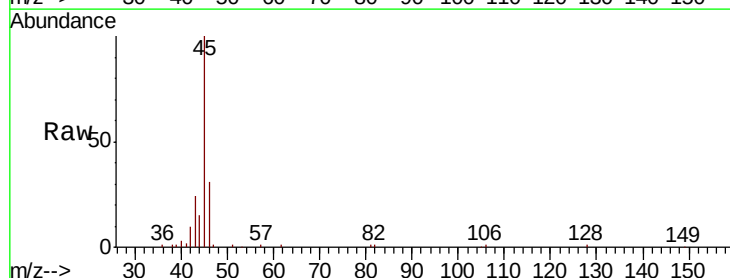
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

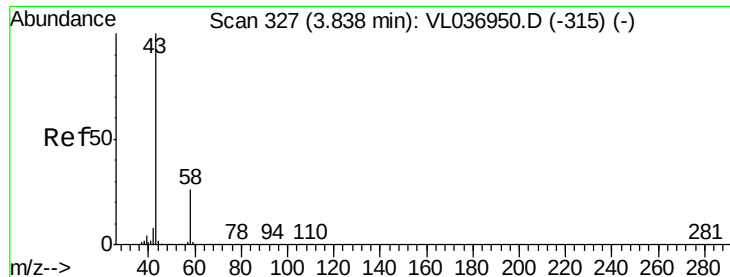
Tot Ion:101 Resp: 7768
 Ion Ratio Lower Upper
 101 100
 103 54.9 52.6 79.0



#13
 Ethanol
 Concen: 9.463 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. 0.01 min
 Lab File: VL036979.D
 Acq: 18 May 2021 21:37

Tgt Ion: 45 Resp: 109625
 Ion Ratio Lower Upper
 45 100
 46 40.4 16.3 65.3





#15

Acetone

Concen: 18.552 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

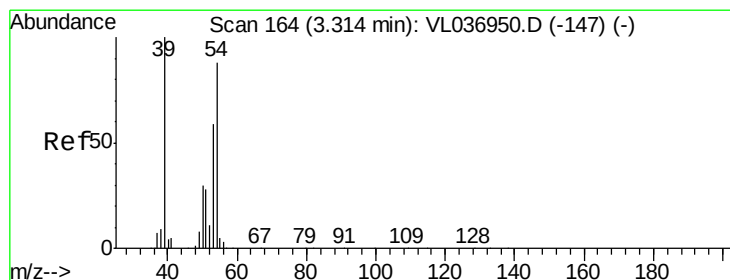
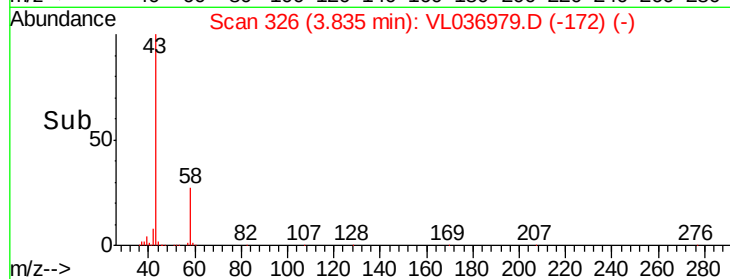
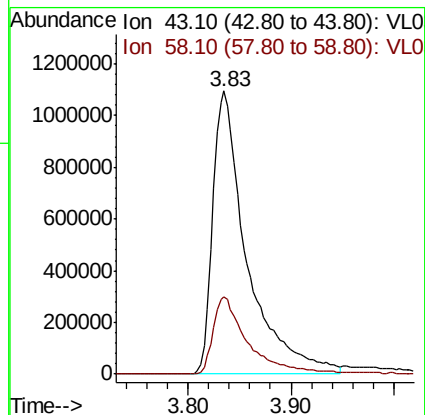
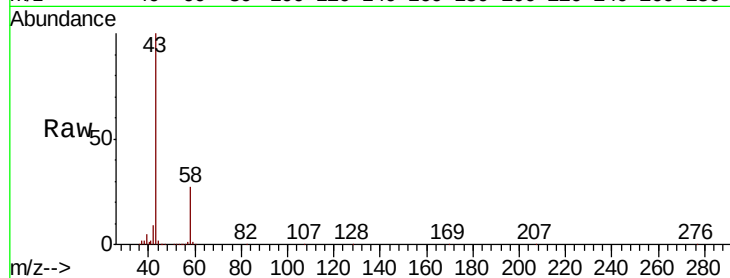
SV1DL

Tot Ion: 43 Resp: 2514987

Ion Ratio Lower Upper

43 100

58 27.9 24.0 36.0



#16

1,3-Butadiene

Concen: 0.075 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.02 min

Lab File: VL036979.D

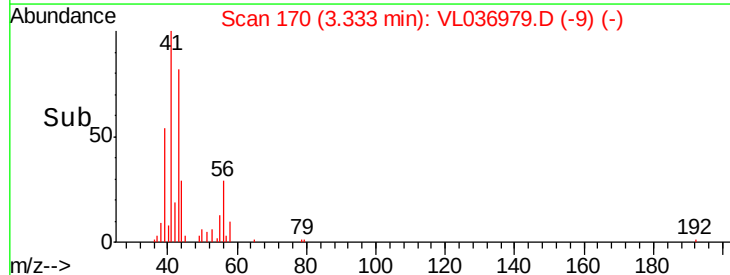
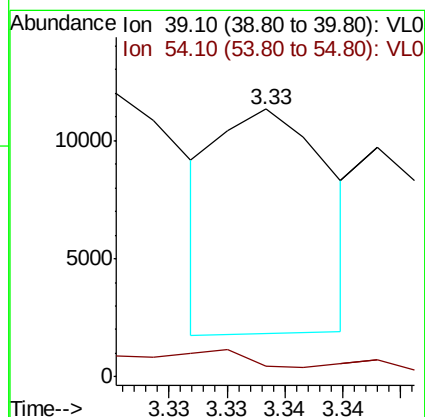
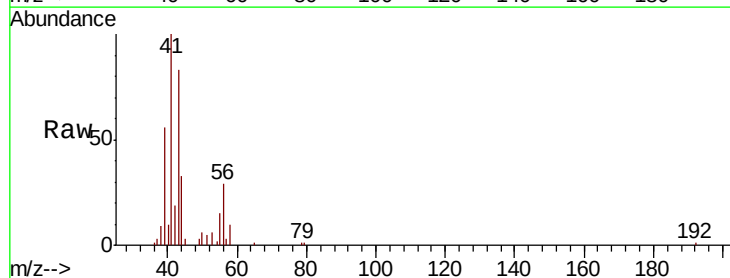
Acq: 18 May 2021 21:37

