

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110121\
 Data File : VL037956.D
 Acq On : 2 Nov 2021 2:51
 Operator : SY/AP
 Sample : M4425-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Nov 02 06:08:48 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1387374	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3899180	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3289663	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2393116	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

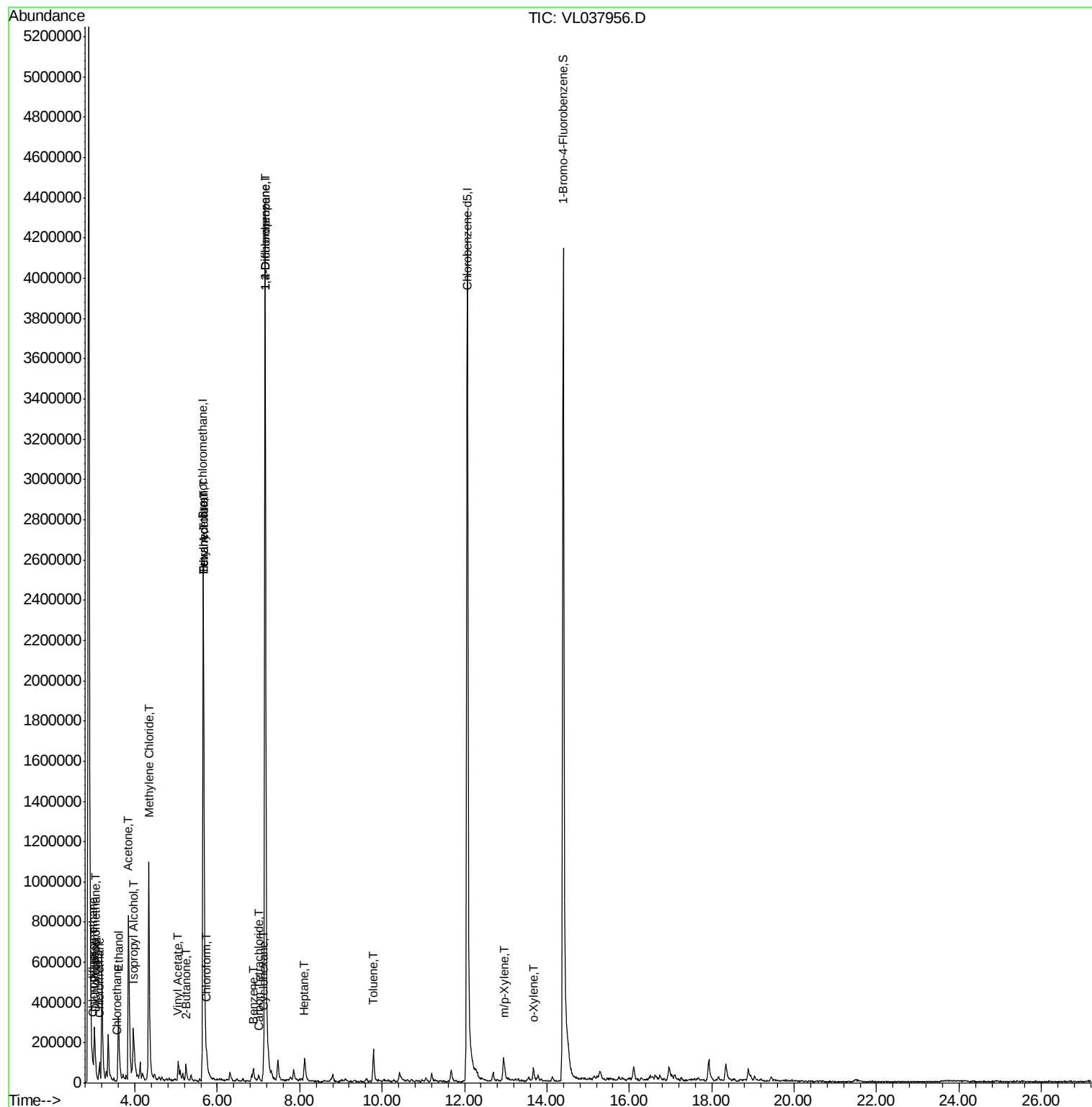
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	55218	0.282	ppbv 93
3) Chlorodifluoromethane	2.99	51	98910	0.383	ppbv # 86
4) Chloromethane	3.14	50	89379	0.911	ppbv 96
7) Chloroethane	3.56	64	1210	0.035	ppbv # 68
9) Propene	3.01	41	32335	0.349	ppbv # 20
10) Heptane	8.10	43	12773	0.059	ppbv # 28
13) Ethanol	3.60	45	457351	48.957	ppbv 88
15) Acetone	3.84	43	1062434	9.267	ppbv 99
19) Isopropyl Alcohol	3.96	45	321581	4.386	ppbv # 1
20) Methylene Chloride	4.34	84	441887	7.021	ppbv 95
23) Vinyl Acetate	5.05	43	95808	0.555	ppbv # 76
25) Ethyl Acetate	5.67	43	230036	0.676	ppbv # 84
26) Hexane	5.67	57	266768	1.654	ppbv # 51
29) Chloroform	5.74	83	22595	0.094	ppbv 98
30) Cyclohexane	7.12	84	8623	0.063	ppbv # 1
34) 2-Butanone	5.23	43	40504	0.280	ppbv # 53
35) Carbon Tetrachloride	7.01	117	7649	0.032	ppbv # 68
36) Benzene	6.88	78	17328	0.055	ppbv # 91
39) 1,2-Dichloropropane	7.16	63	921560	7.713	ppbv # 27
41) Tetrahydrofuran	5.67	42	106416	1.505	ppbv # 51
53) Toluene	9.79	91	111823	0.328	ppbv 98
59) m/p-Xylene	12.97	91	28304	0.079	ppbv # 30
60) o-Xylene	13.68	91	17421	0.052	ppbv # 30

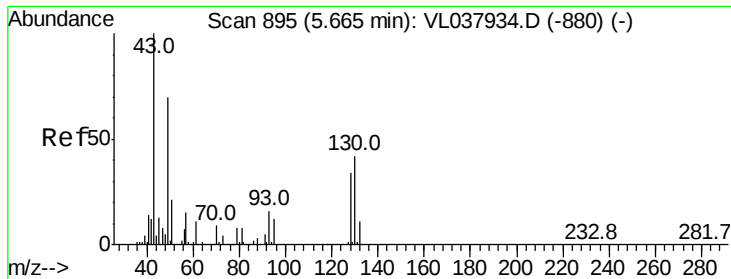
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 02 05:54:07 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1

Acq: 2 Nov 2021 2:51

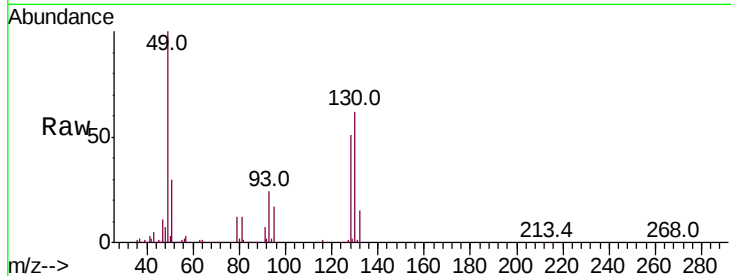
Tot Ion: 49 Resp: 1387374

Ion Ratio Lower Upper

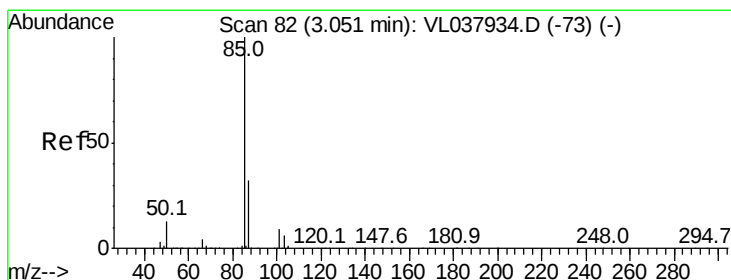
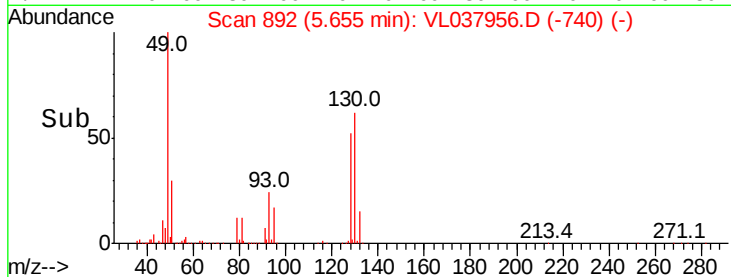
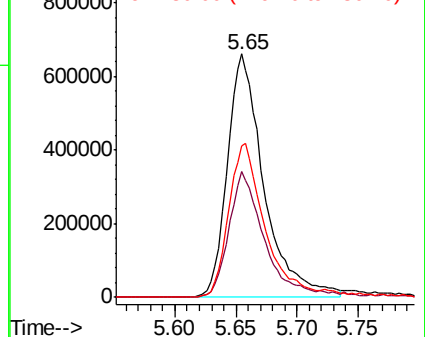
49 100

128 52.0 27.0 81.0

130 65.3 33.4 100.2



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: 0.282 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL037956.D

