

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036982.D
 Acq On : 18 May 2021 23:30
 Operator : SY/AP
 Sample : M2430-04DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: May 19 03:16:37 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	1166016	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3466174	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3227346	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2495155	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

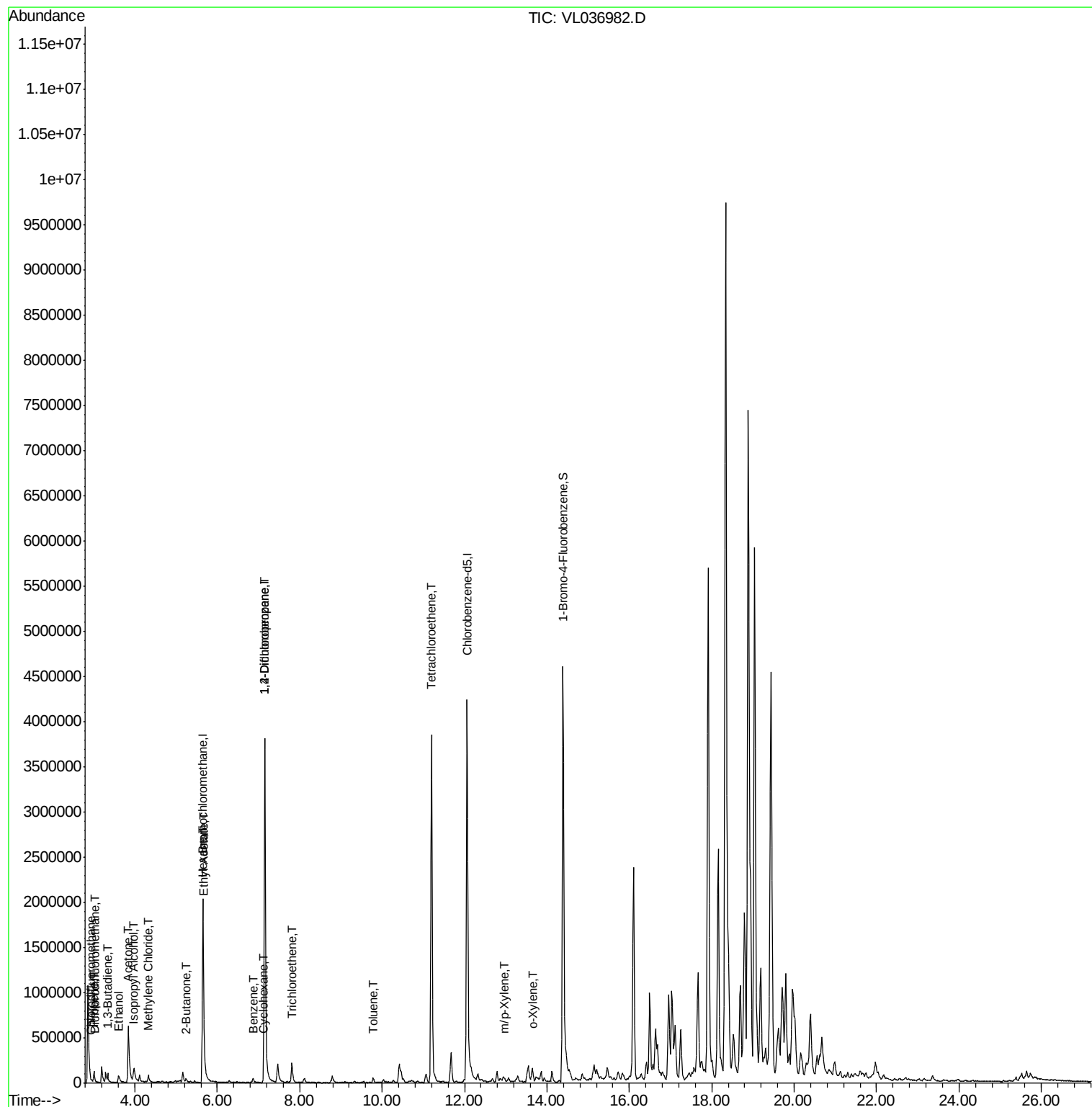
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	7121	0.036 ppbv #	84
3) Chlorodifluoromethane	2.94	51	26126	0.122 ppbv #	76
9) Propene	3.01	41	35589	0.465 ppbv	90
13) Ethanol	3.60	45	100687	9.866 ppbv	82
15) Acetone	3.84	43	988999	8.281 ppbv	98
16) 1,3-Butadiene	3.33	39	4803	0.065 ppbv #	10
19) Isopropyl Alcohol	3.97	45	231951	3.613 ppbv #	1
20) Methylene Chloride	4.33	84	28394	0.444 ppbv	97
25) Ethyl Acetate	5.67	43	46173	0.161 ppbv #	77
26) Hexane	5.66	57	63962	0.436 ppbv #	46
30) Cyclohexane	7.11	84	5117	0.041 ppbv #	1
34) 2-Butanone	5.24	43	43770	0.347 ppbv #	64
36) Benzene	6.87	78	41968	0.141 ppbv #	93
38) Trichloroethene	7.81	130	78559	0.615 ppbv	92
39) 1,2-Dichloropropane	7.15	63	834372	7.255 ppbv #	25
52) Tetrachloroethene	11.20	164	1090342	9.184 ppbv	97
53) Toluene	9.78	91	23529	0.066 ppbv #	31
59) m/p-Xylene	12.97	91	12707	0.034 ppbv #	30
60) o-Xylene	13.67	91	12060	0.034 ppbv #	31

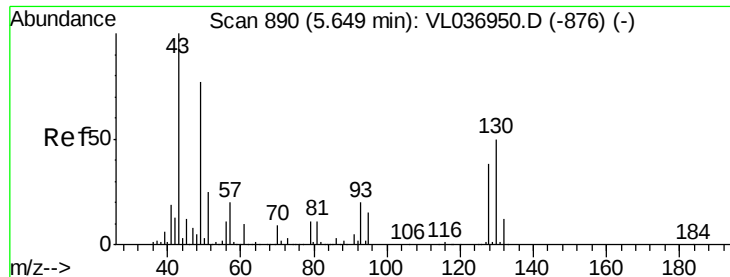
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

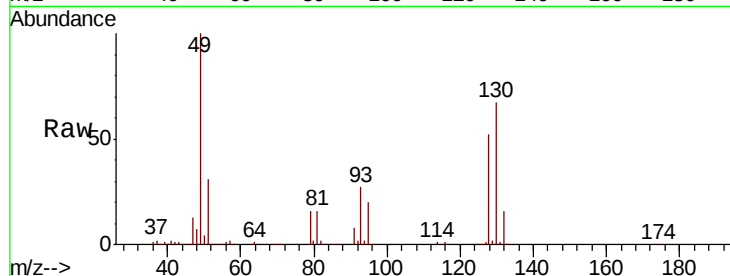
Tot Ion: 49 Resp: 1166016

Ion Ratio Lower Upper

49 100

128 55.6 26.9 80.7

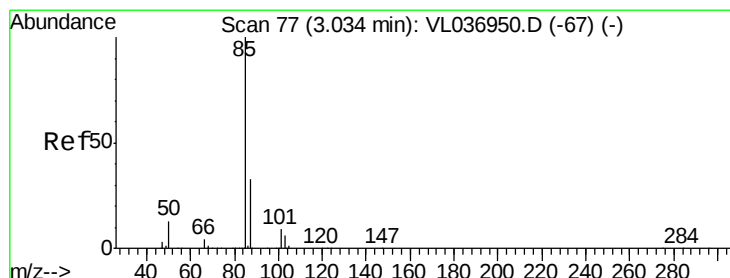
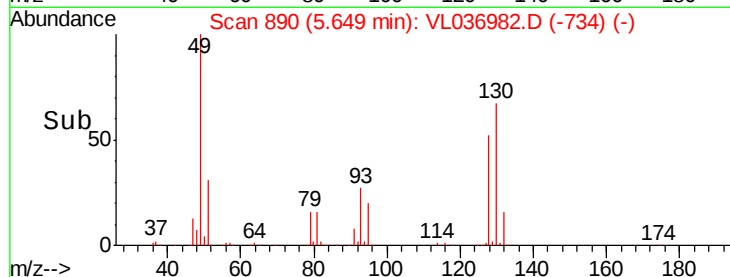
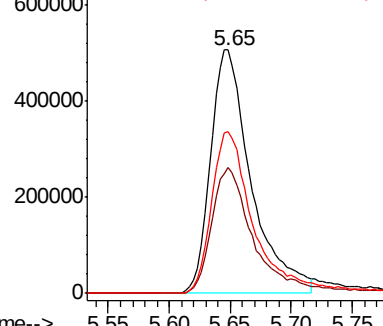
130 71.6 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.036 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL036982.D

