

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070522\
 Data File : VL039429.D
 Acq On : 5 Jul 2022 21:37
 Operator : SY/AP
 Sample : N3560-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Jul 06 02:37:03 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1113680	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3055135	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	2617169	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1902445	9.80	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

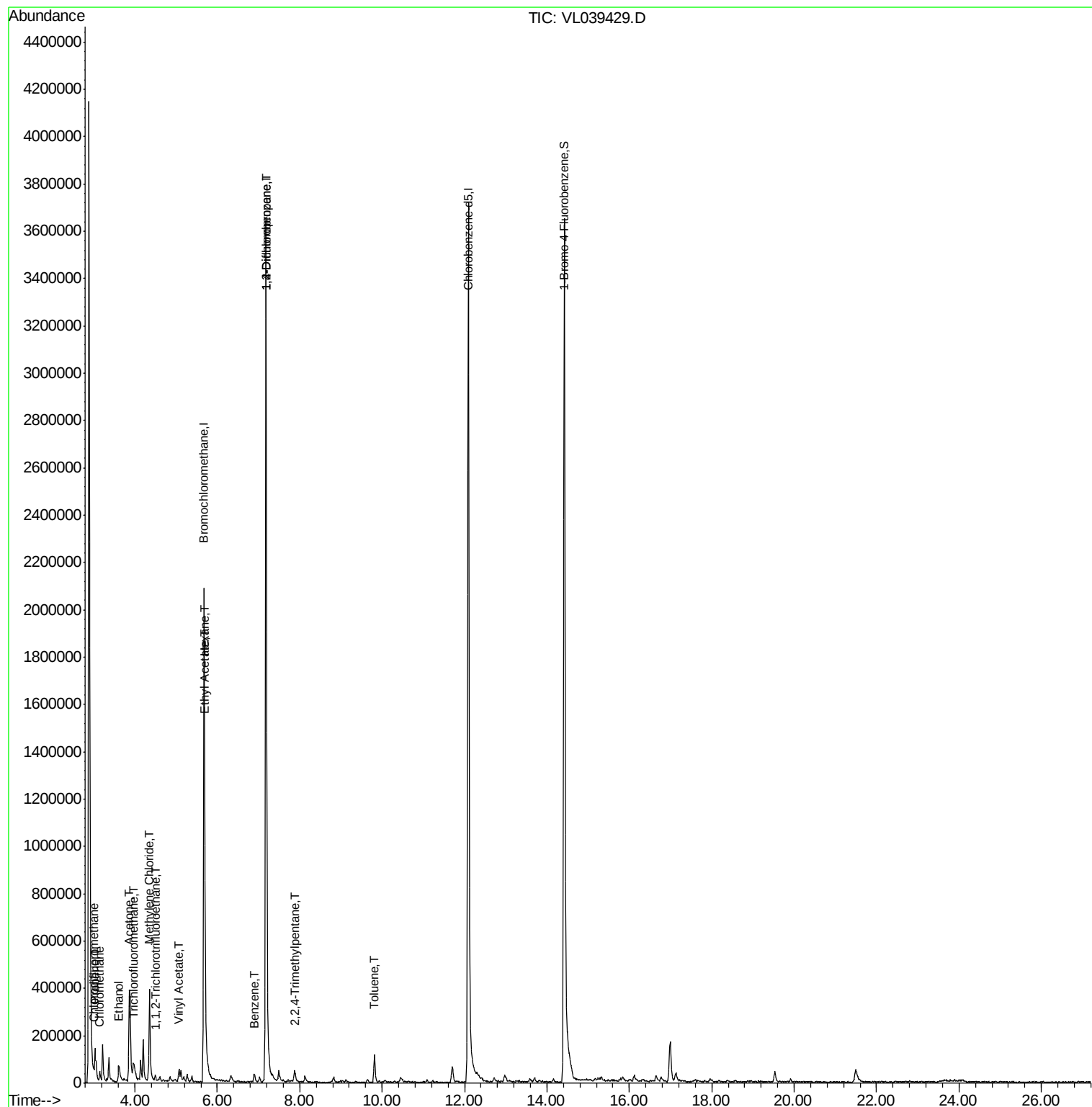
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	65482	0.463	ppbv #	89
4) Chloromethane	3.15	50	35726	0.462	ppbv	93
9) Propene	3.03	41	33850	0.530	ppbv #	78
11) Trichlorofluoromethane	3.96	101	39256	0.219	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5196	0.039	ppbv #	31
13) Ethanol	3.61	45	42277	11.420	ppbv #	23
15) Acetone	3.86	43	598966	4.546	ppbv	97
20) Methylene Chloride	4.35	84	160839	3.063	ppbv	90
23) Vinyl Acetate	5.07	43	24292	0.276	ppbv #	60
25) Ethyl Acetate	5.70	43	48258	0.179	ppbv #	81
26) Hexane	5.70	57	115729	1.063	ppbv #	46
36) Benzene	6.90	78	16256	0.069	ppbv #	73
39) 1,2-Dichloropropane	7.18	63	745129	8.435	ppbv #	24
44) 2,2,4-Trimethylpentane	7.88	57	12730	0.032	ppbv #	1
53) Toluene	9.81	91	79881	0.293	ppbv	95