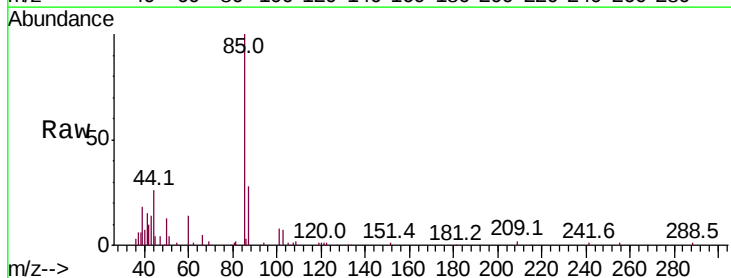
Acq: 2 Nov 2021 2:51

Tgt Ion: 85 Resp: 55218

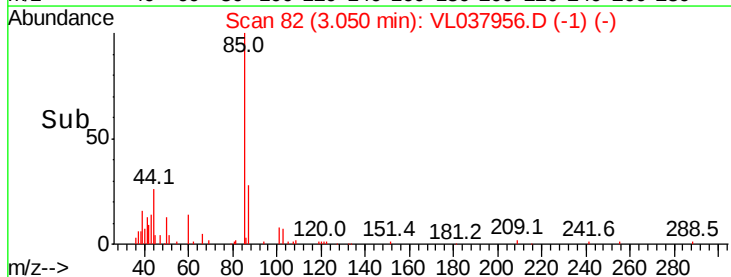
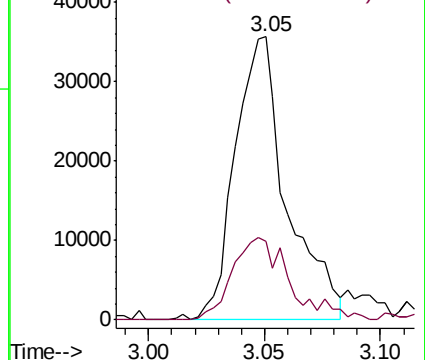
Ion Ratio Lower Upper

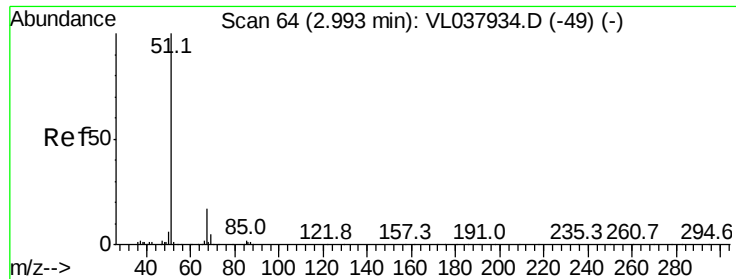
85 100

87 27.8 25.3 37.9



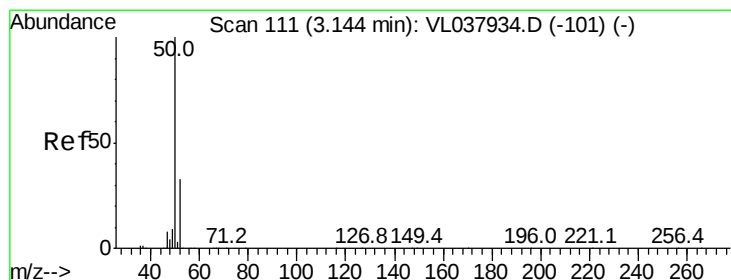
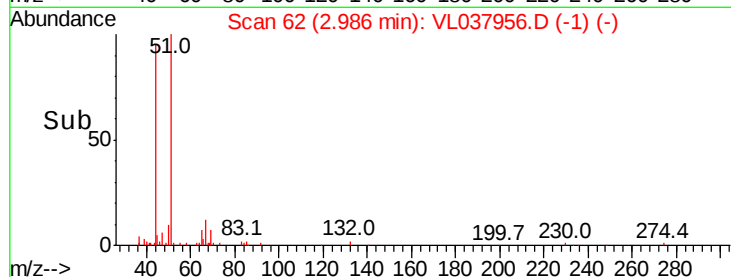
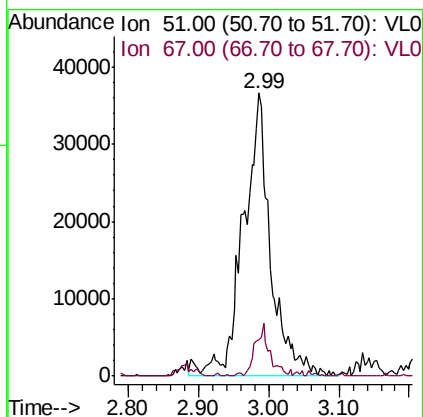
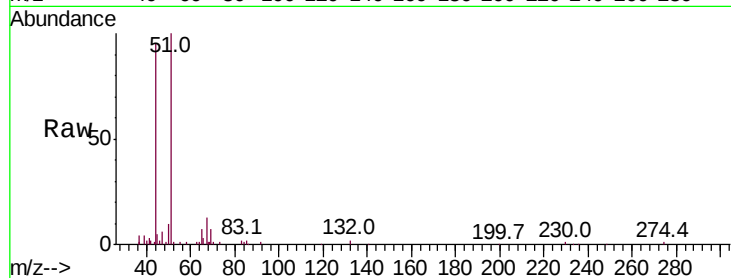
Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





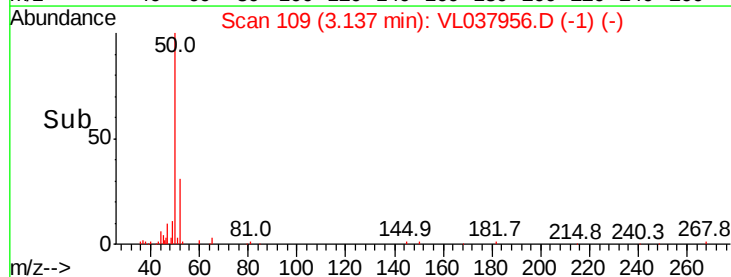
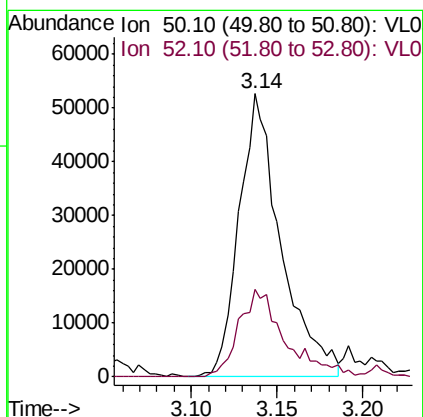
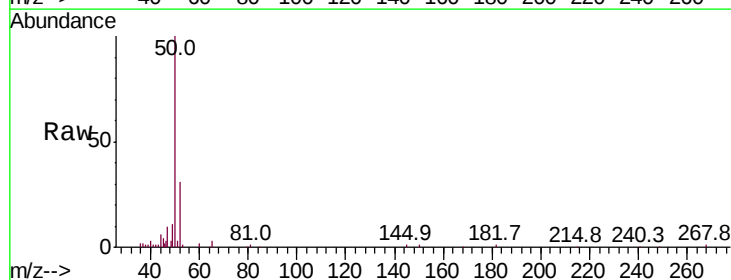
#3
 Chlorodifluoromethane
 Concen: 0.383 ppbv
 RT: 2.99
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 2 Nov 2021 2:51

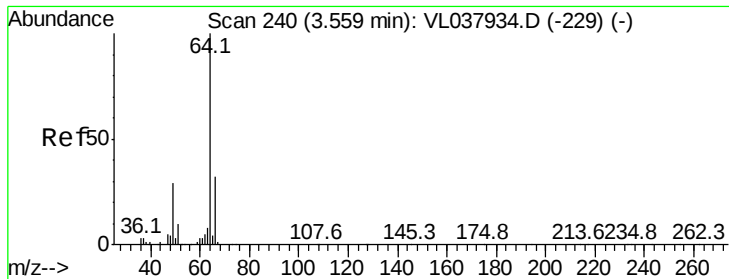
Tot Ion: 51 Resp: 98910
 Ion Ratio Lower Upper
 51 100
 67 10.6 13.4 20.0#



#4
 Chloromethane
 Concen: 0.911 ppbv
 RT: 3.14 min Scan# 109
 Delta R.T. -0.01 min
 Lab File: VL037956.D
 Acq: 2 Nov 2021 2:51

Tgt Ion: 50 Resp: 89379
 Ion Ratio Lower Upper
 50 100
 52 30.9 26.3 39.5





#7

Chloroethane

Concen: 0.035 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

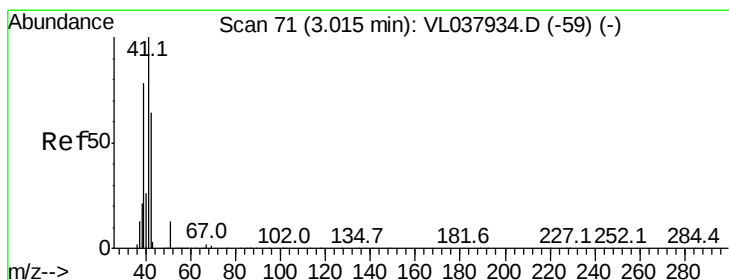
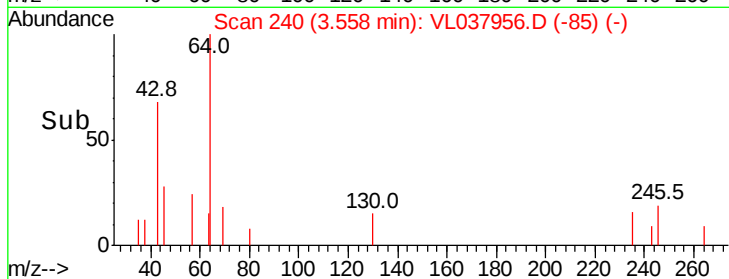
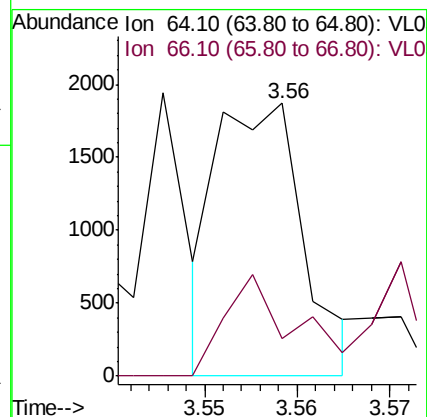
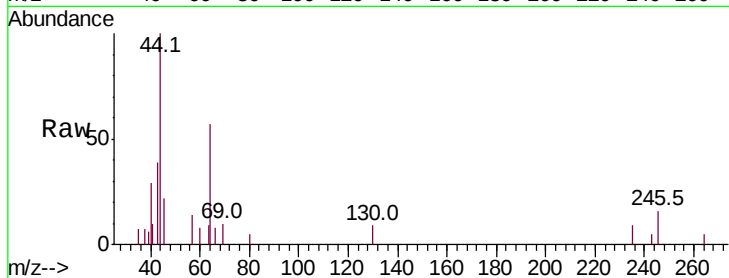
Acq: 2 Nov 2021 2:51