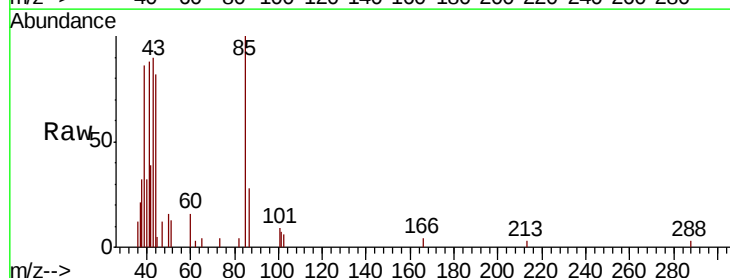
Acq: 18 May 2021 23:30

Tgt Ion: 85 Resp: 7121

Ion Ratio Lower Upper

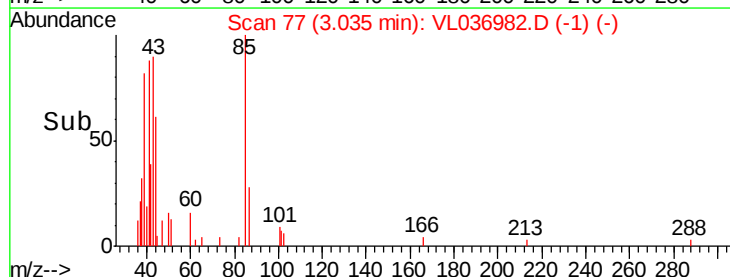
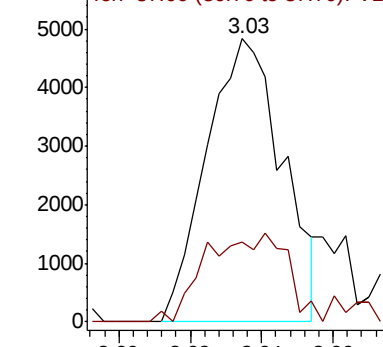
85 100

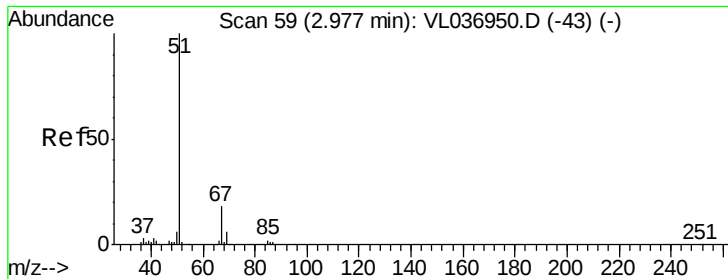
87 24.1 26.6 39.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.122 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.03 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA_L

ClientSampleId :

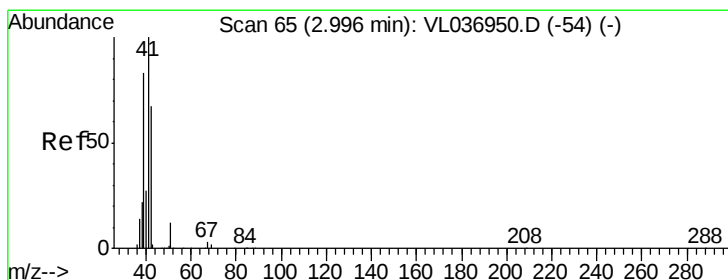
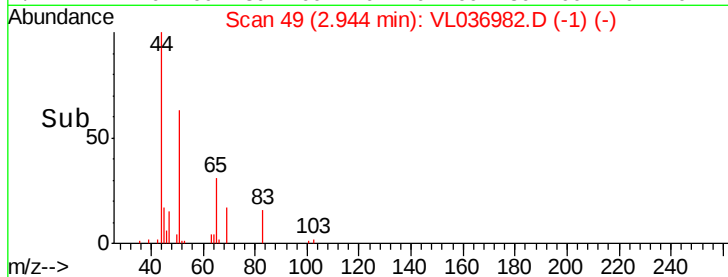
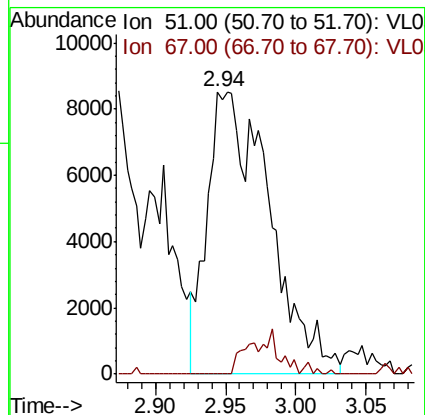
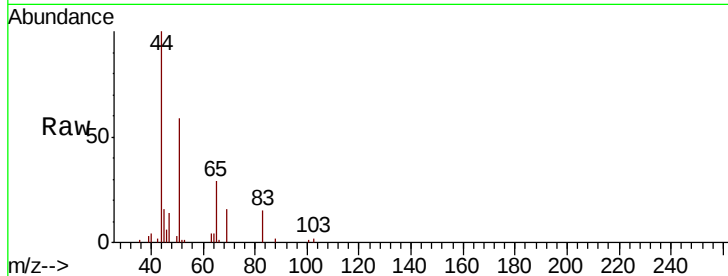
SV2DL

Tot Ion: 51 Resp: 26126

Ion Ratio Lower Upper

51 100

67 7.6 14.6 21.8#



#9

Propene

Concen: 0.465 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL036982.D

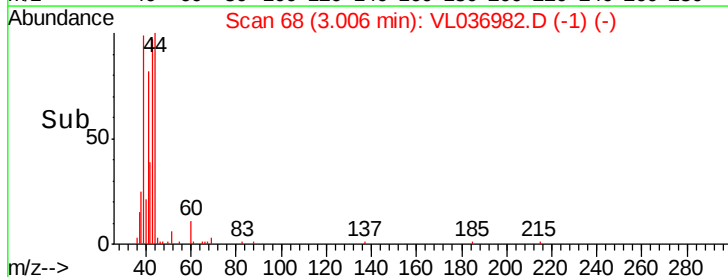
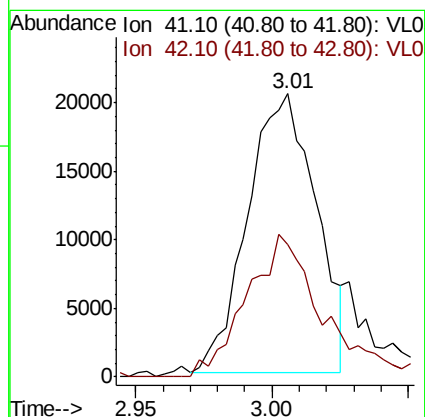
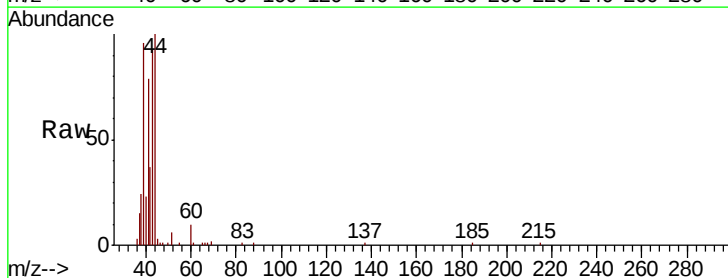
Acq: 18 May 2021 23:30