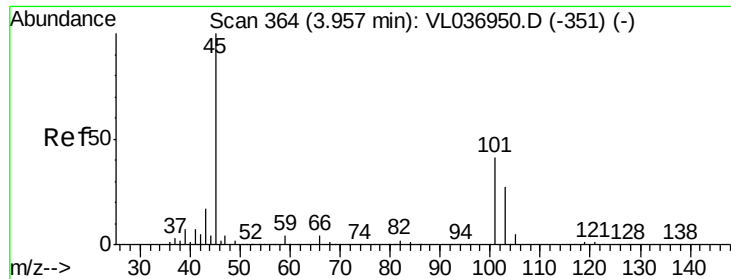
Tgt Ion: 39 Resp: 6354

Ion Ratio Lower Upper

39 100

54 0.0 63.2 94.8#





#19

Isopropyl Alcohol

Concen: 0.457 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

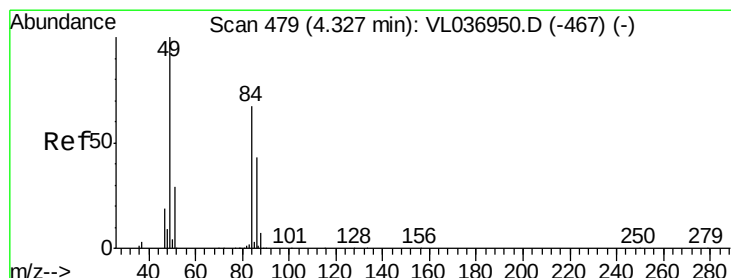
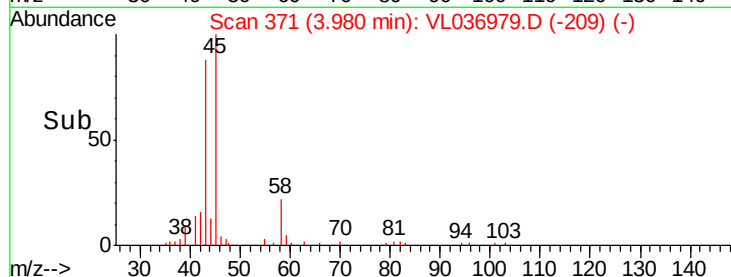
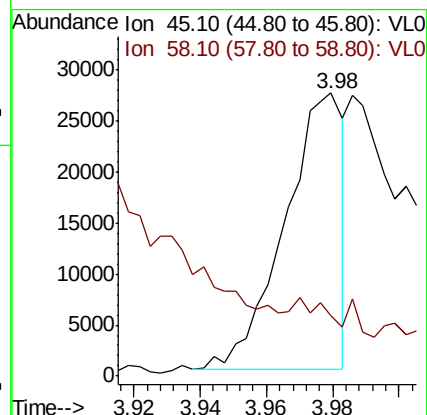
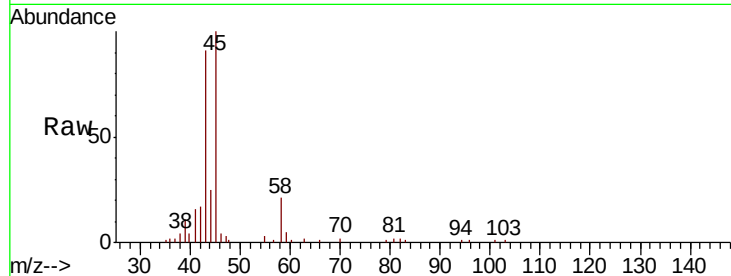
SV1DL

Tot Ion: 45 Resp: 33283

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#



#20

Methylene Chloride

Concen: 1.488 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Tgt Ion: 84 Resp: 108103

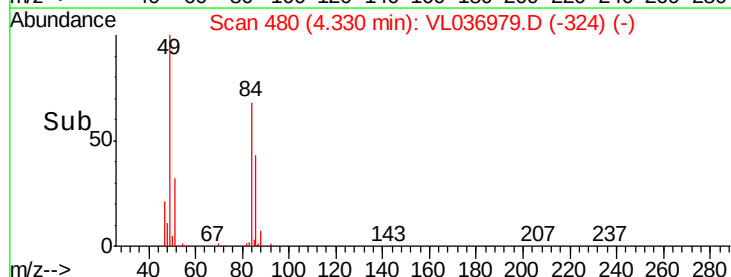
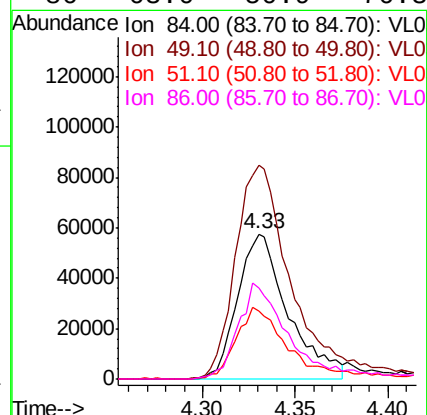
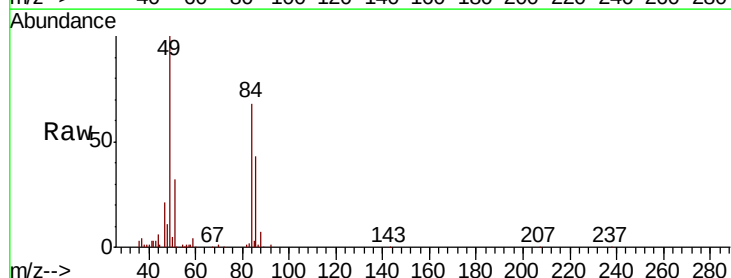
Ion Ratio Lower Upper