Tot Ion: 64 Resp: 1210

Ion Ratio Lower Upper

64 100

66 13.9 25.5 38.3#



#9

Propene

Concen: 0.349 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL037956.D

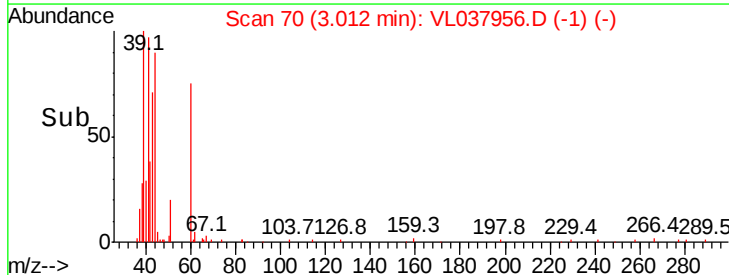
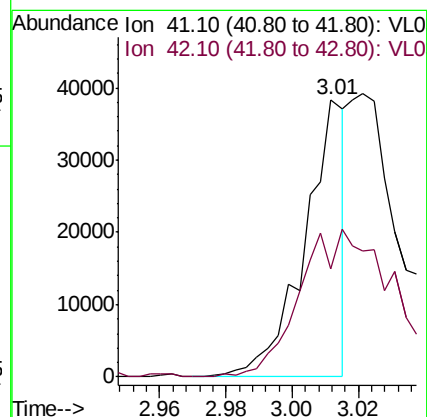
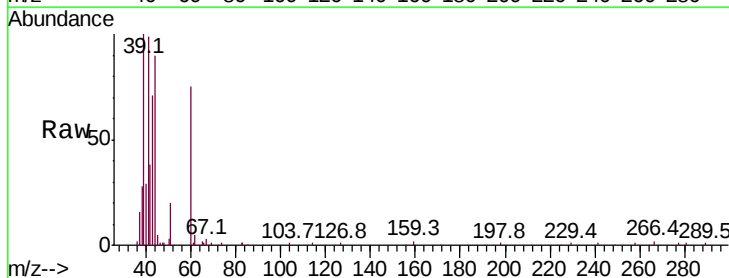
Acq: 2 Nov 2021 2:51

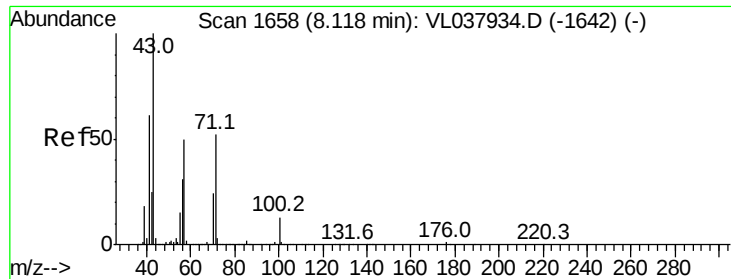
Tgt Ion: 41 Resp: 32335

Ion Ratio Lower Upper

41 100

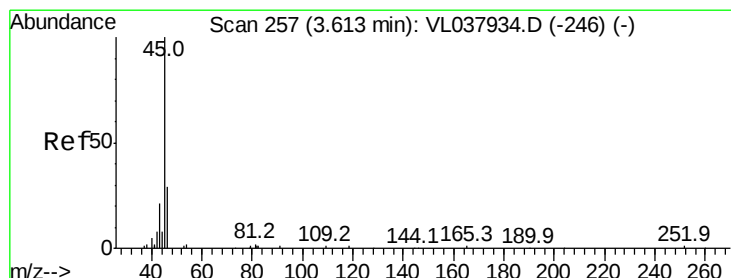
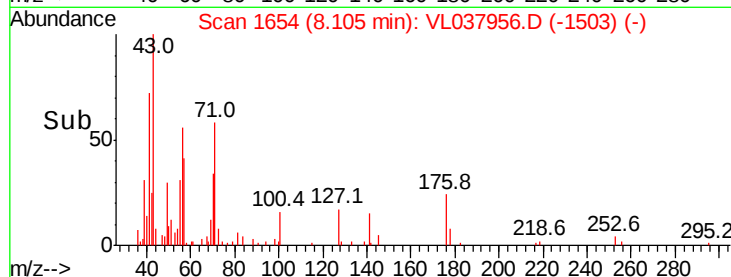
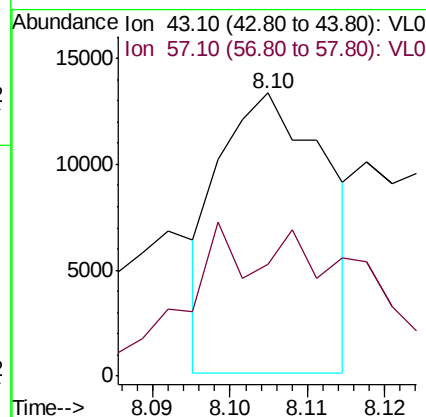
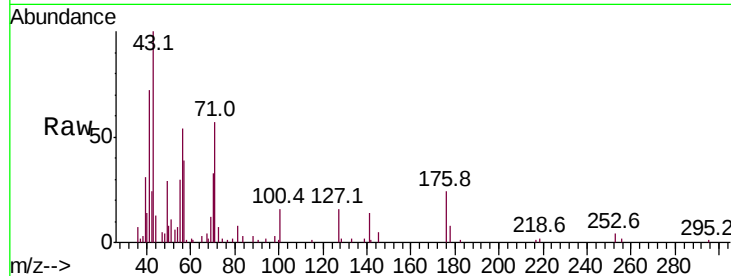
42 138.8 57.6 86.4#





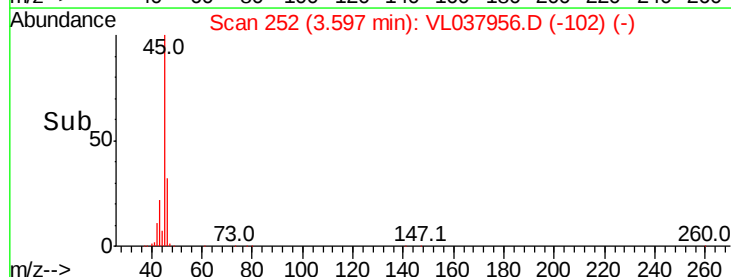
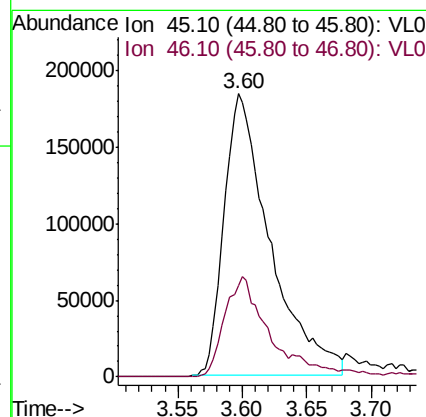
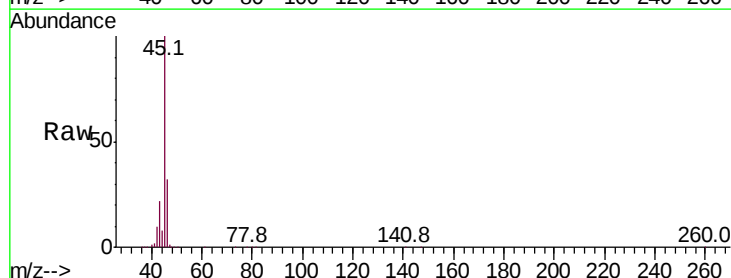
#10
 Heptane
 Concen: 0.059 ppbv
 RT: 8.10
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 2 Nov 2021 2:51

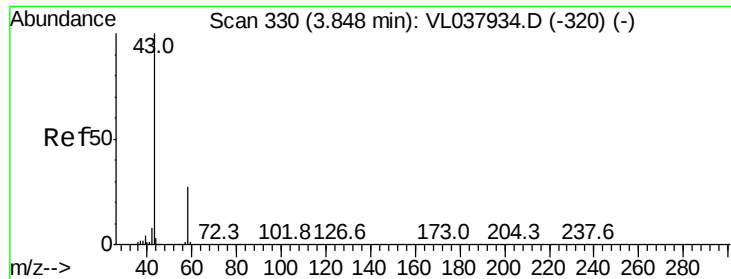
Tot Ion: 43 Resp: 12773
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.8 59.8#



#13
 Ethanol
 Concen: 48.957 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.02 min
 Lab File: VL037956.D
 Acq: 2 Nov 2021 2:51

Tgt Ion: 45 Resp: 457351
 Ion Ratio Lower Upper
 45 100
 46 36.0 17.4 69.8





#15

Acetone

Concen: 9.267 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

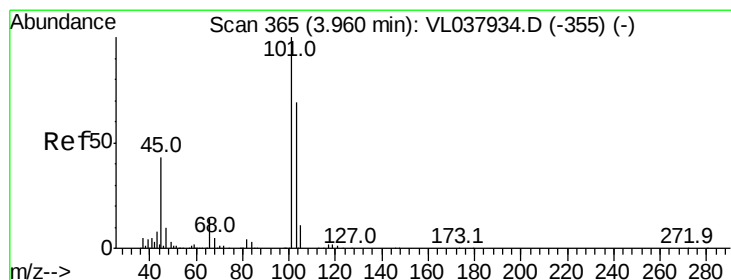
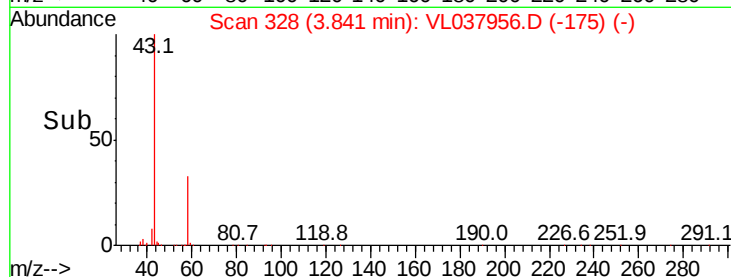
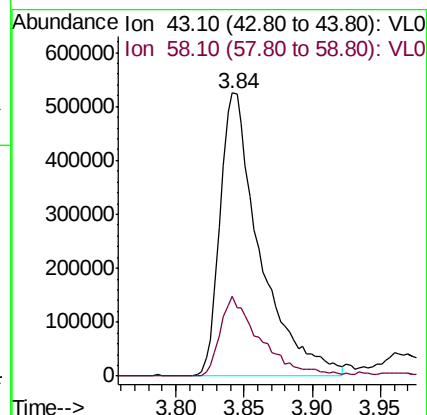
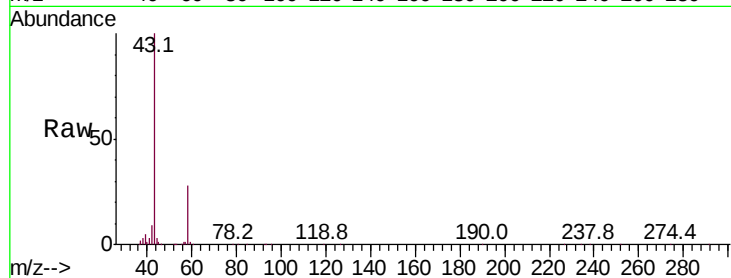
Acq: 2 Nov 2021 2:51