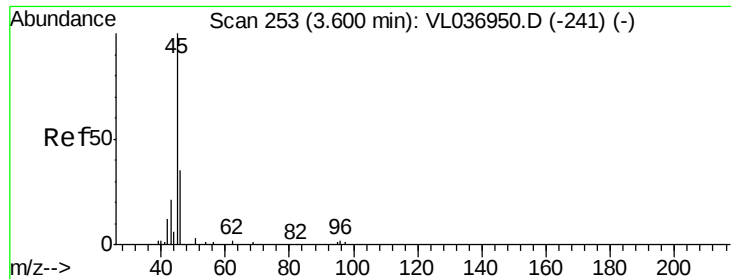
Tgt Ion: 41 Resp: 35589

Ion Ratio Lower Upper

41 100

42 59.0 53.9 80.9

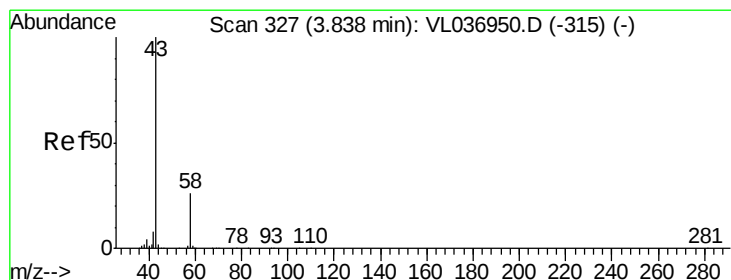
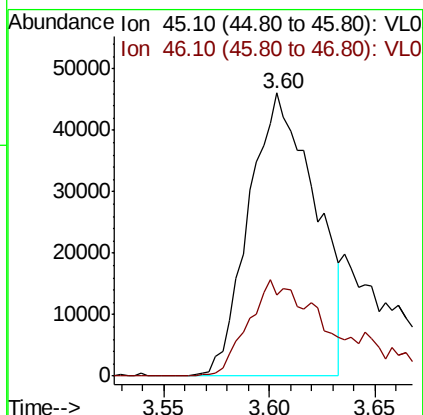
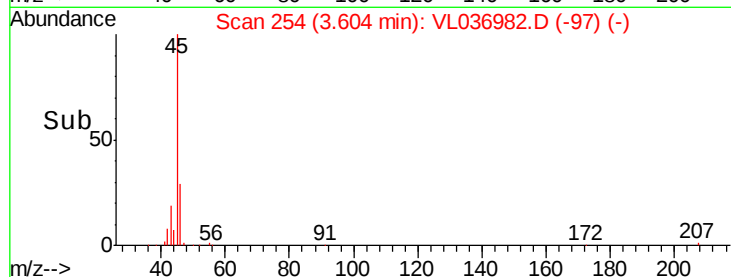
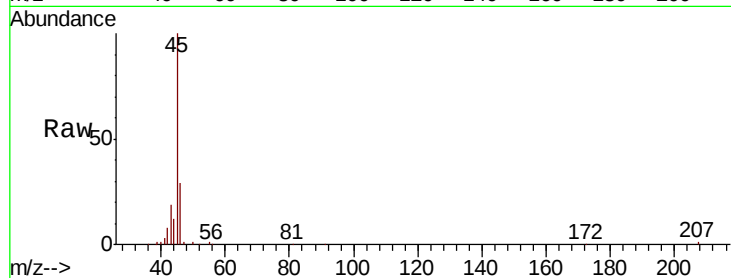




#13
Ethanol
Concen: 9.866 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL036982.D
Acq: 18 May 2021 23:30

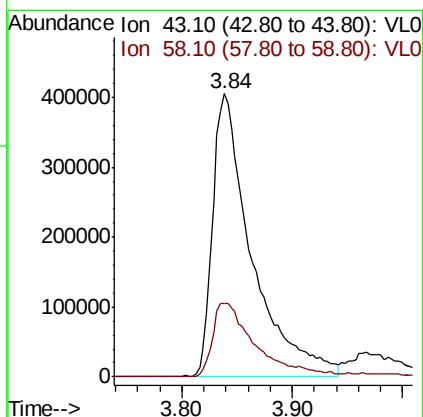
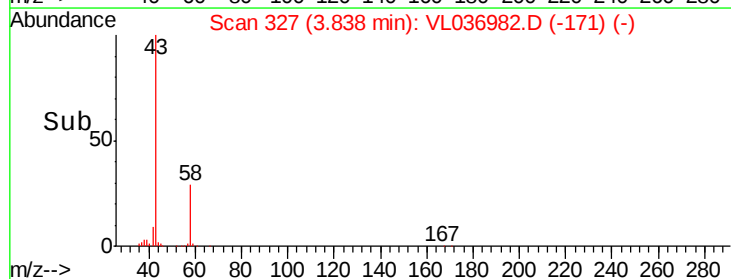
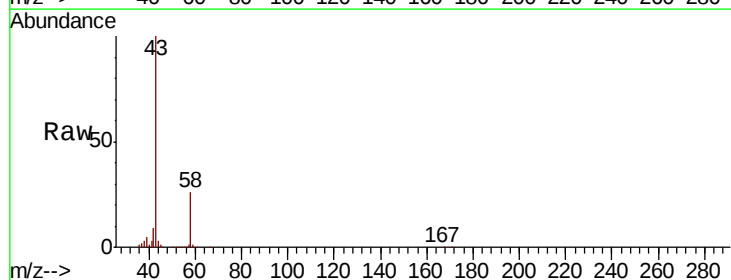
Instrument :
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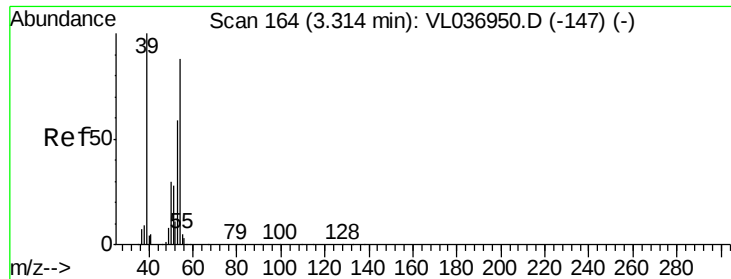
Tot Ion: 45 Resp: 100687
Ion Ratio Lower Upper
45 100
46 52.0 16.3 65.3



#15
Acetone
Concen: 8.281 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.00 min
Lab File: VL036982.D
Acq: 18 May 2021 23:30

Tgt Ion: 43 Resp: 988999
Ion Ratio Lower Upper
43 100
58 29.2 24.0 36.0

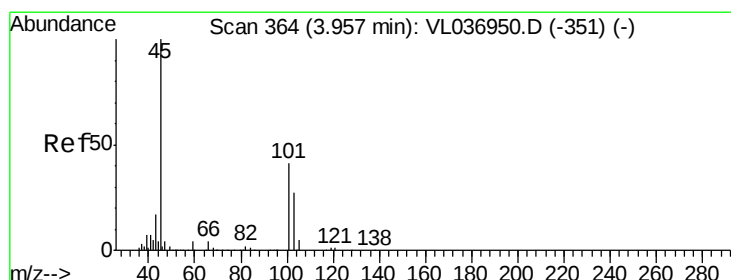
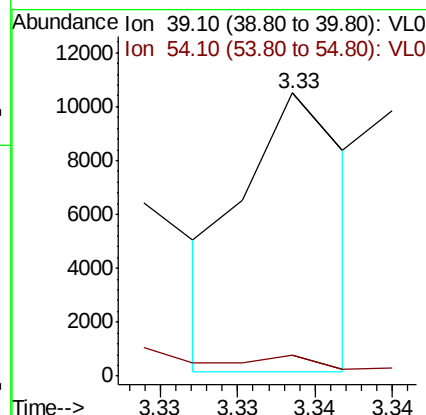
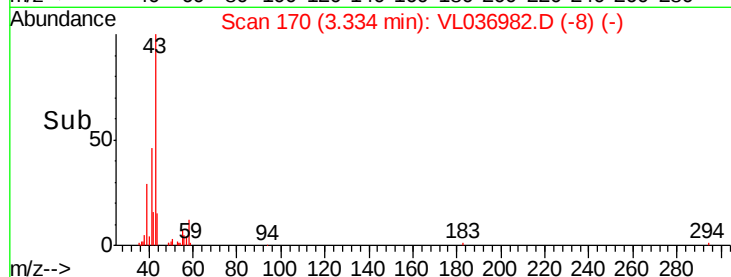
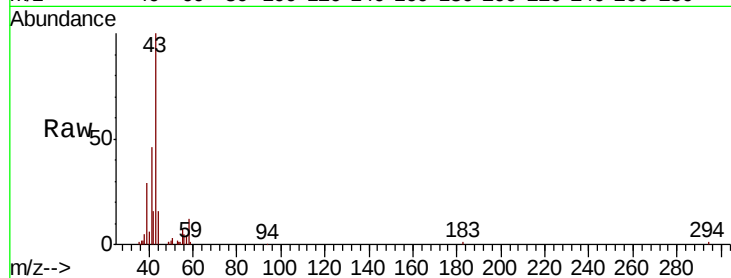