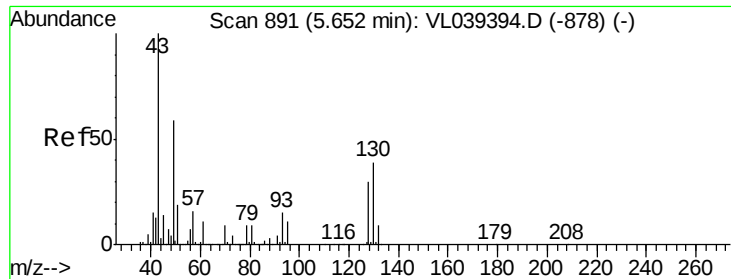
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OA1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
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QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 5 Jul 2022 21:37

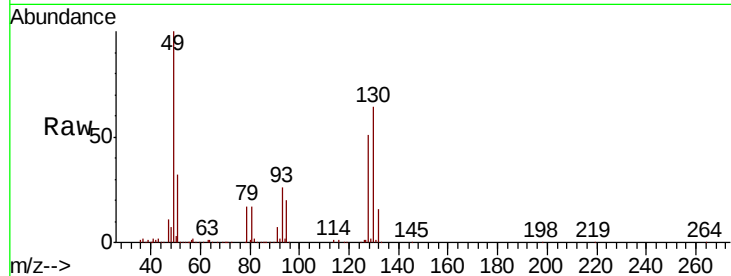
Tot Ion: 49 Resp: 1113680

Ion	Ratio	Lower	Upper
49	100		
128	52.1	26.7	80.0
130	67.3	34.3	102.8

49 100

128 52.1 26.7 80.0

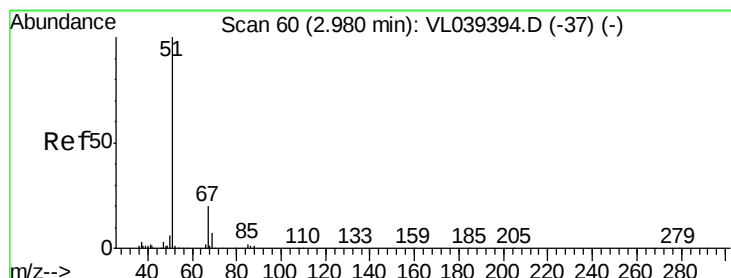
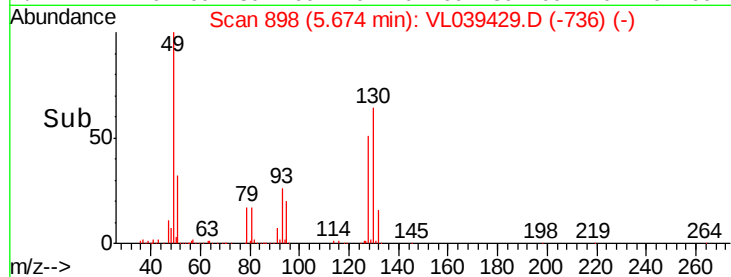
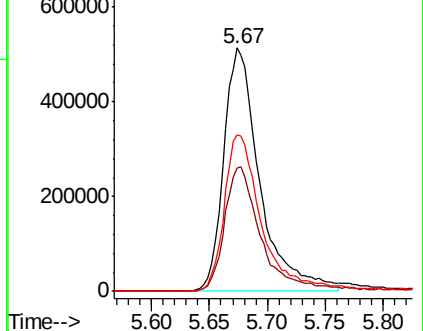
130 67.3 34.3 102.8