Tot Ion: 43 Resp: 1062434

Ion Ratio Lower Upper

43 100

58 28.7 23.3 34.9



#19

Isopropyl Alcohol

Concen: 4.386 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL037956.D

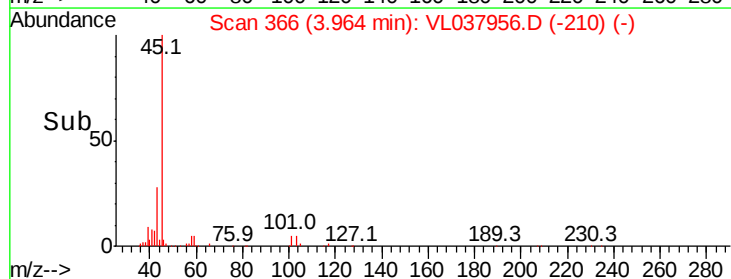
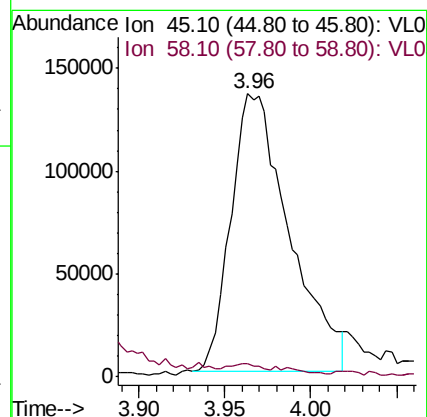
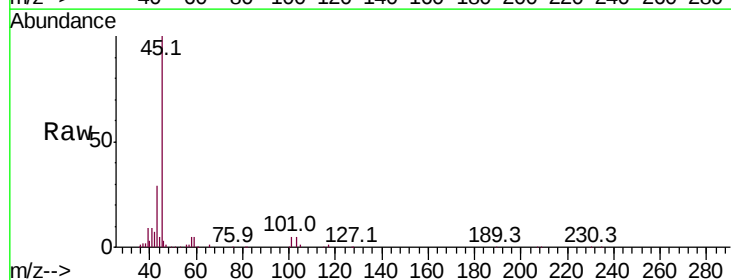
Acq: 2 Nov 2021 2:51

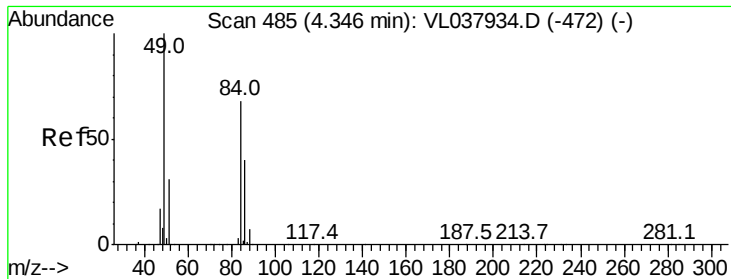
Tgt Ion: 45 Resp: 321581

Ion Ratio Lower Upper

45 100

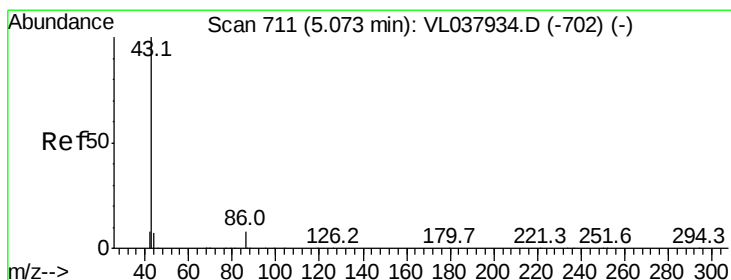
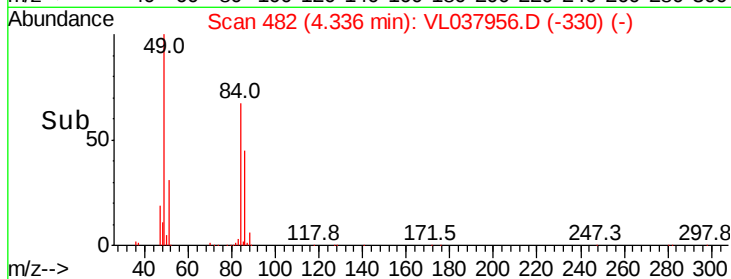
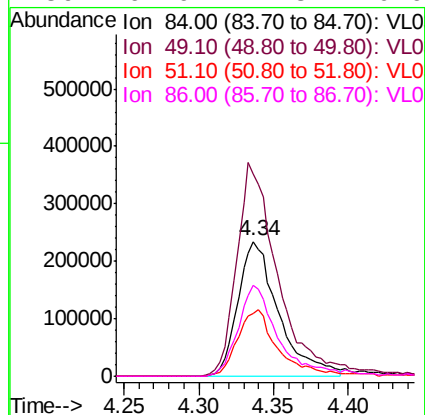
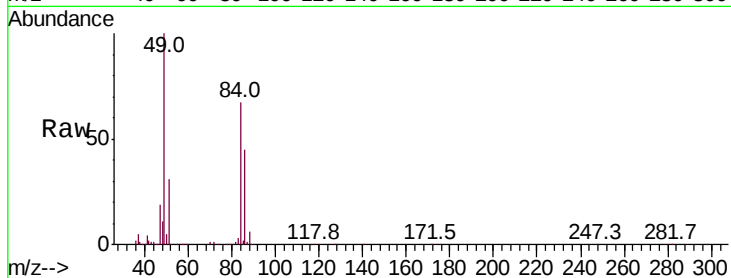
58 96.2 4.0 6.0#





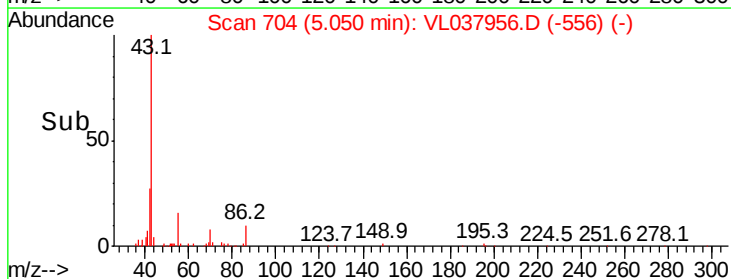
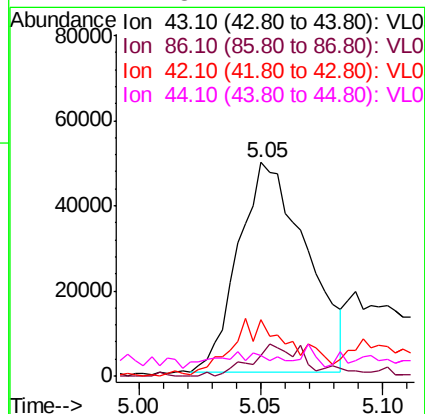
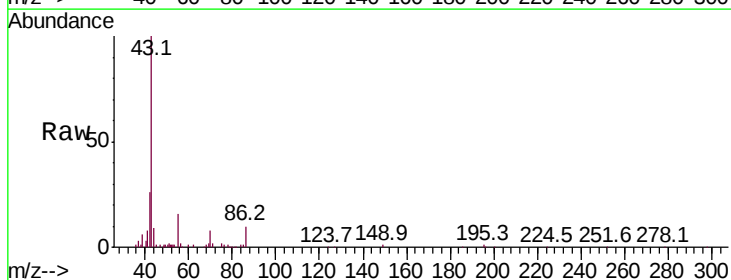
#20
Methvlene Chloride
Concen: 7.021 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Nov 2021 2:51

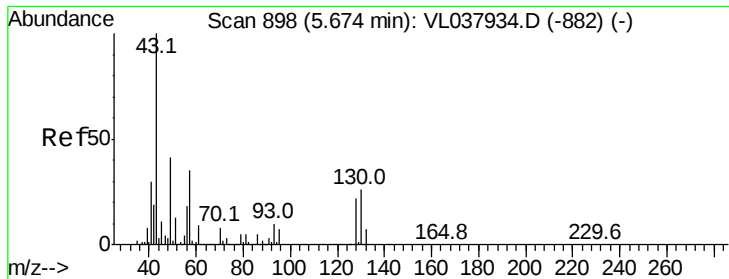
Tot Ion:	84	Resp:	441887
Ion	Ratio	Lower	Upper
84	100		
49	150.4	117.5	176.3
51	46.9	35.9	53.9
86	67.9	47.3	70.9



#23
Vinyl Acetate
Concen: 0.555 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.02 min
Lab File: VL037956.D
Acq: 2 Nov 2021 2:51