#16
 1,3-Butadiene
 Concen: 0.065 ppbv
 RT: 3.33 min Scan# 170
 Delta R.T. 0.02 min
 Lab File: VL036982.D
 Acq: 18 May 2021 23:30

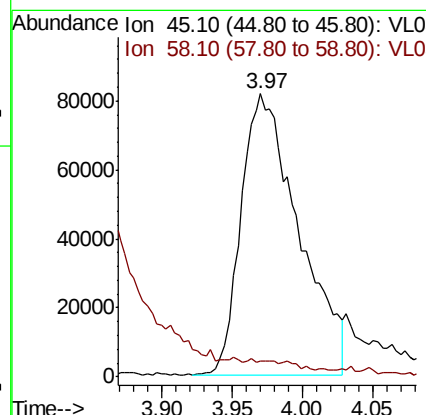
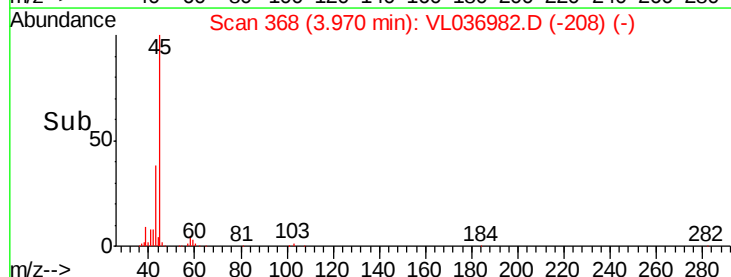
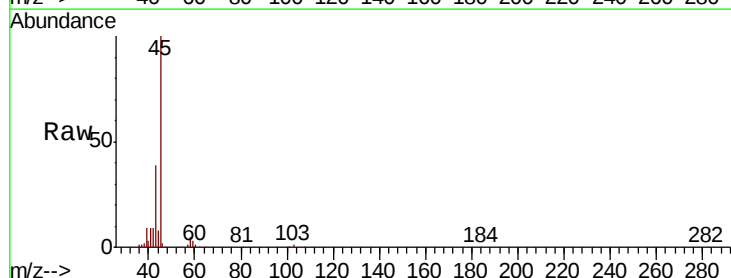
Instrument :
 MSVOA_L
 ClientSampleID :
 SV2DL

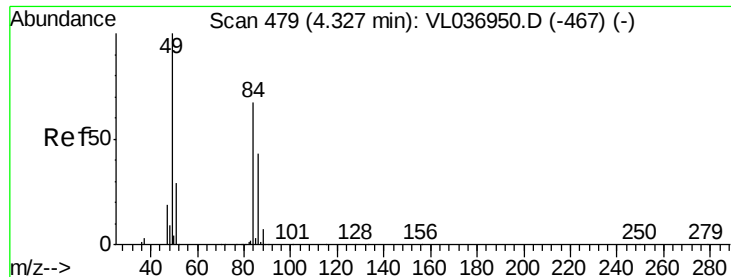
Tot Ion: 39 Resp: 4803
 Ion Ratio Lower Upper
 39 100
 54 0.0 63.2 94.8#



#19
 Isopropyl Alcohol
 Concen: 3.613 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL036982.D
 Acq: 18 May 2021 23:30

Tgt Ion: 45 Resp: 231951
 Ion Ratio Lower Upper
 45 100
 58 125.9 37.2 55.8#

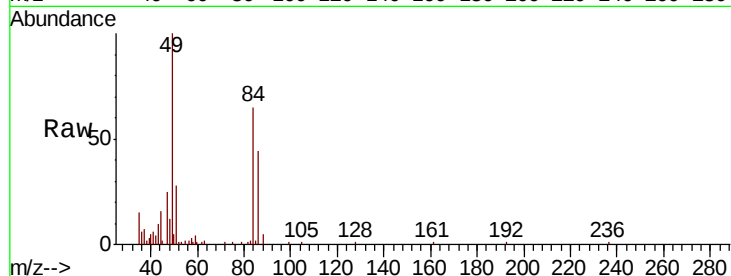




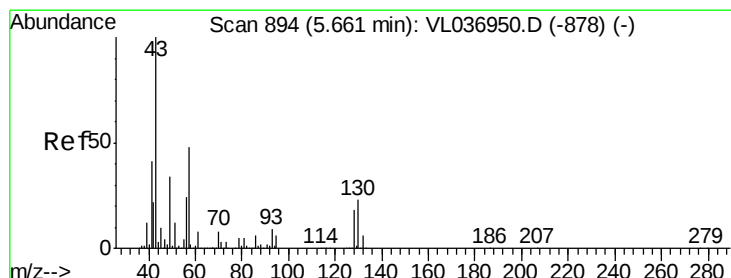
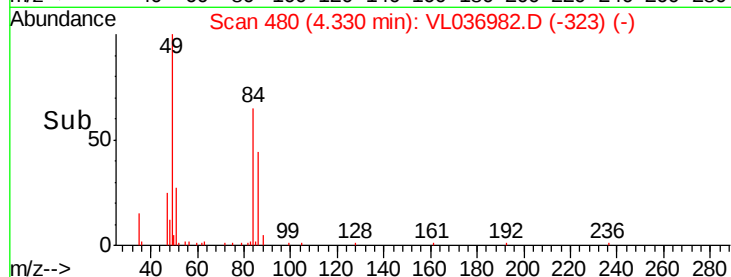
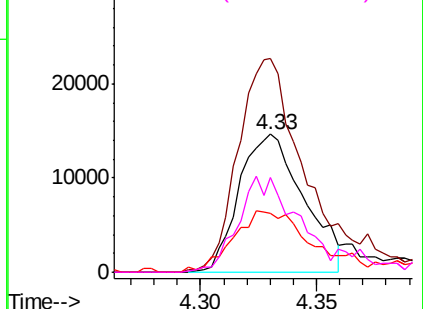
#20
Methylene Chloride
Concen: 0.444 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL036982.D
Acq: 18 May 2021 23:30

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tot Ion:	84	Resp:	28394
Ion	Ratio	Lower	Upper
84	100		
49	152.9	119.8	179.6
51	41.0	35.1	52.7
86	67.2	50.9	76.3

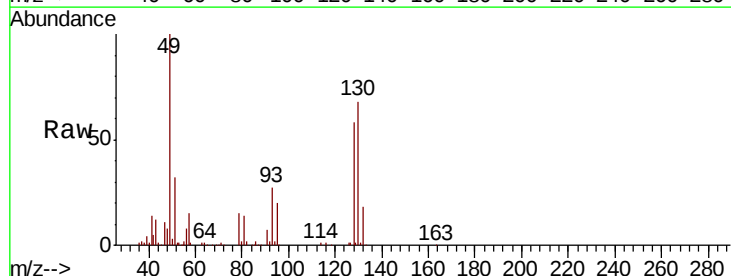


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

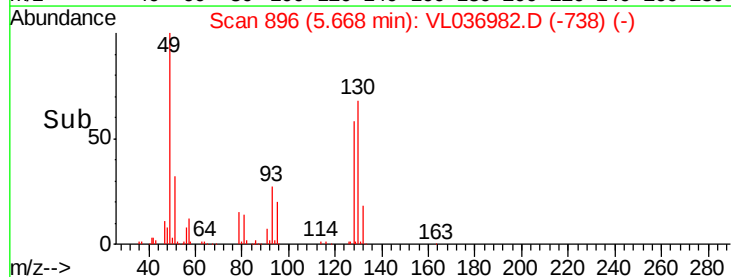
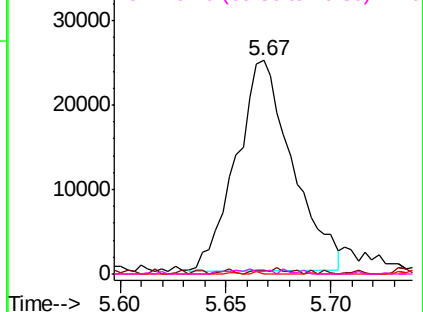


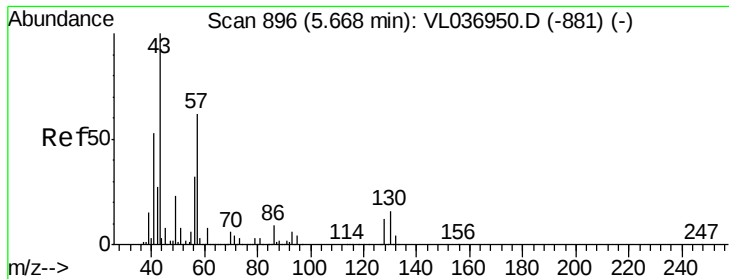
#25
Ethyl Acetate
Concen: 0.161 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL036982.D
Acq: 18 May 2021 23:30