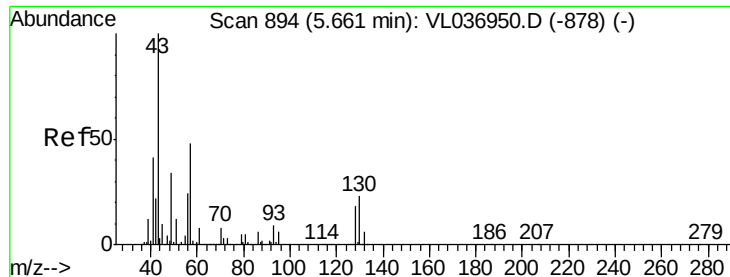
84 100

49 146.7 119.8 179.6

51 46.3 35.1 52.7

86 63.0 50.9 76.3





#25

Ethyl Acetate

Concen: 0.071 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Instrument :

MSVOA_L

ClientSampleID :

SV1DL

Tot Ion: 43 Resp: 22981

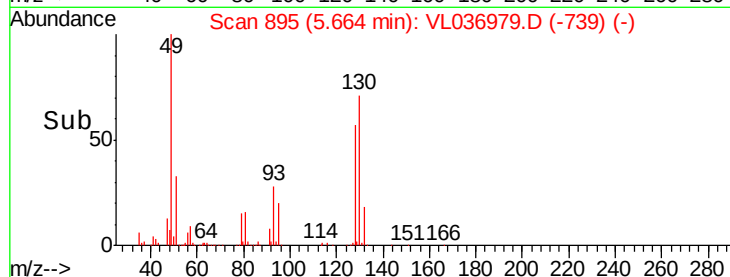
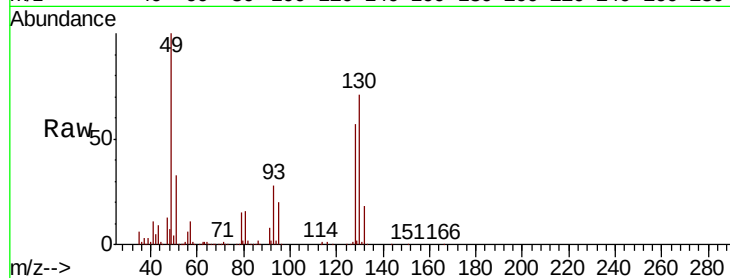
Ion Ratio Lower Upper

43 100

45 5.0 7.8 11.8#

61 2.5 7.8 11.8#

70 0.0 5.6 8.4#

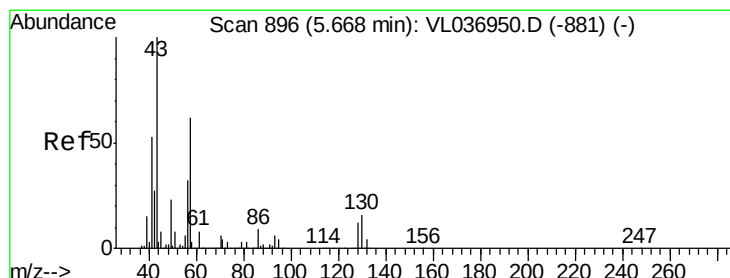
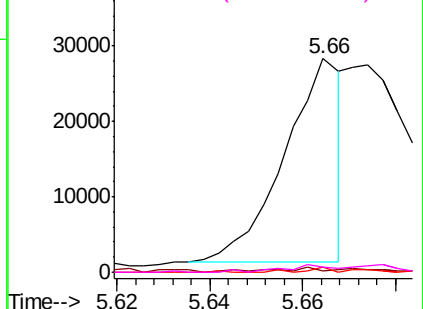


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.421 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Tgt Ion: 57 Resp: 70067

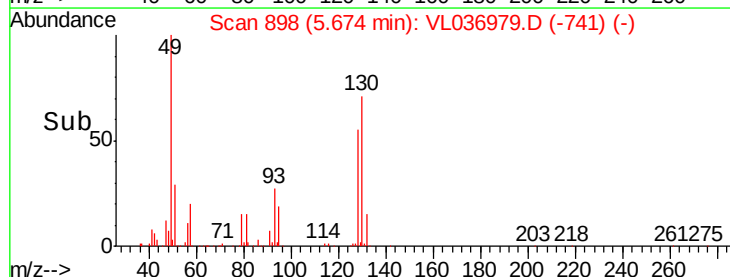
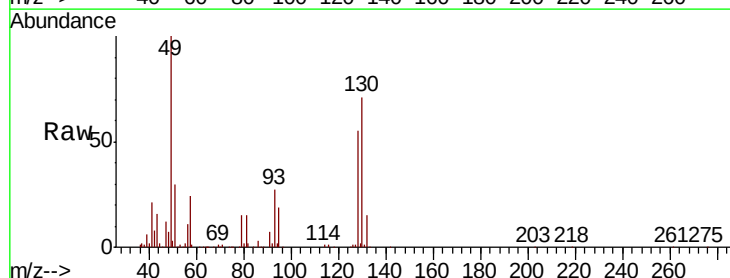
Ion Ratio Lower Upper

57 100

41 114.1 70.5 105.7#

43 87.1 165.8 248.8#

56 63.8 42.2 63.4#

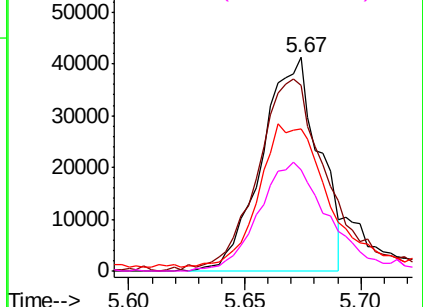


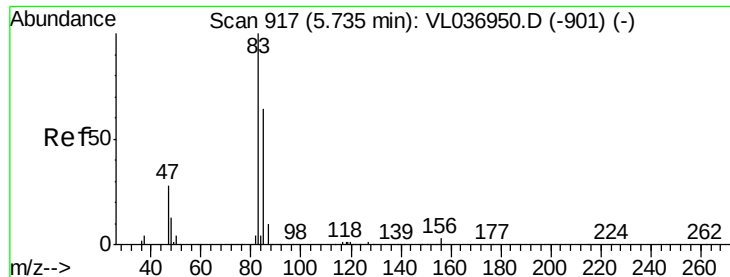
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#29