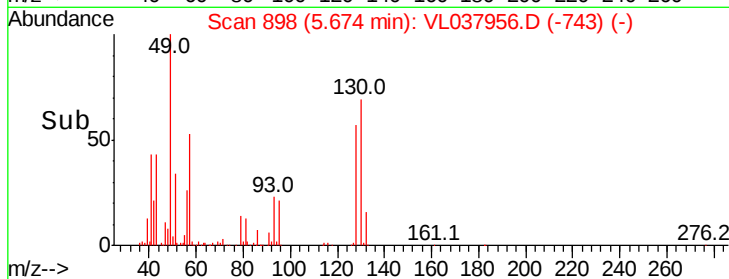
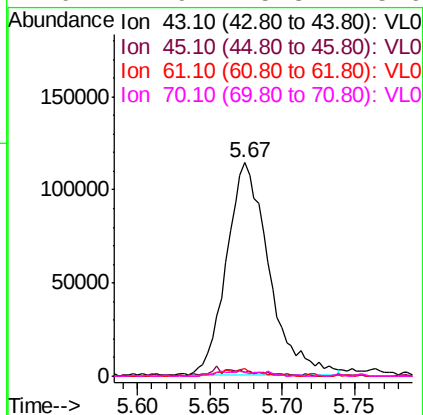
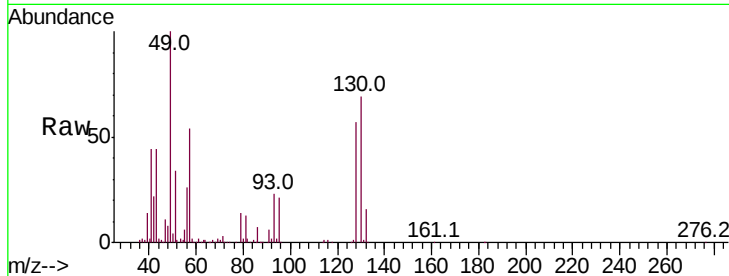
Tgt Ion:	43	Resp:	95808
Ion	Ratio	Lower	Upper
43	100		
86	9.7	5.5	8.3#
42	26.0	7.4	11.2#
44	2.8	4.7	7.1#





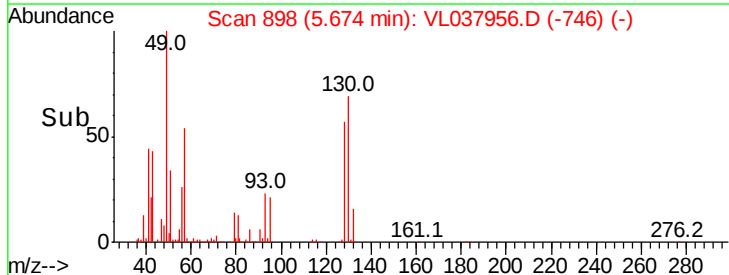
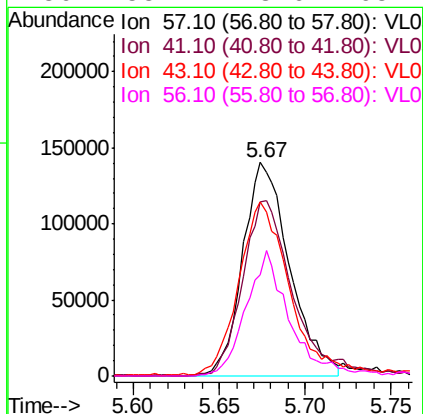
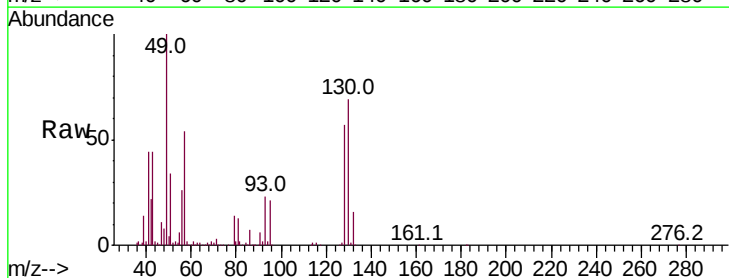
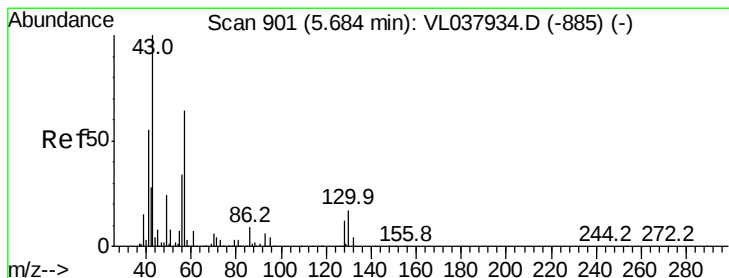
#25
Ethyl Acetate
Concen: 0.676 ppbv
RT: 5.67 min
Delta R.T.: MSVOA_1
Lab File: ClientSampleId :
Acq: 2 Nov 2021 2:51

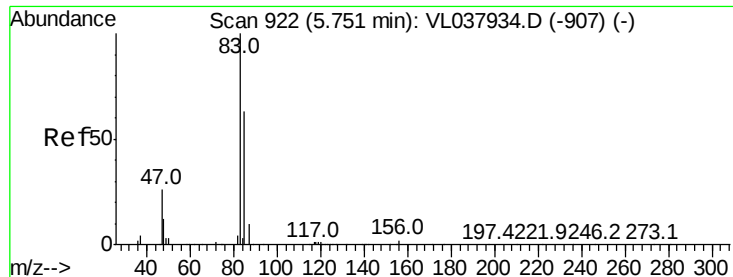
Tot Ion:	43	Resp:	230036
Ion	Ratio	Lower	Upper
43	100		
45	4.2	8.1	12.1#
61	3.4	8.1	12.1#
70	2.9	5.8	8.6#



#26
Hexane
Concen: 1.654 ppbv
RT: 5.67 min Scan# 898
Delta R.T.: -0.01 min
Lab File: VL037956.D
Acq: 2 Nov 2021 2:51

Tgt Ion:	57	Resp:	266768
Ion	Ratio	Lower	Upper
57	100		
41	89.1	71.0	106.6
43	87.0	173.0	259.6#
56	55.2	43.6	65.4





#29

Chloroform

Concen: 0.094 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

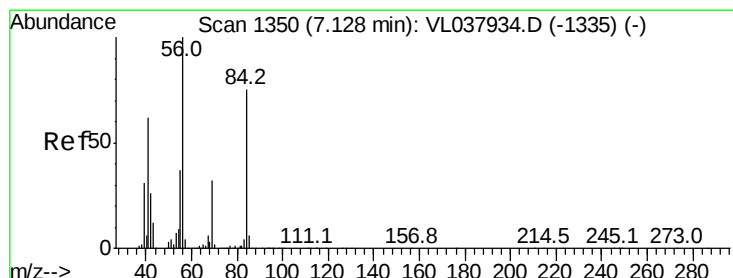
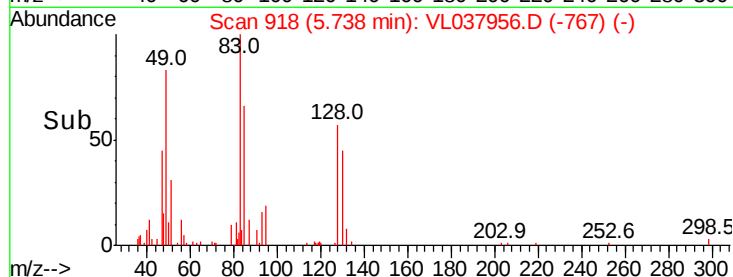
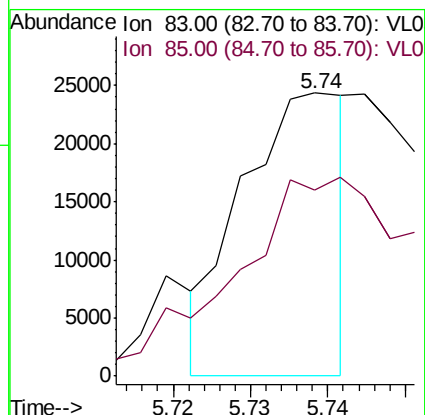
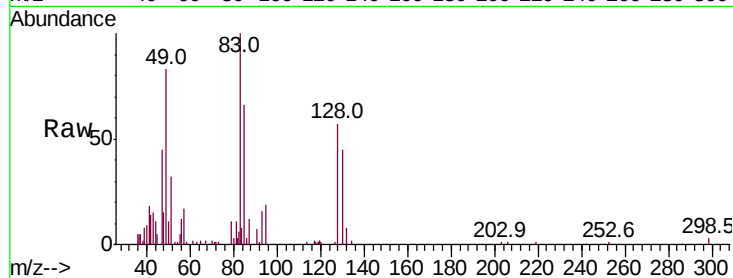
Acq: 2 Nov 2021 2:51

Tot Ion: 83 Resp: 22595

Ion Ratio Lower Upper

83 100

85 64.6 50.6 76.0



#30

Cyclohexane

Concen: 0.063 ppbv

RT: 7.12 min Scan# 1347

Delta R.T. -0.01 min

Lab File: VL037956.D

Acq: 2 Nov 2021 2:51

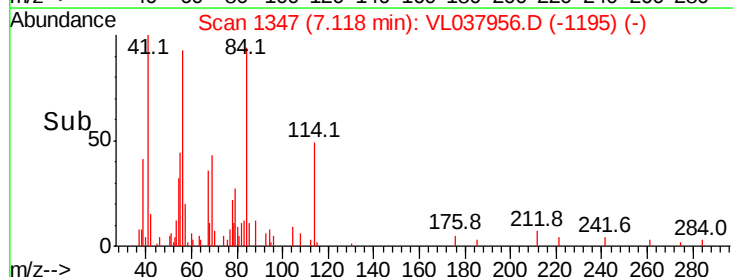
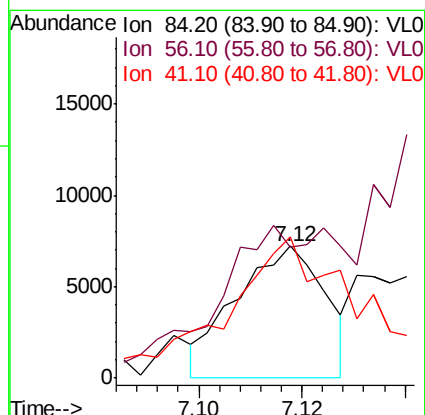
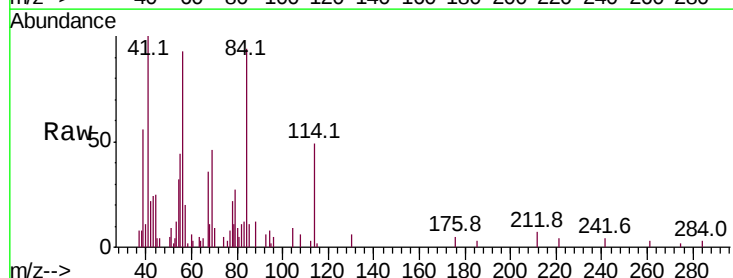
Tgt Ion: 84 Resp: 8623