Tgt Ion:	43	Resp:	46173
Ion	Ratio	Lower	Upper
43	100		
45	1.4	7.8	11.8#
61	0.3	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

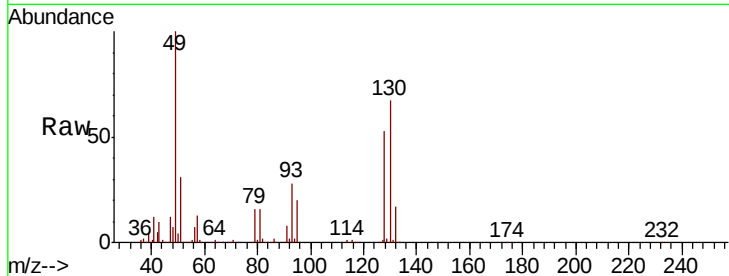




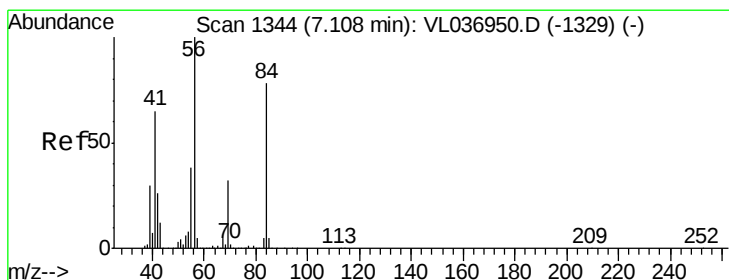
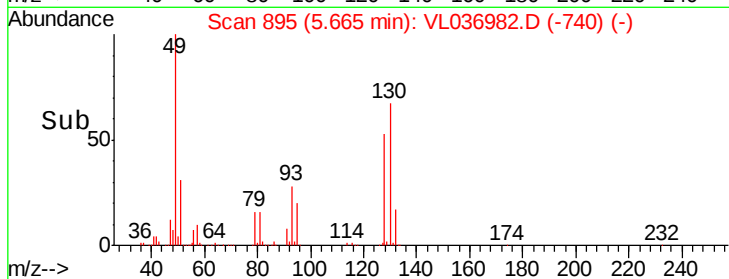
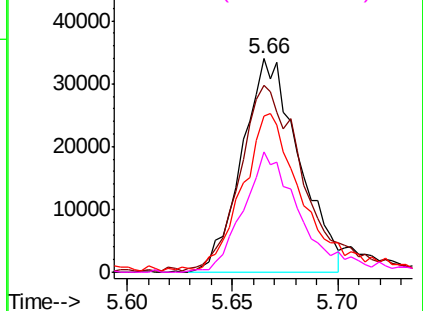
#26
Hexane
Concen: 0.436 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL036982.D
Acq: 18 May 2021 23:30

Instrument :
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Tot Ion: 57 Resp: 63962
Ion Ratio Lower Upper
57 100
41 102.4 70.5 105.7
43 79.9 165.8 248.8#
56 56.9 42.2 63.4

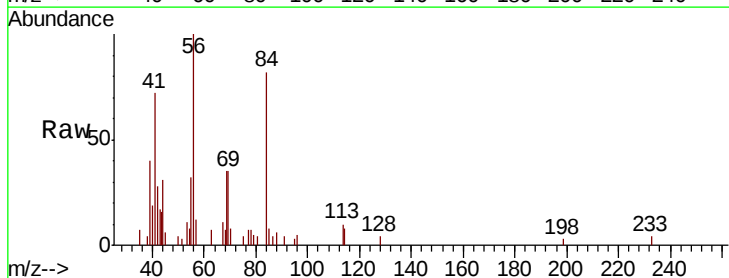


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

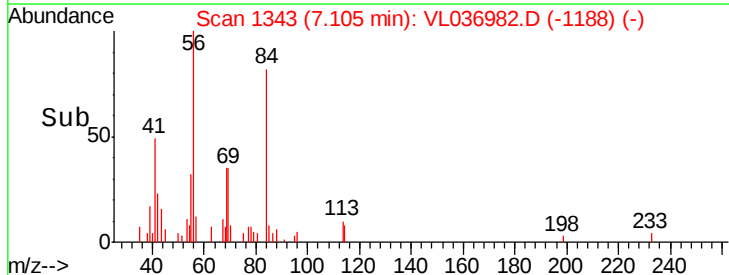
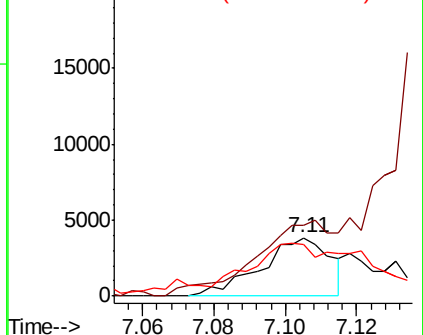


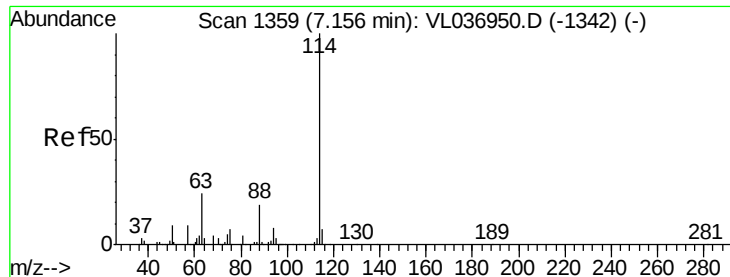
#30
Cyclohexane
Concen: 0.041 ppbv
RT: 7.11 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL036982.D
Acq: 18 May 2021 23:30

Tgt Ion: 84 Resp: 5117
Ion Ratio Lower Upper
84 100
56 0.0 107.9 161.9#
41 185.8 65.5 98.3#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

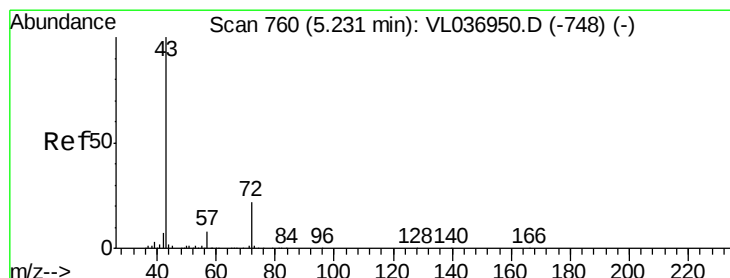
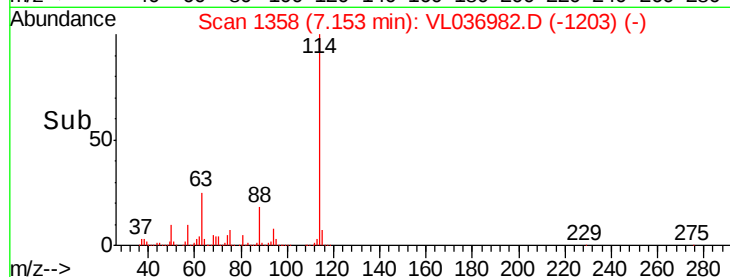
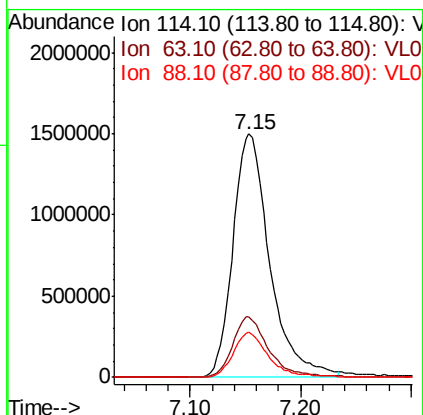
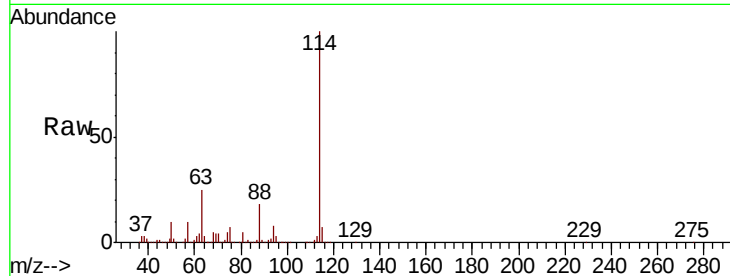