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



#3

Chlorodifluoromethane

Concen: 0.463 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.02 min

Lab File: VL039429.D

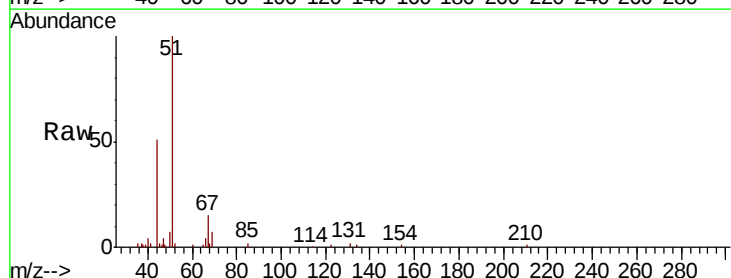
Acq: 5 Jul 2022 21:37

Tgt Ion: 51 Resp: 65482

Ion	Ratio	Lower	Upper
51	100		
67	14.4	15.7	23.5#

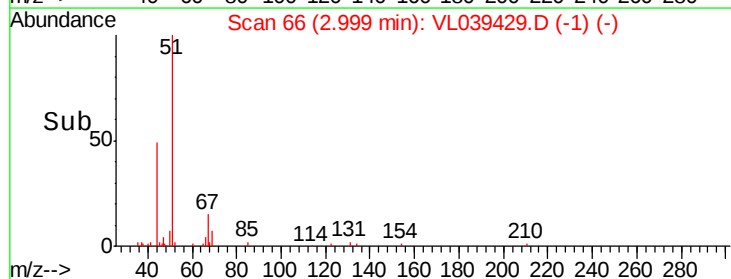
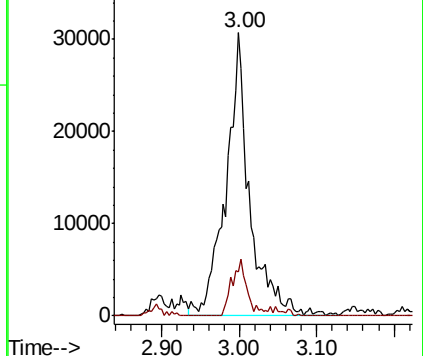
51 100

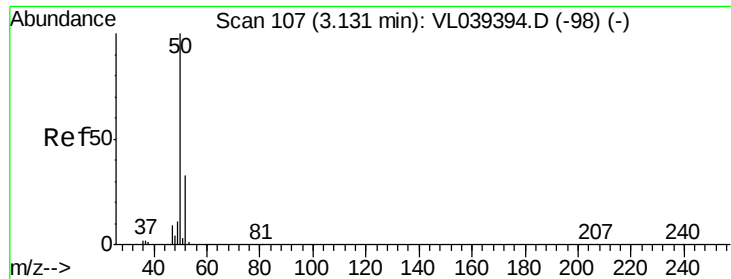
67 14.4 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.462 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