Chloroform

Concen: 0.199 ppbv

RT: 5.74 min Scan# 918

Delta R.T. 0.00 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

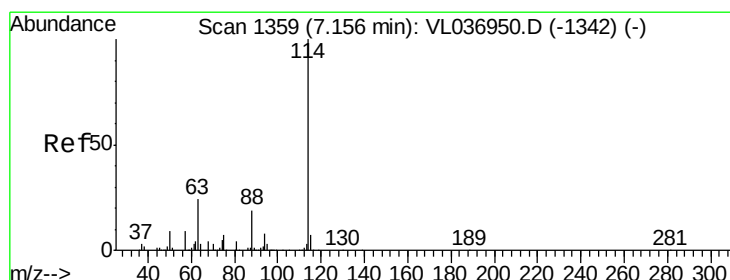
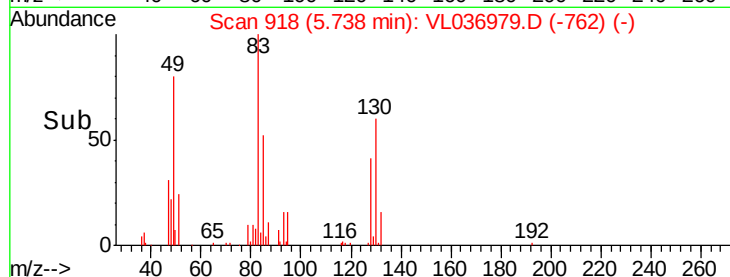
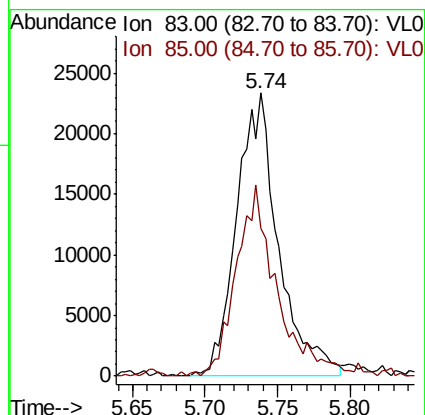
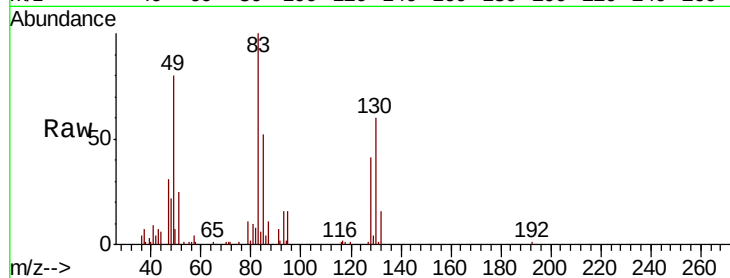
SV1DL

Tot Ion: 83 Resp: 46781

Ion Ratio Lower Upper

83 100

85 51.3 51.1 76.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

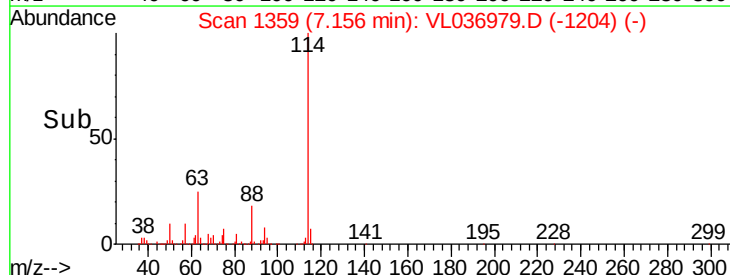
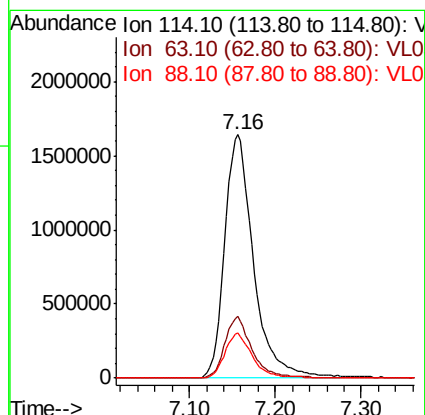
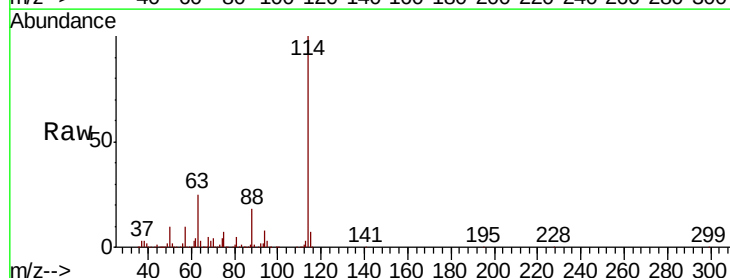
Tgt Ion: 114 Resp: 3831489