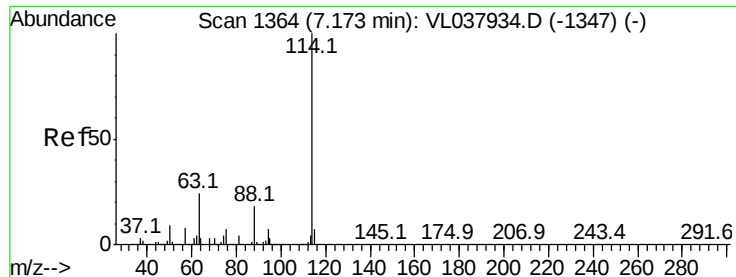
Ion Ratio Lower Upper

84 100

56 0.0 114.0 171.0#

41 169.6 68.3 102.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Nov 2021 2:51

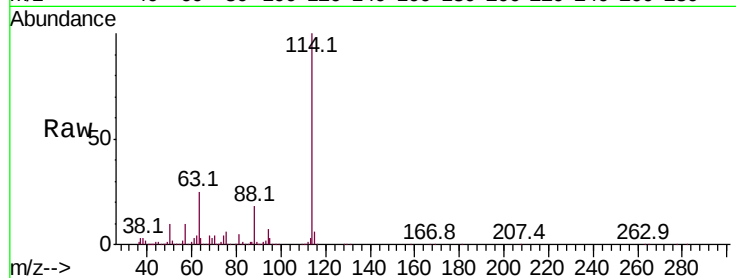
Tot Ion:114 Resp: 3899180

Ion Ratio Lower Upper

114 100

63 24.2 19.4 29.0

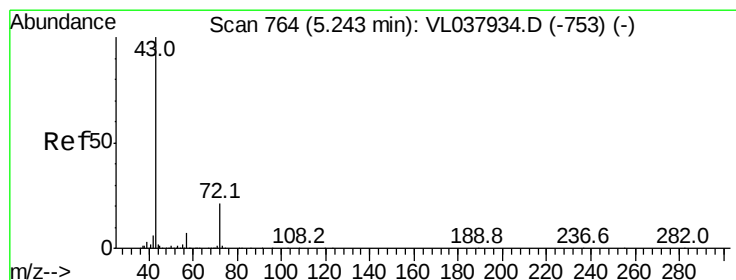
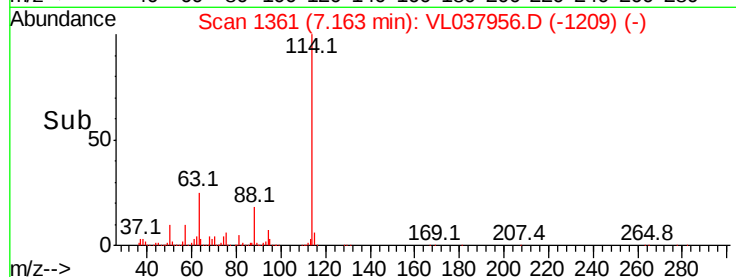
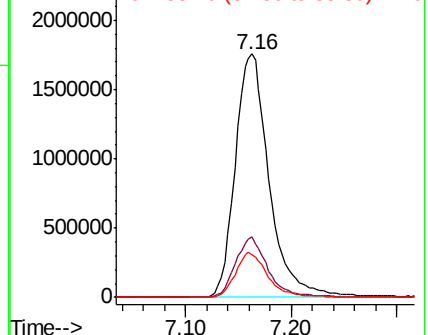
88 17.8 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.280 ppbv

RT: 5.23 min Scan# 761

Delta R.T. -0.01 min

Lab File: VL037956.D

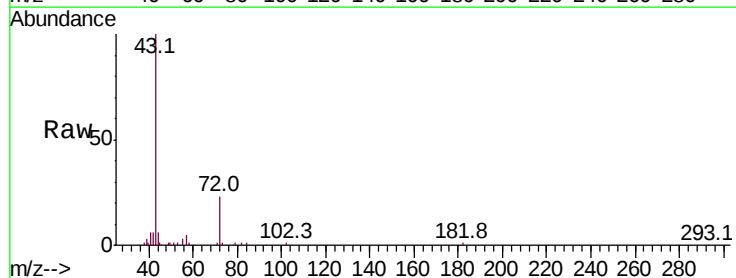
Acq: 2 Nov 2021 2:51

Tgt Ion: 43 Resp: 40504

Ion Ratio Lower Upper

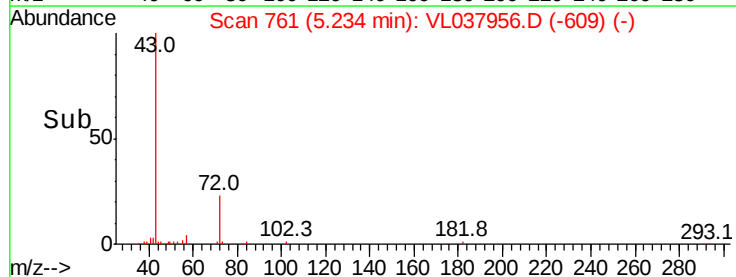
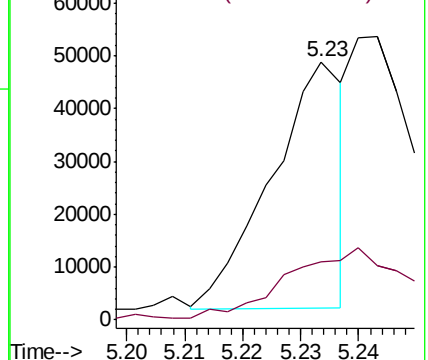
43 100

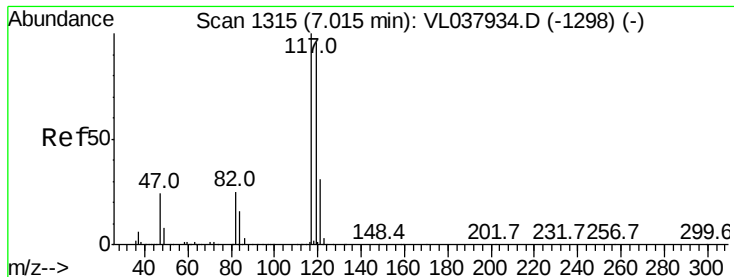
72 0.0 18.3 27.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.032 ppbv

RT: 7.01 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Nov 2021 2:51

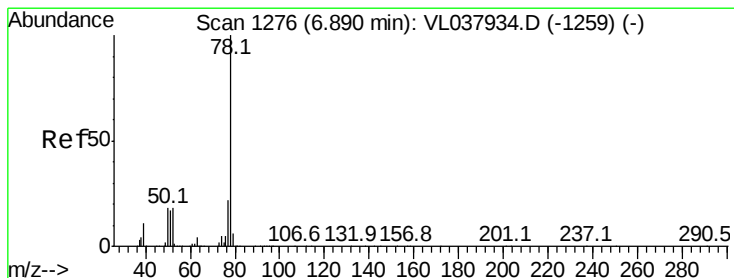
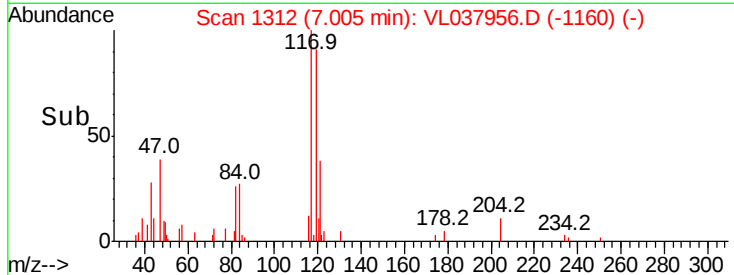
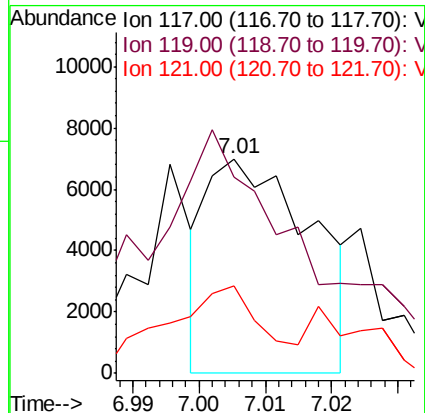
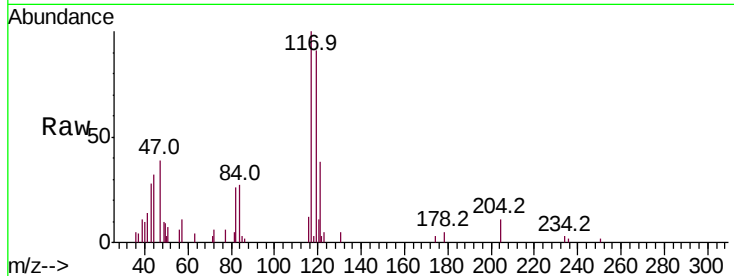
Tot Ion:117 Resp: 7649