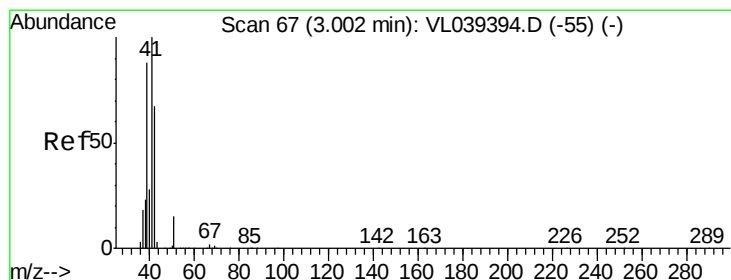
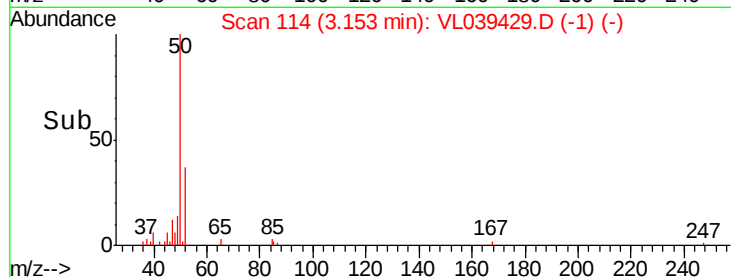
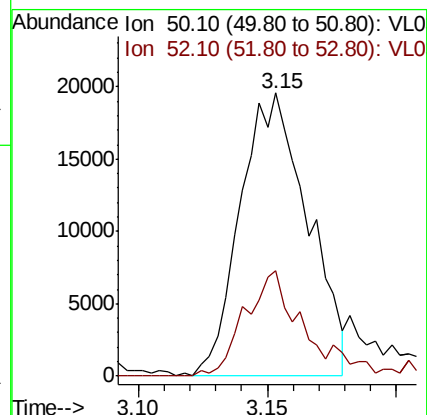
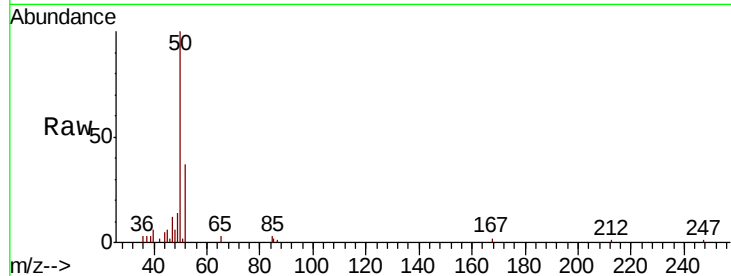
Acq: 5 Jul 2022 21:37

Tot Ion: 50 Resp: 35726

Ion Ratio Lower Upper

50 100

52 37.3 26.5 39.7



#9

Propene

Concen: 0.530 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.03 min

Lab File: VL039429.D

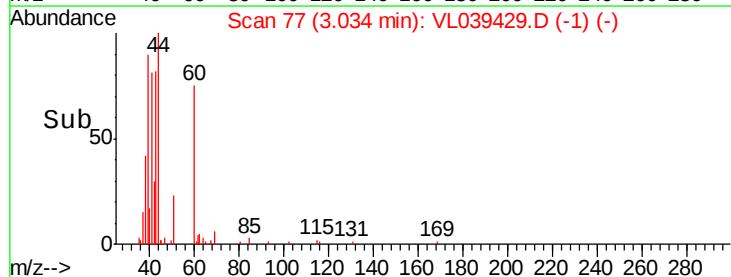
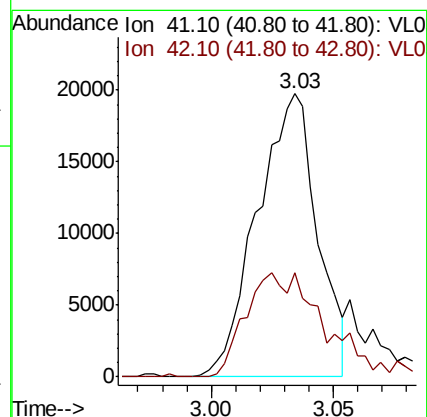
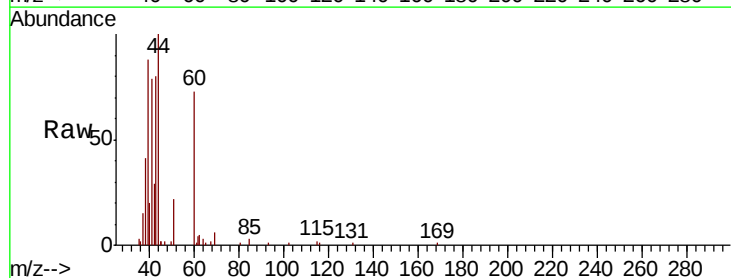
Acq: 5 Jul 2022 21:37