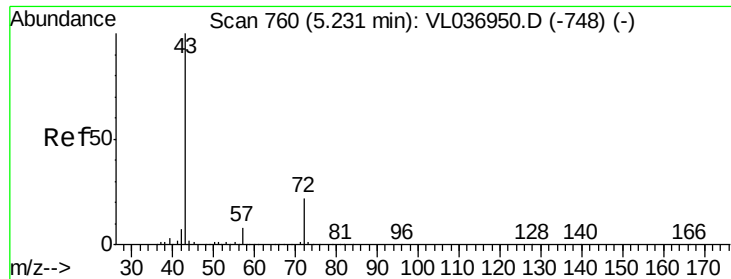
Ion Ratio Lower Upper

114 100

63 24.0 19.6 29.4

88 17.9 14.6 21.8

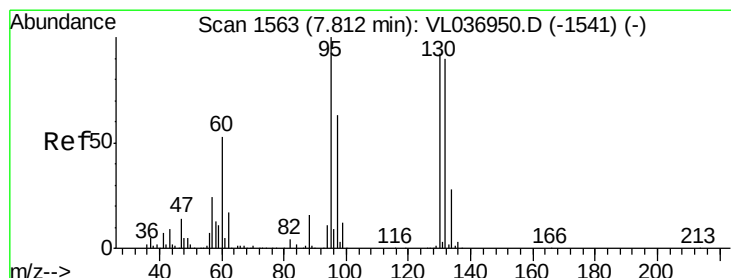
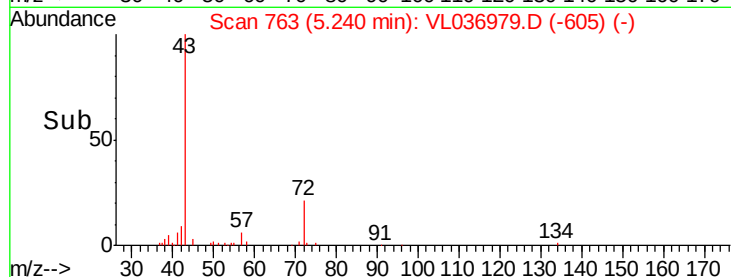
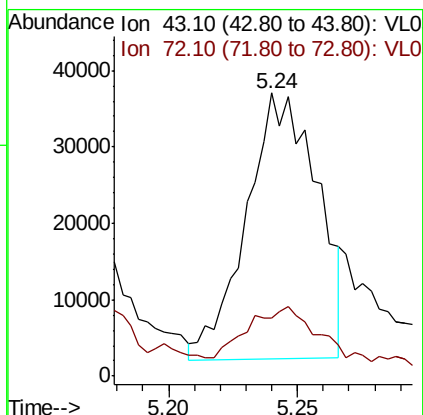
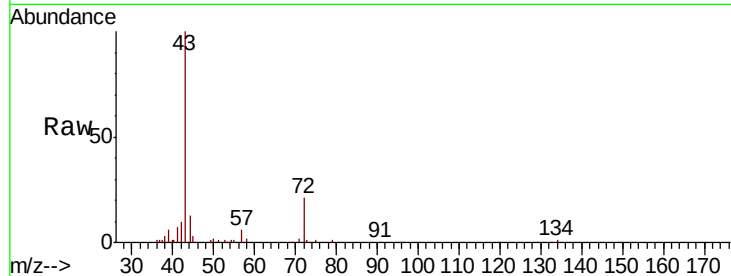




#34
2-Butanone
Concen: 0.481 ppbv
RT: 5.24 min Scan# 763
Delta R.T. 0.01 min
Lab File: VL036979.D
Acq: 18 May 2021 21:37

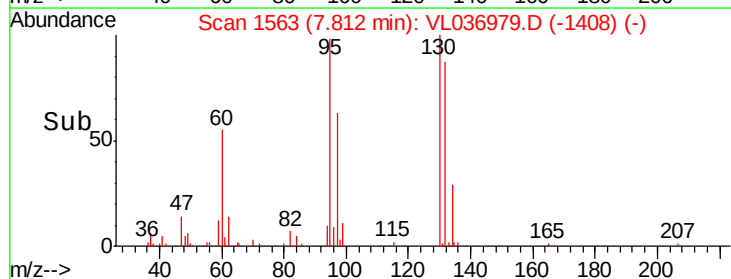
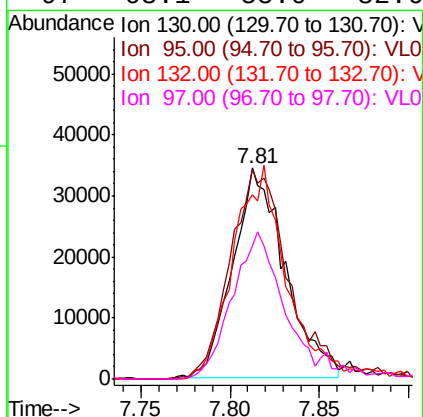
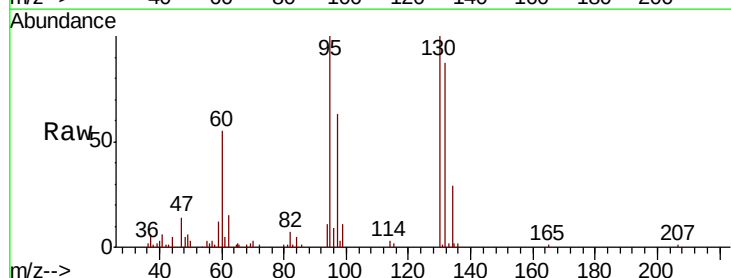
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

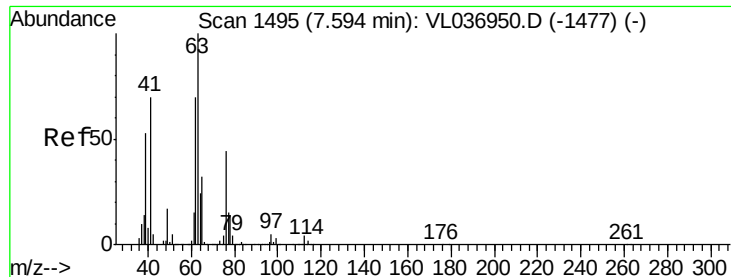
Tot Ion: 43 Resp: 67065
Ion Ratio Lower Upper
43 100
72 35.7 19.0 28.4#



#38
Trichloroethene
Concen: 0.493 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VL036979.D
Acq: 18 May 2021 21:37

Tgt Ion:130 Resp: 69649
Ion Ratio Lower Upper
130 100
95 99.2 86.9 130.3
132 87.3 78.4 117.6
97 63.1 55.0 82.6