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL036982.D
 Acq: 18 May 2021 23:30

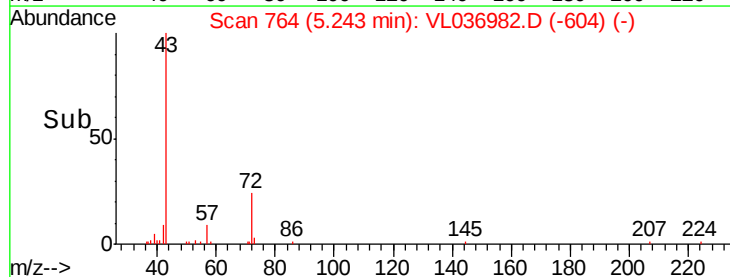
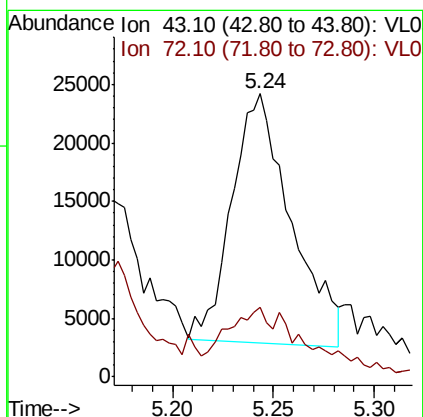
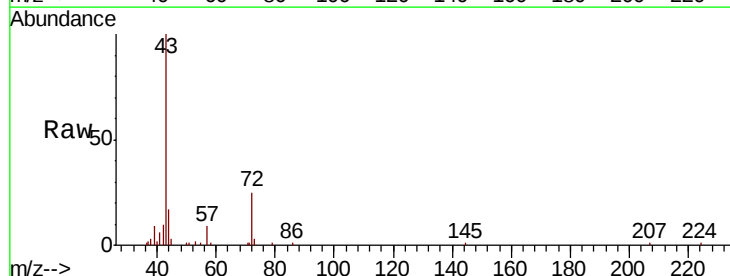
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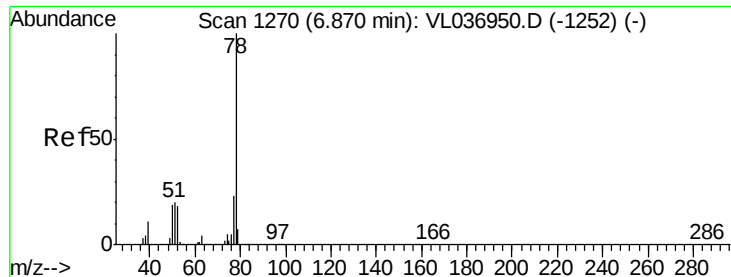
Tot Ion:114 Resp: 3466174
 Ion Ratio Lower Upper
 114 100
 63 24.7 19.6 29.4
 88 18.0 14.6 21.8



#34
 2-Butanone
 Concen: 0.347 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL036982.D
 Acq: 18 May 2021 23:30

Tgt Ion: 43 Resp: 43770
 Ion Ratio Lower Upper
 43 100
 72 41.3 19.0 28.4#





#36

Benzene

Concen: 0.141 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA_L

ClientSampleID :

SV2DL

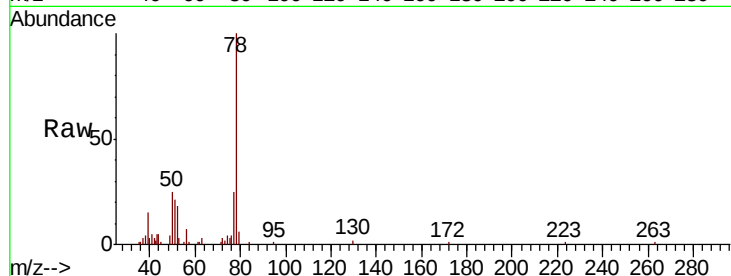
Tot Ion: 78 Resp: 41968

Ion Ratio Lower Upper

78 100

77 24.9 18.6 28.0

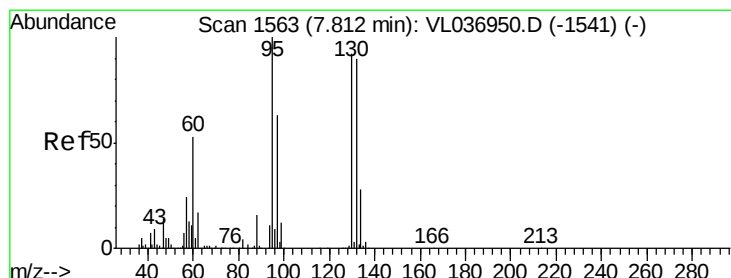
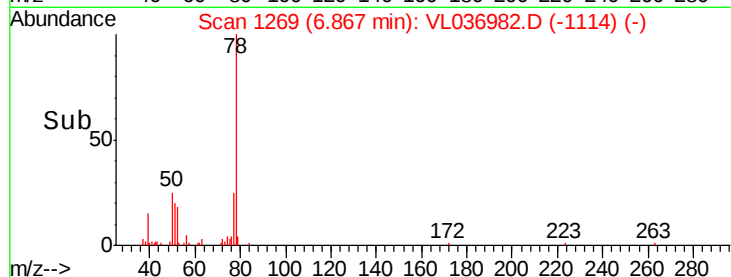
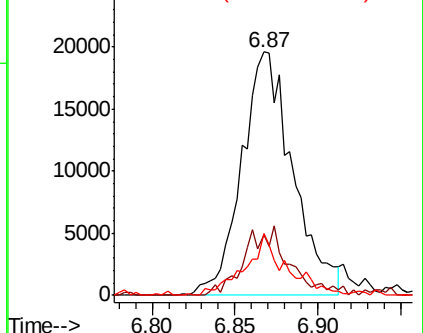
50 23.5 15.0 22.4#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.615 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Tgt Ion: 130 Resp: 78559

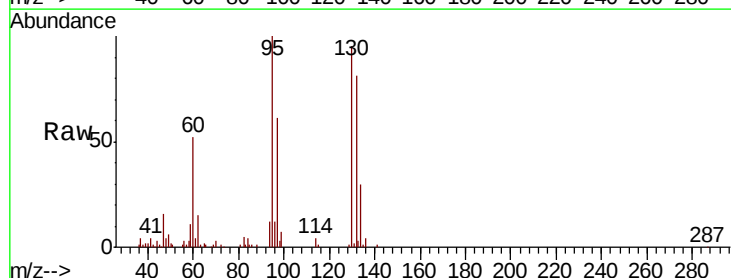
Ion Ratio Lower Upper

130 100

95 105.0 86.9 130.3

132 84.4 78.4 117.6

97 64.5 55.0 82.6

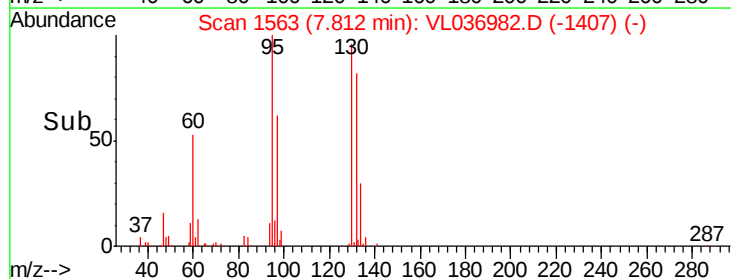
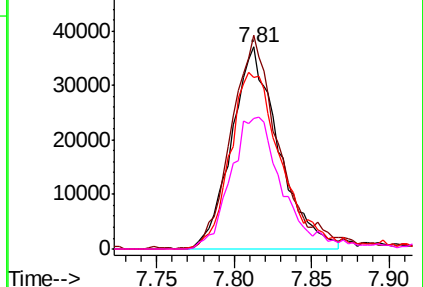


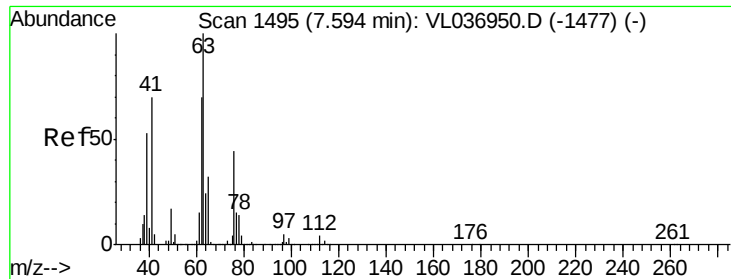
Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.255 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.44 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