Ion Ratio Lower Upper

117 100

119 122.5 76.6 114.8#

121 57.7 25.1 37.7#



#36

Benzene

Concen: 0.055 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL037956.D

Acq: 2 Nov 2021 2:51

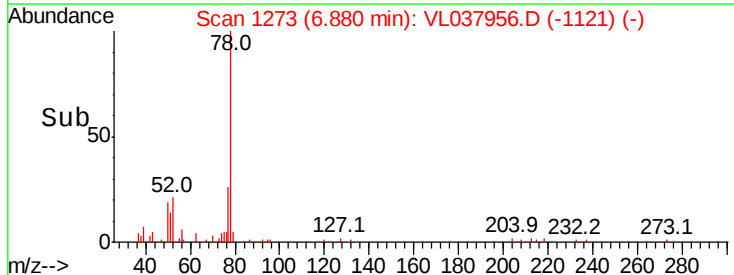
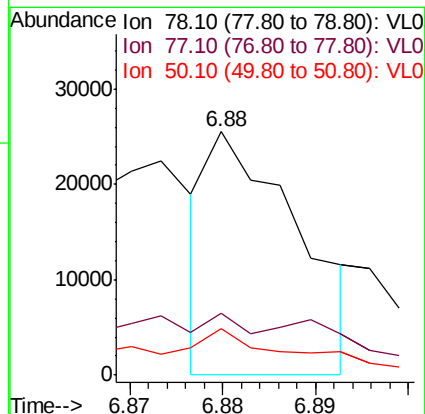
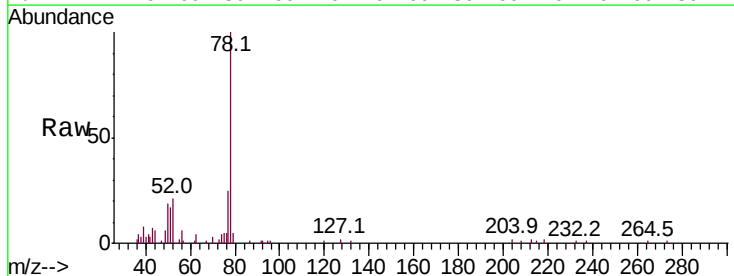
Tgt Ion: 78 Resp: 17328

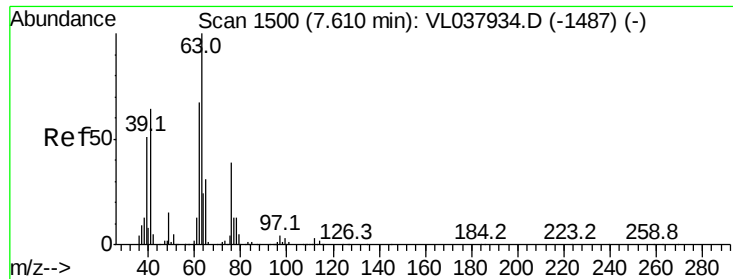
Ion Ratio Lower Upper

78 100

77 15.2 17.9 26.9#

50 17.3 14.4 21.6





#39

1,2-Dichloropropane

Concen: 7.713 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Nov 2021 2:51

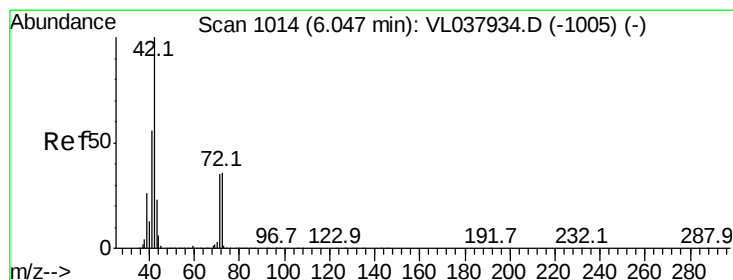
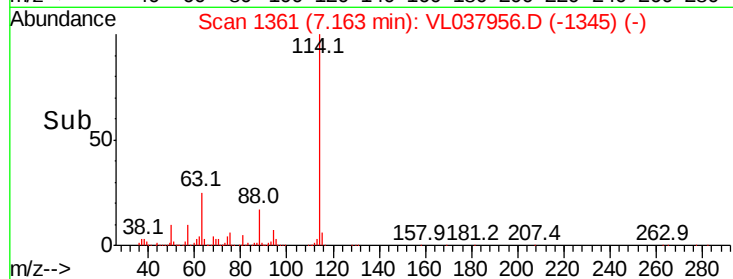
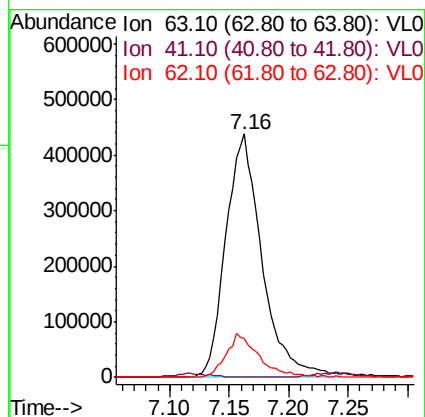
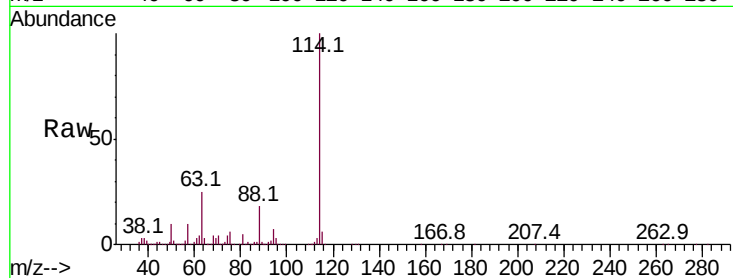
Tot Ion: 63 Resp: 921560

Ion Ratio Lower Upper

63 100

41 0.0 51.6 77.4#

62 15.8 53.5 80.3#



#41

Tetrahydrofuran

Concen: 1.505 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.37 min

Lab File: VL037956.D

Acq: 2 Nov 2021 2:51

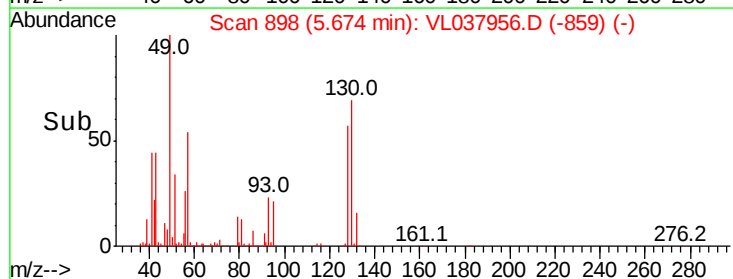
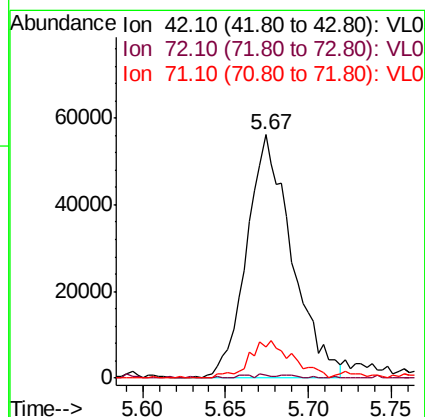
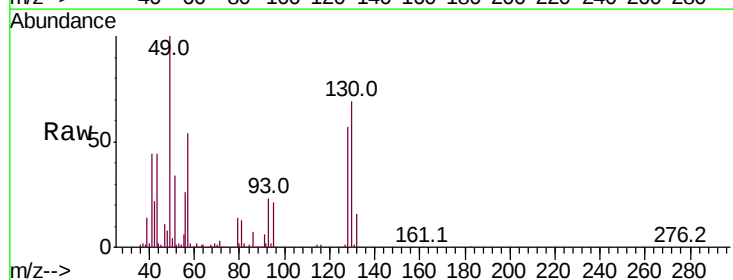
Tgt Ion: 42 Resp: 106416

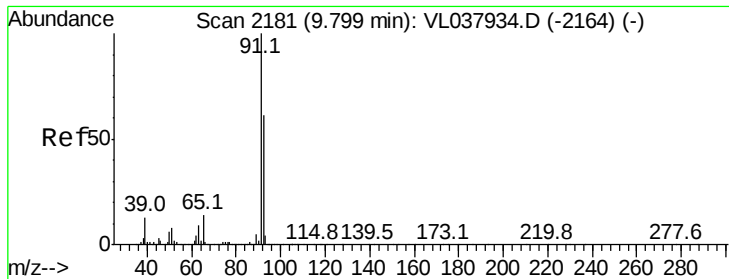
Ion Ratio Lower Upper

42 100

72 1.4 31.5 47.3#

71 17.0 30.5 45.7#





#53

Toluene

Concen: 0.328 ppbv

RT: 9.79 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1

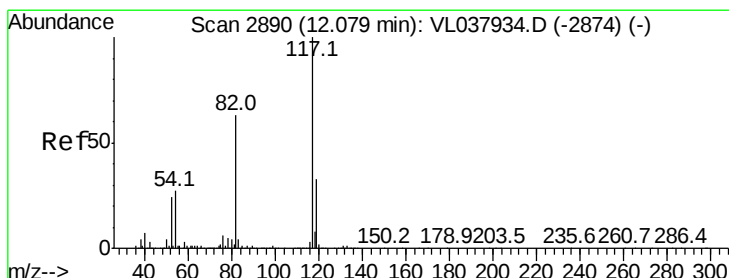
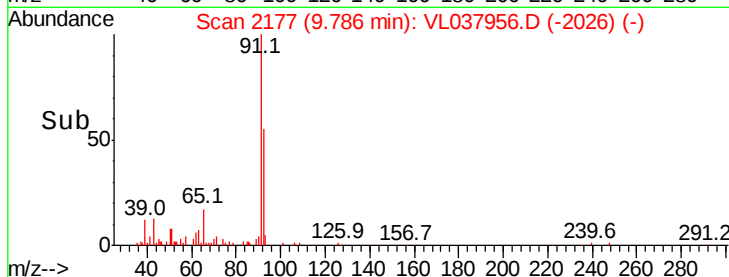
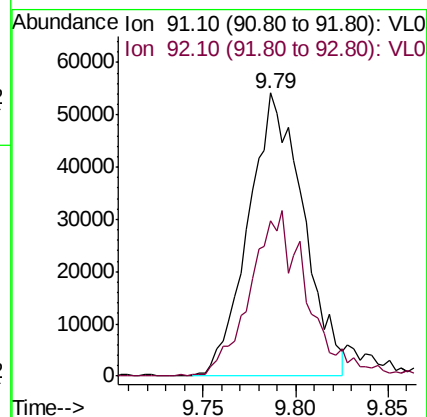
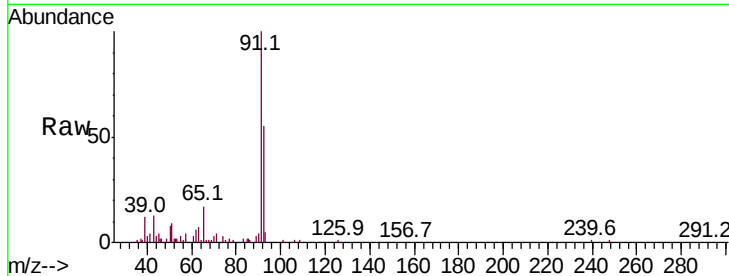
Acq: 2 Nov 2021 2:51