#39

1,2-Dichloropropane

Concen: 7.115 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

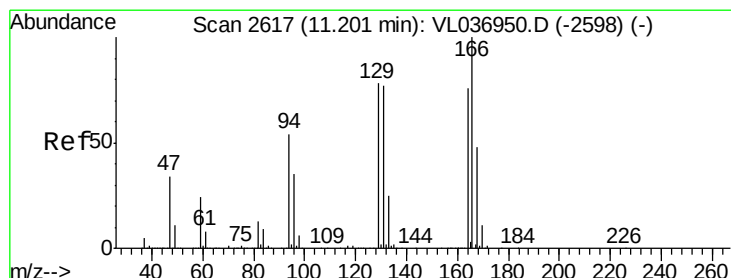
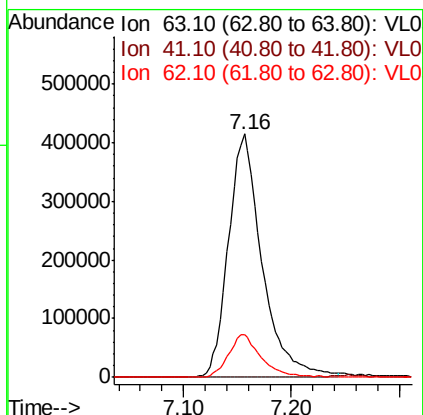
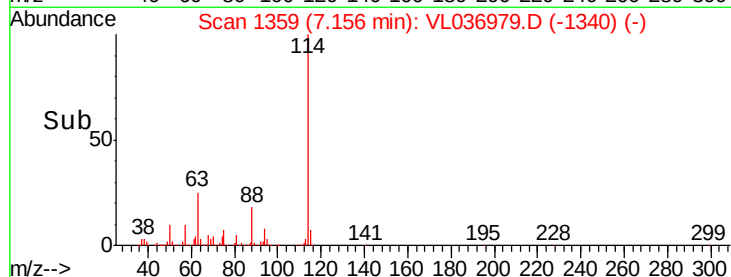
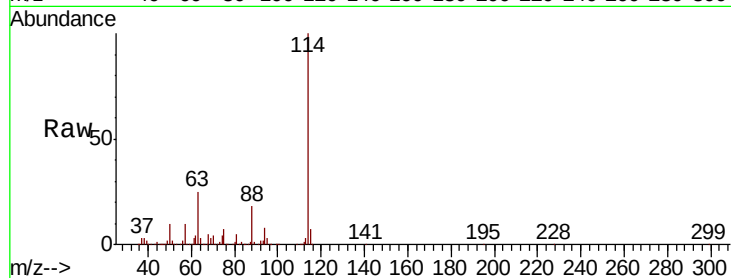
Tot Ion: 63 Resp: 904588

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

62 17.3 56.2 84.4#



#52

Tetrachloroethene

Concen: 15.299 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Tgt Ion:164 Resp: 2007844

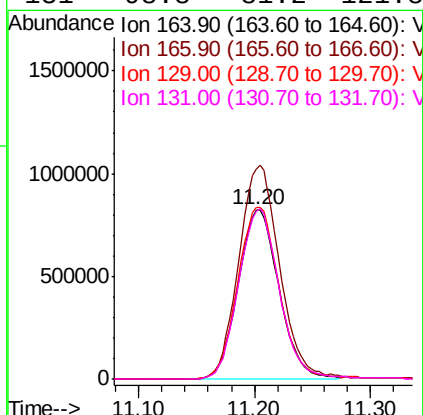
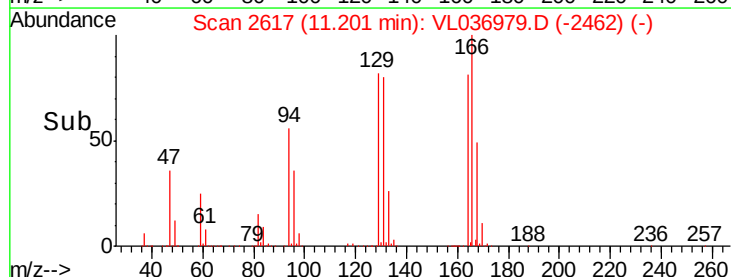
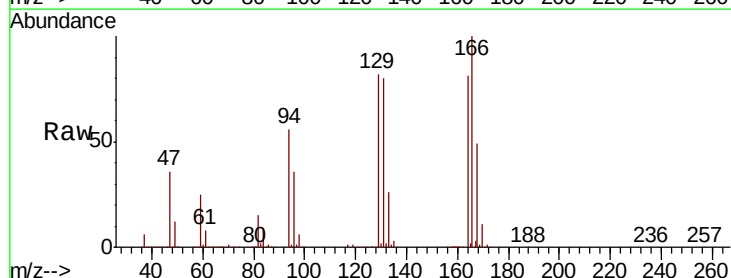
Ion Ratio Lower Upper

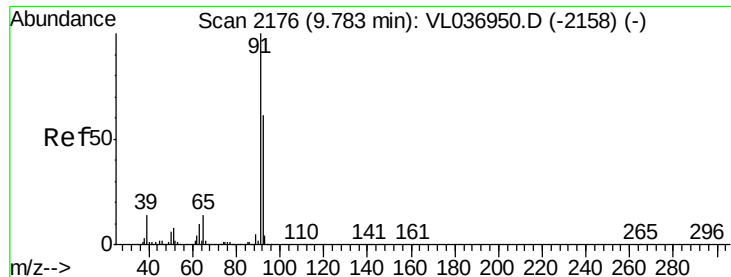
164 100

166 123.7 105.5 158.3

129 101.3 81.8 122.8

131 98.8 81.2 121.8





#53

Toluene

Concen: 0.077 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Instrument :

MSVOA_L

ClientSampleID :