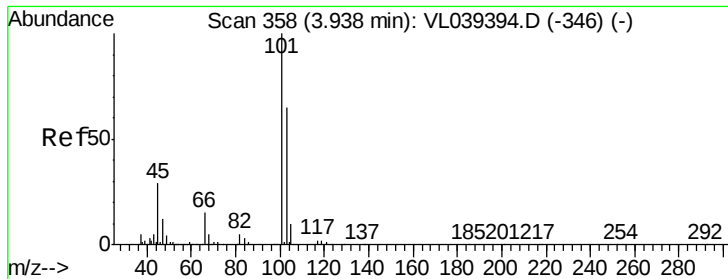
Tgt Ion: 41 Resp: 33850

Ion Ratio Lower Upper

41 100

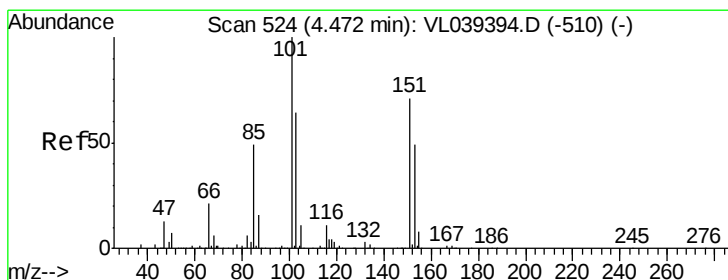
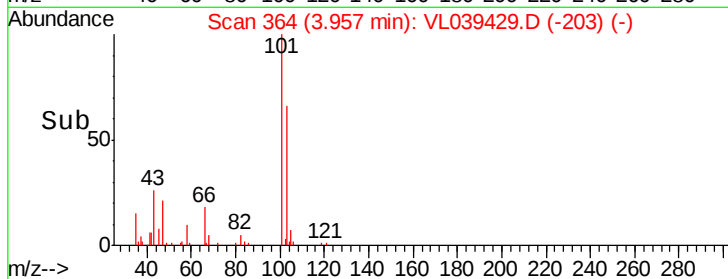
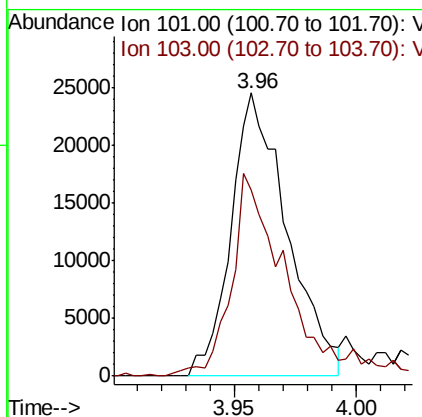
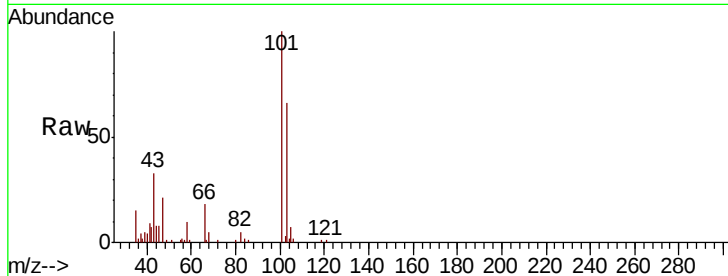
42 50.7 55.2 82.8#





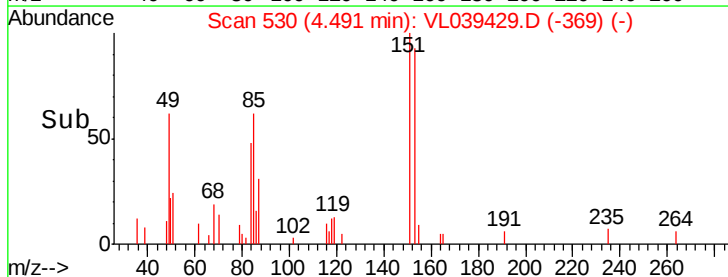
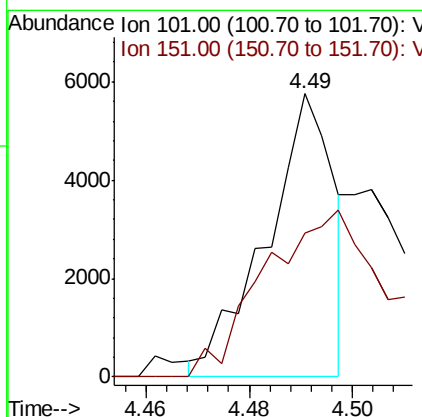
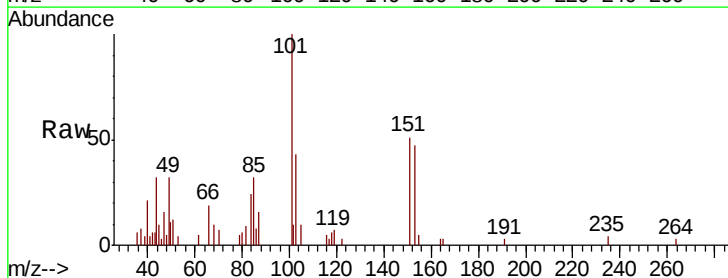
#11
 Trichlorofluoromethane
 Concen: 0.219 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 21:37