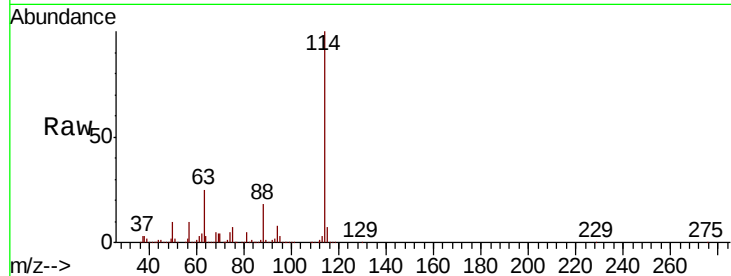
Tot Ion: 63 Resp: 834372

Ion Ratio Lower Upper

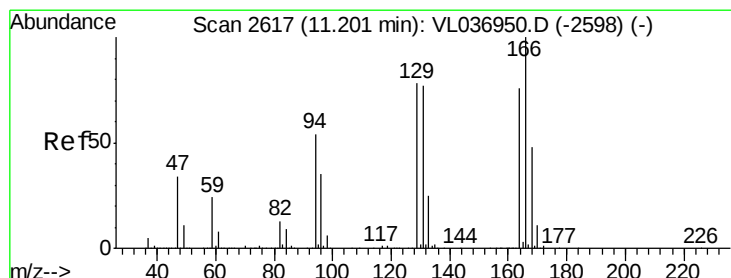
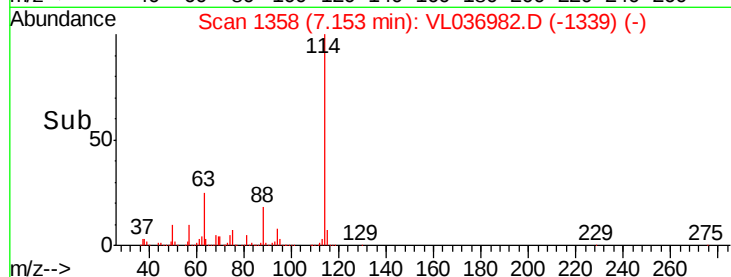
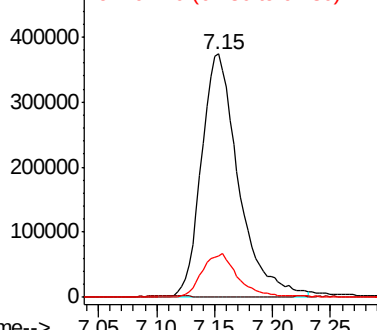
63 100

41 0.0 55.7 83.5#

62 16.8 56.2 84.4#



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



#52

Tetrachloroethene

Concen: 9.184 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. 0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Tgt Ion:164 Resp: 1090342

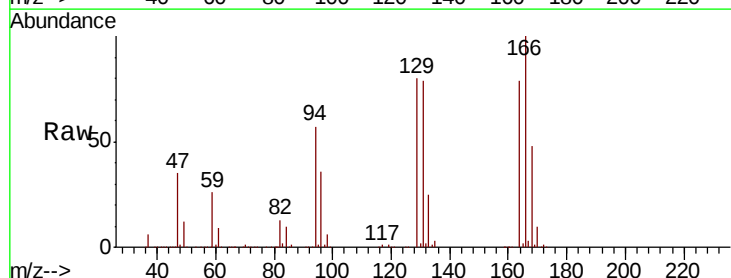
Ion Ratio Lower Upper

164 100

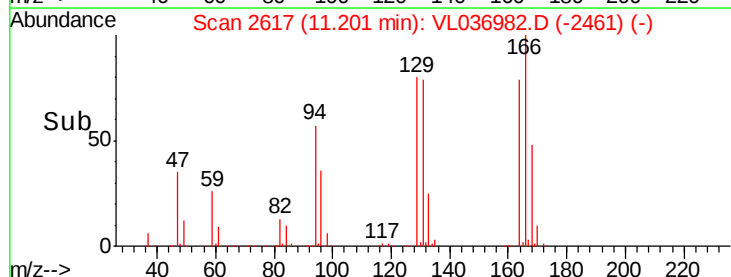
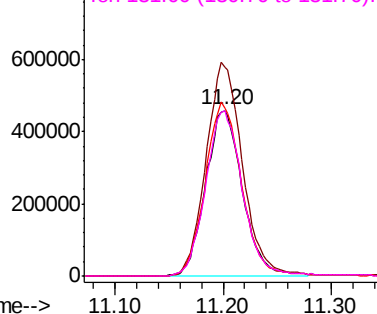
166 126.1 105.5 158.3

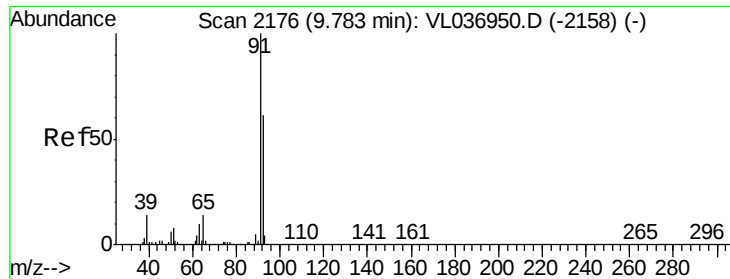
129 101.1 81.8 122.8

131 100.1 81.2 121.8



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.066 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA_L

ClientSampled :

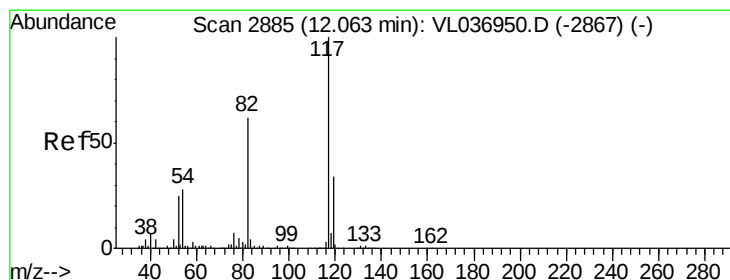
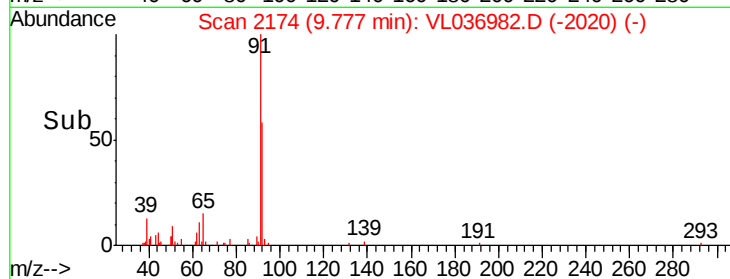
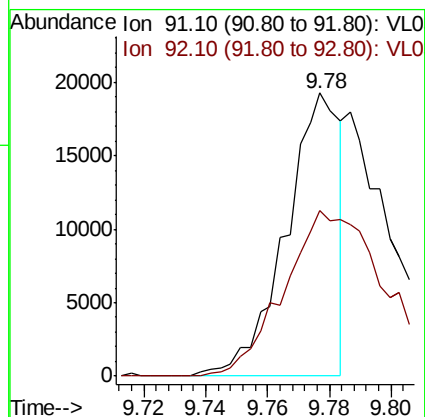
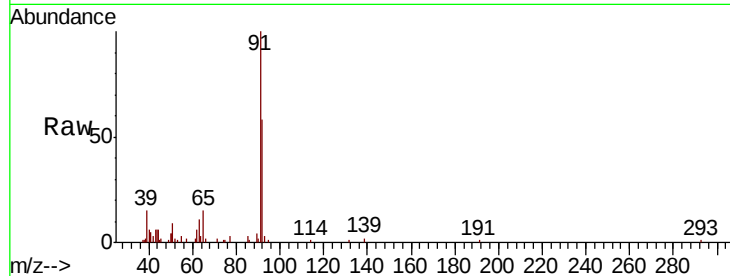
SV2DL