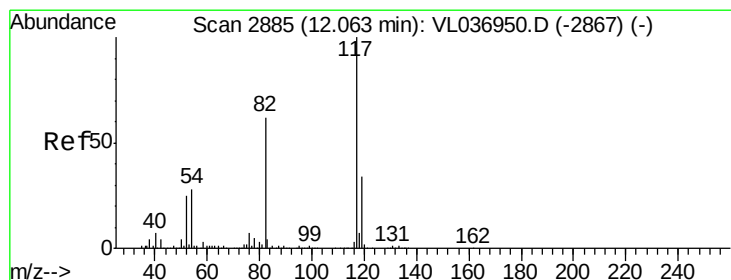
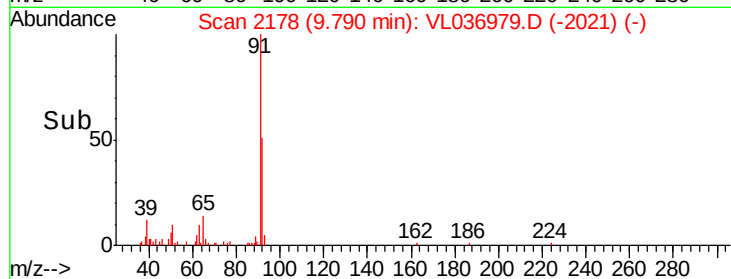
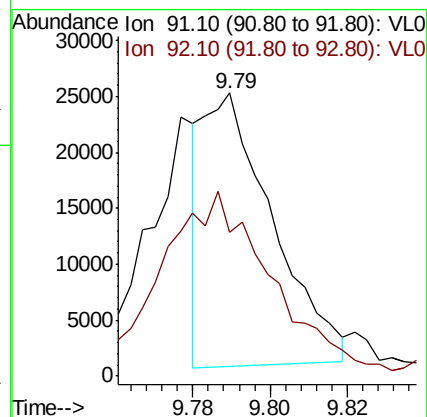
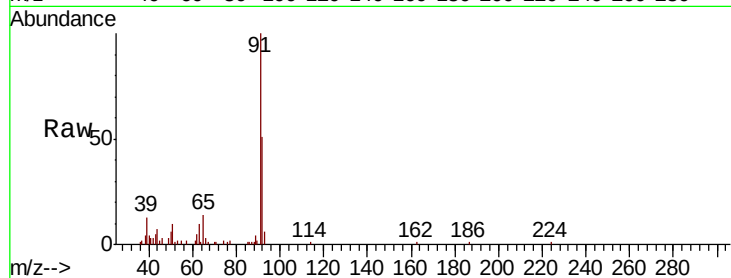
SV1DL

Tot Ion: 91 Resp: 30416

Ion Ratio Lower Upper

91 100

92 116.3 49.5 74.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

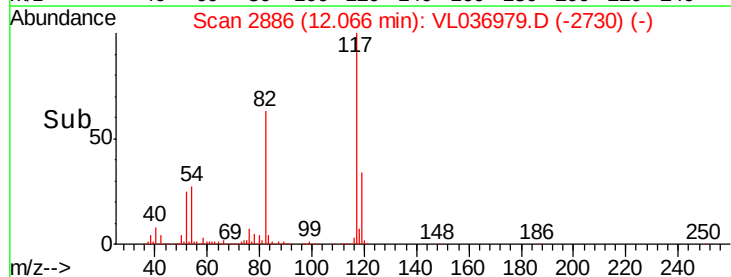
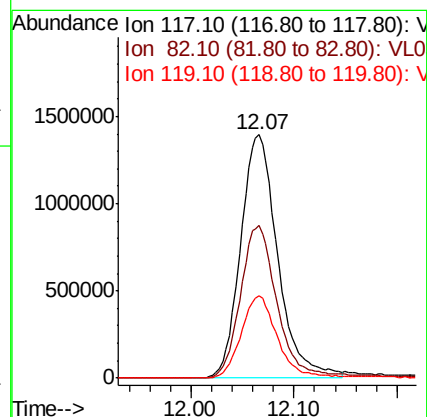
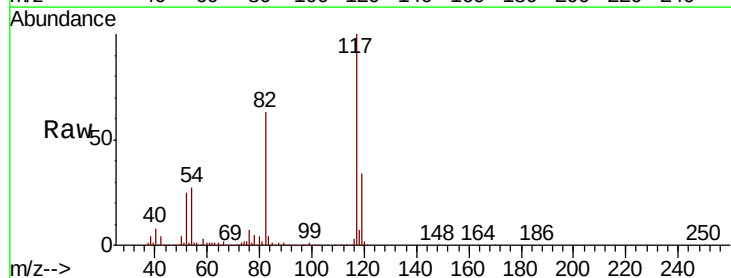
Tgt Ion: 117 Resp: 3493495

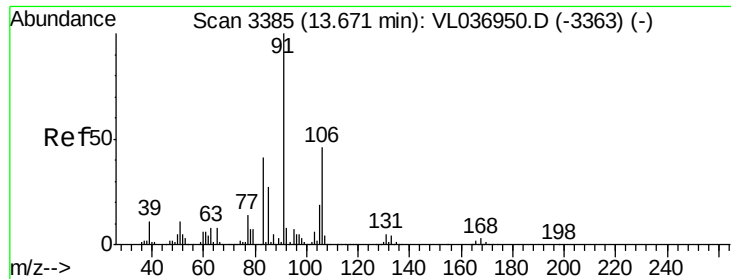
Ion Ratio Lower Upper

117 100

82 64.9 52.6 79.0

119 34.0 46.6 70.0#

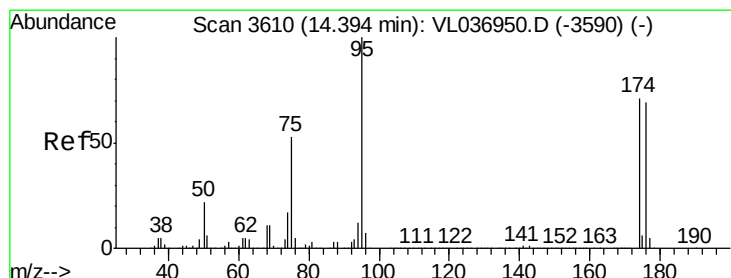
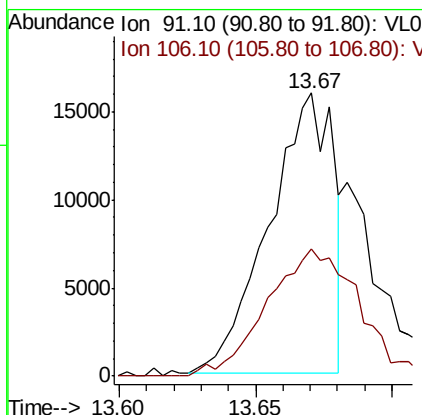
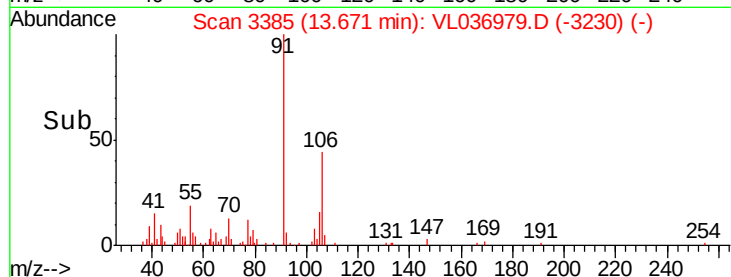
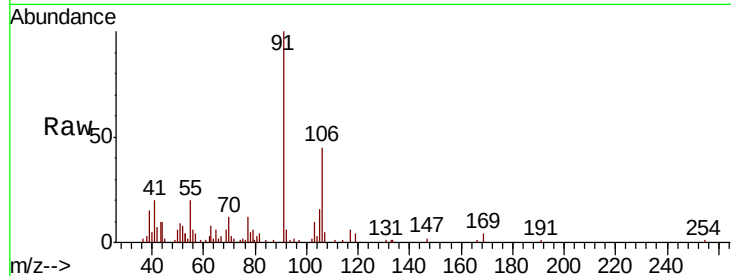