Tot Ion: 91 Resp: 111823

Ion Ratio Lower Upper

91 100

92 61.6 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.01 min

Lab File: VL037956.D

Acq: 2 Nov 2021 2:51

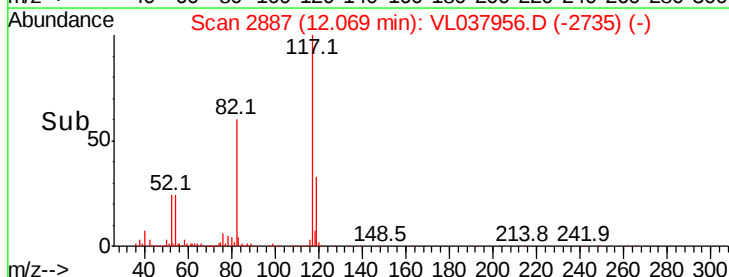
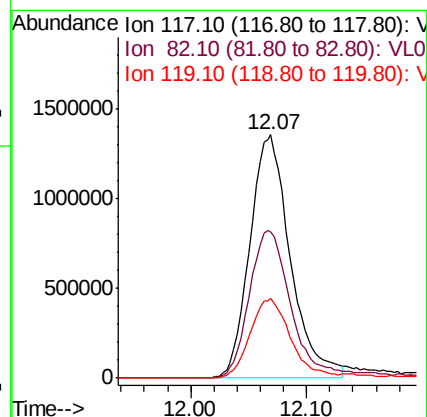
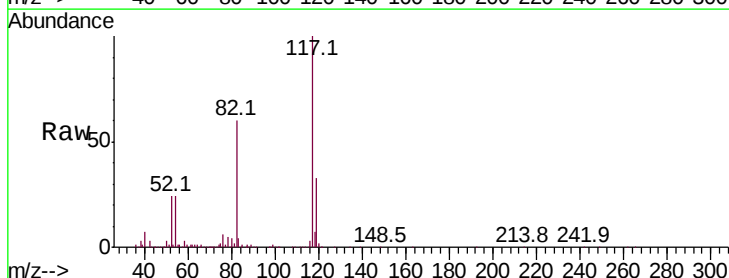
Tgt Ion: 117 Resp: 3289663

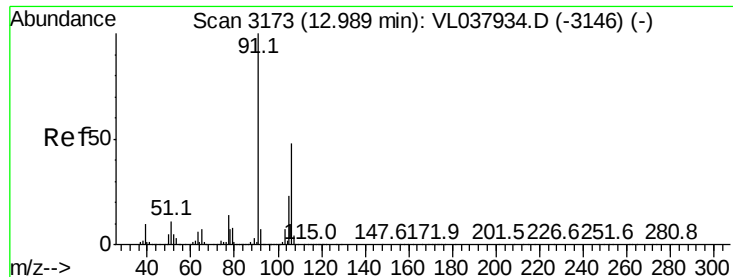
Ion Ratio Lower Upper

117 100

82 65.6 51.0 76.6

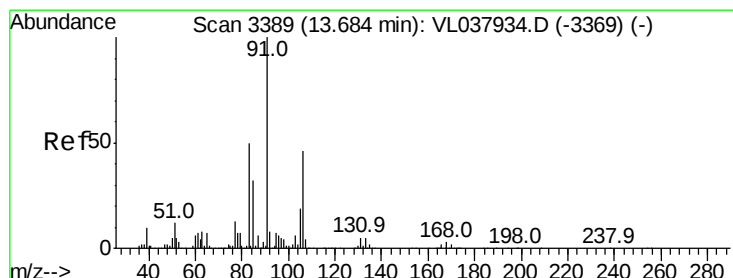
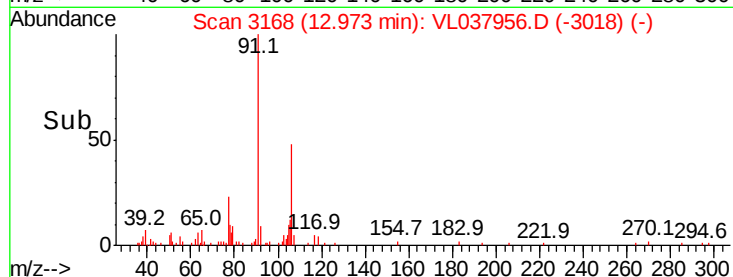
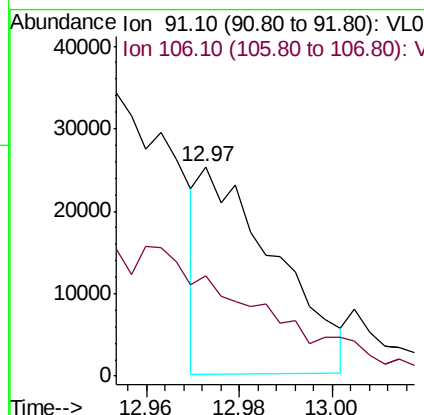
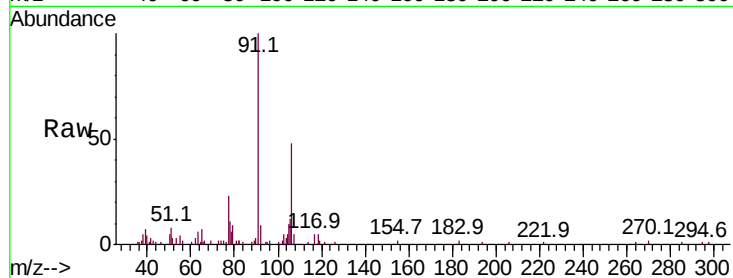
119 35.5 26.9 40.3





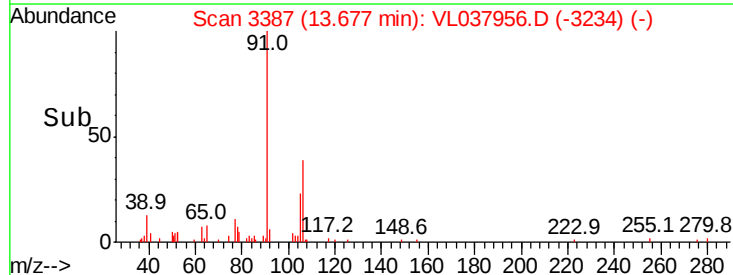
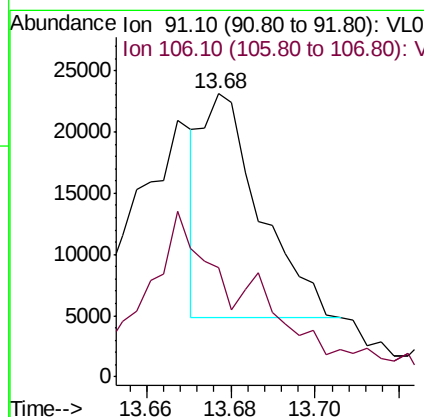
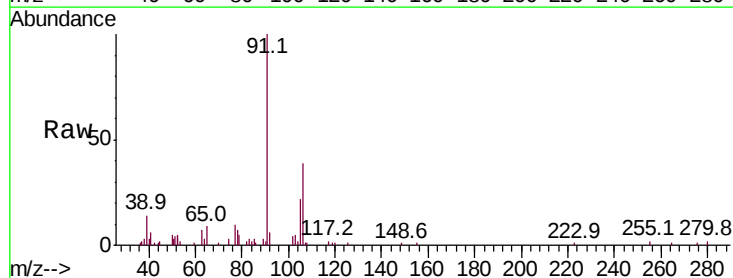
#59
m/p-Xylene
Concen: 0.079 ppbv
RT: 12.97
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 2 Nov 2021 2:51

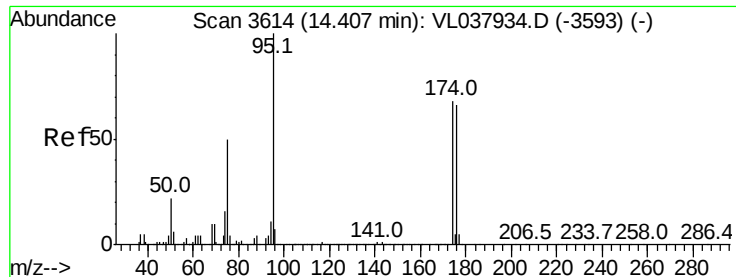
Tot Ion: 91 Resp: 28304
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#



#60
o-Xylene
Concen: 0.052 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.01 min
Lab File: VL037956.D
Acq: 2 Nov 2021 2:51

Tgt Ion: 91 Resp: 17421
Ion Ratio Lower Upper
91 100
106 0.0 23.5 70.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.008 ppbv

RT: 14.40 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Nov 2021 2:51

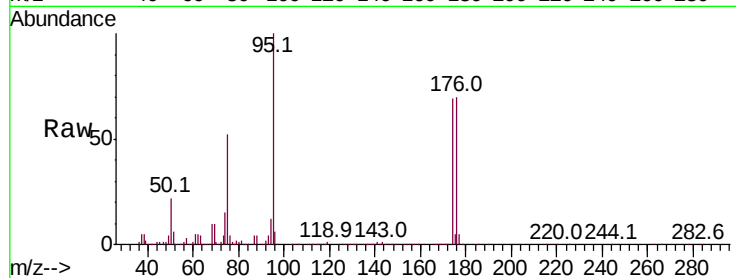
Tot Ion: 95 Resp: 2393116

Ion Ratio Lower Upper

95 100

174 76.8 58.3 87.5

175 6.0 4.6 6.8



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