Tot Ion: 91 Resp: 23529

Ion Ratio Lower Upper

91 100

92 115.2 49.5 74.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

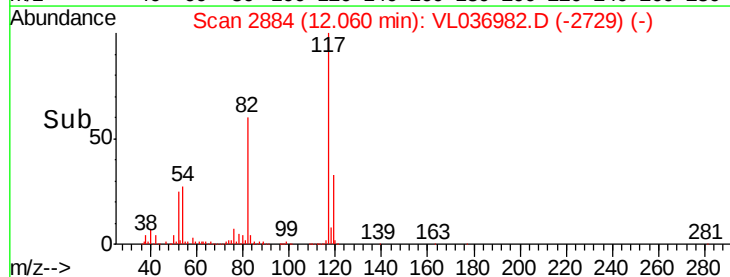
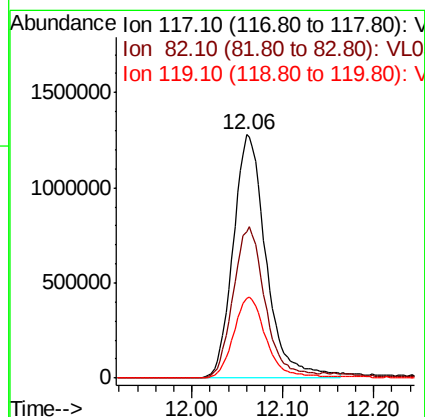
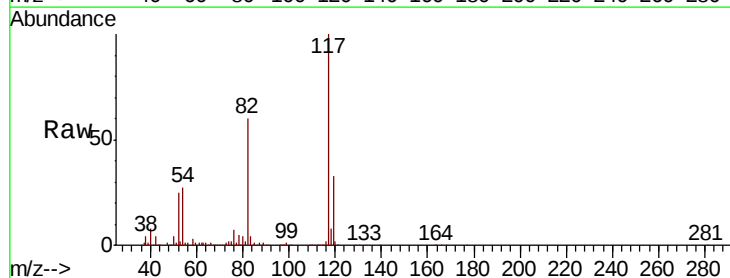
Tgt Ion: 117 Resp: 3227346

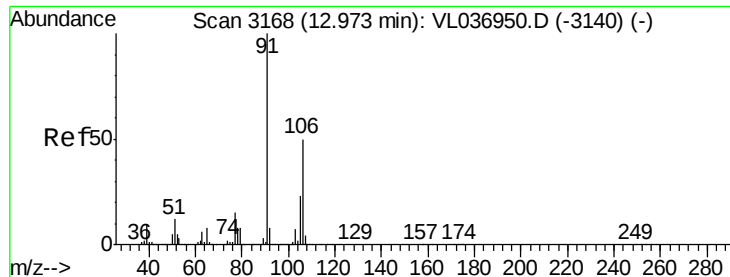
Ion Ratio Lower Upper

117 100

82 63.6 52.6 79.0

119 33.8 46.6 70.0#





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.01 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA_L

ClientSampleId :

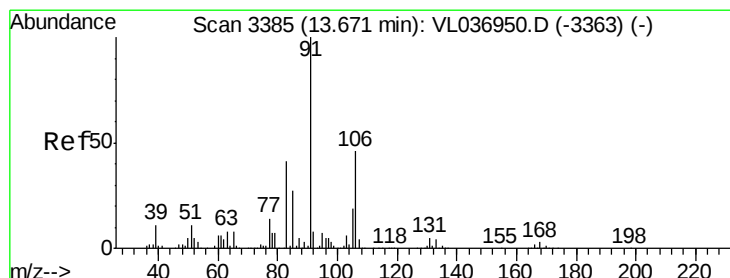
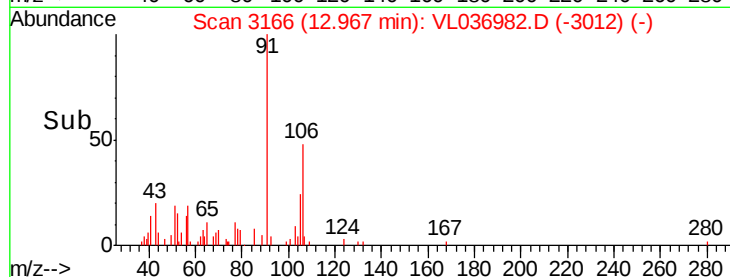
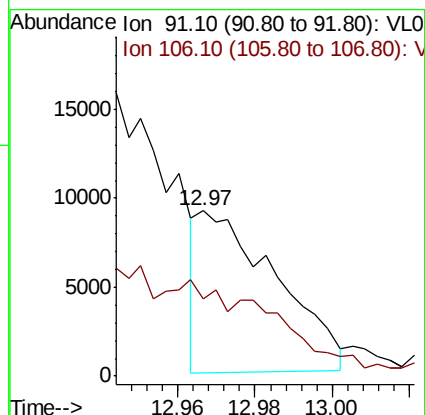
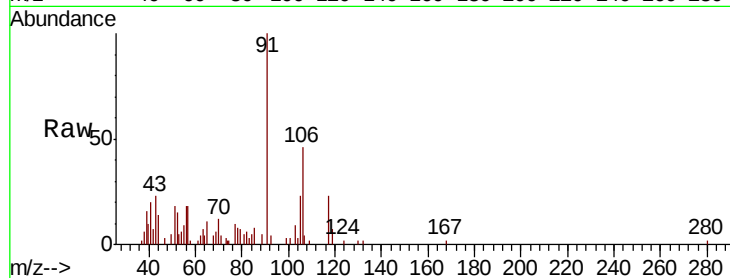
SV2DL

Tot Ion: 91 Resp: 12707

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 0.034 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VL036982.D

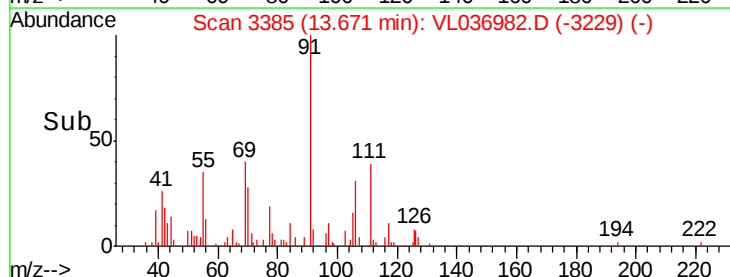
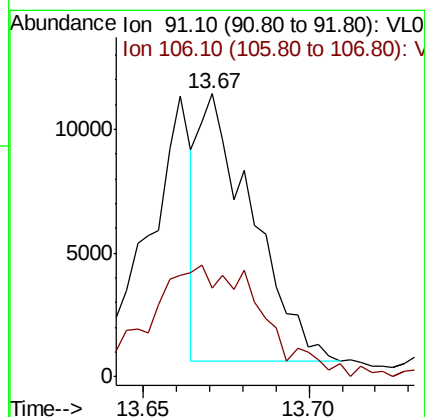
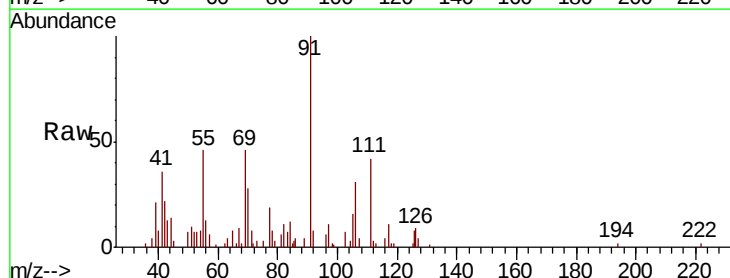
Acq: 18 May 2021 23:30

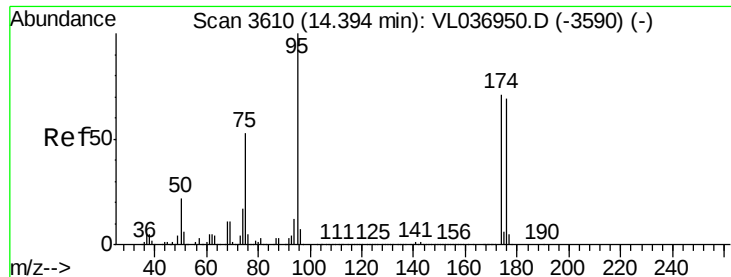
Tgt Ion: 91 Resp: 12060

Ion Ratio Lower Upper

91 100

106 92.6 23.4 70.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.292 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tot Ion: 95 Resp: 2495155

Ion Ratio Lower Upper

95 100

174 77.8 58.4 87.6

175 5.7 4.4 6.6