#60
o-Xylene
Concen: 0.067 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.00 min
Lab File: VL036979.D
Acq: 18 May 2021 21:37

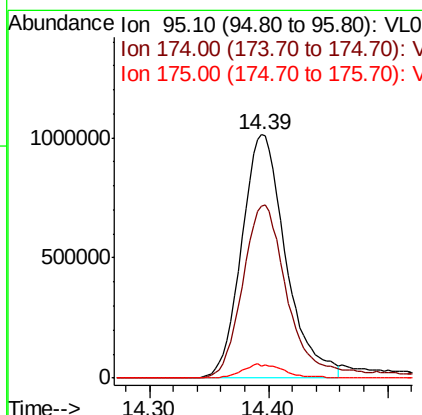
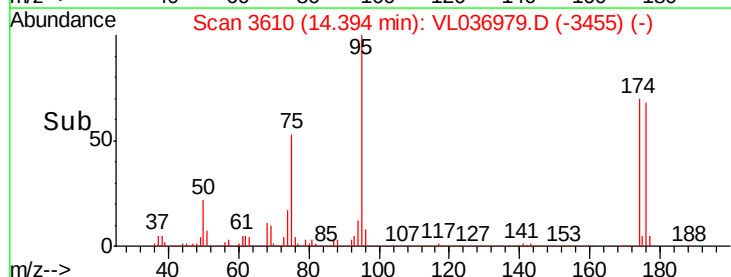
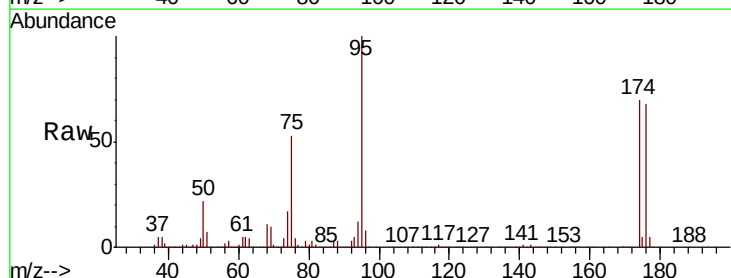
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

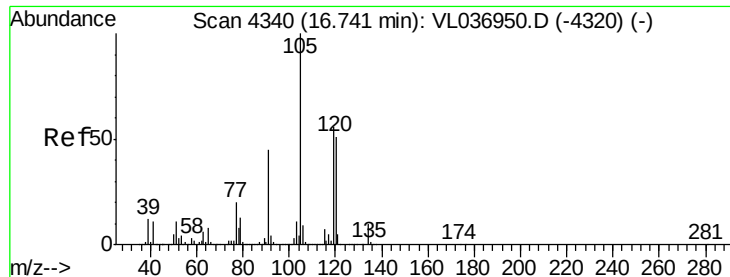
Tot Ion: 91 Resp: 25994
Ion Ratio Lower Upper
91 100
106 67.0 23.4 70.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.914 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.00 min
Lab File: VL036979.D
Acq: 18 May 2021 21:37

Tgt Ion: 95 Resp: 2601699
Ion Ratio Lower Upper
95 100
174 76.9 58.4 87.6
175 5.8 4.4 6.6





#74

1,2,4-Trimethylbenzene

Concen: 0.138 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL036979.D

Acq: 18 May 2021 21:37

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tot Ion:105 Resp: 61721

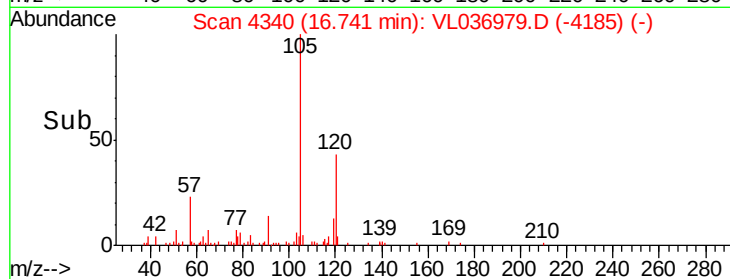
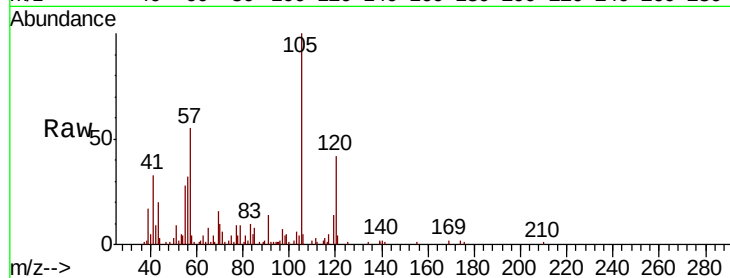
Ion Ratio Lower Upper

105 100

120 42.8 40.6 61.0

91 13.0 37.4 56.0#

77 5.7 16.2 24.4#



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