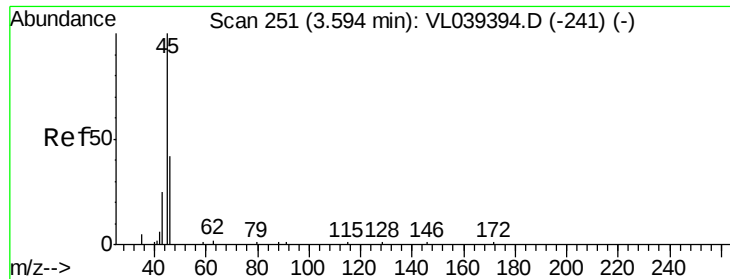
Tot Ion:101 Resp: 39256
 Ion Ratio Lower Upper
 101 100
 103 62.7 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. 0.02 min
 Lab File: VL039429.D
 Acq: 5 Jul 2022 21:37

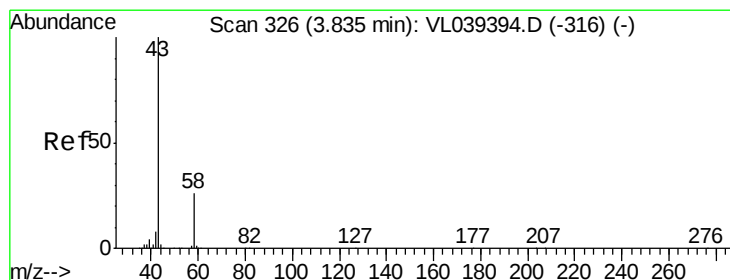
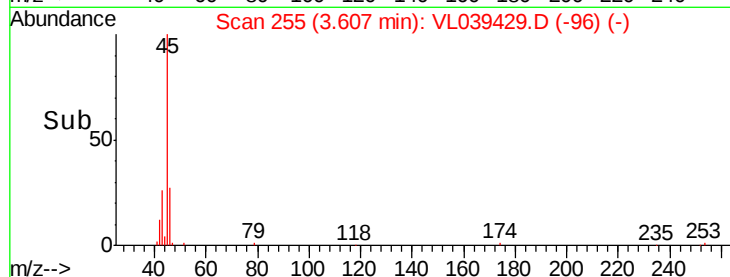
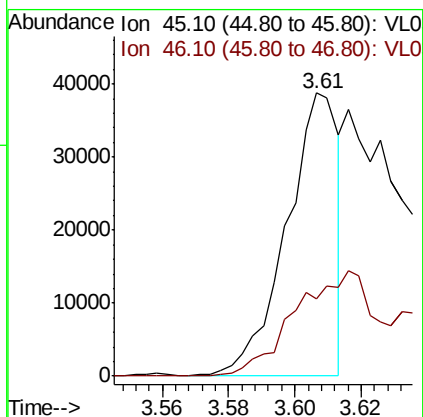
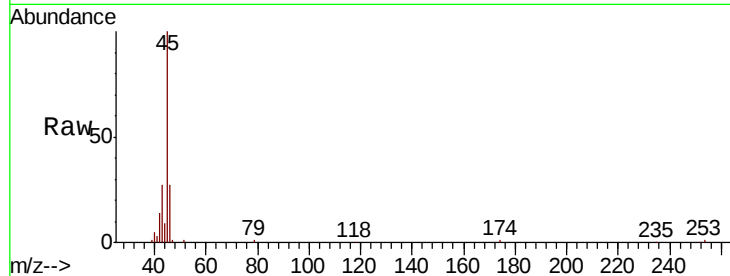
Tgt Ion:101 Resp: 5196
 Ion Ratio Lower Upper
 101 100
 151 131.5 58.9 88.3#





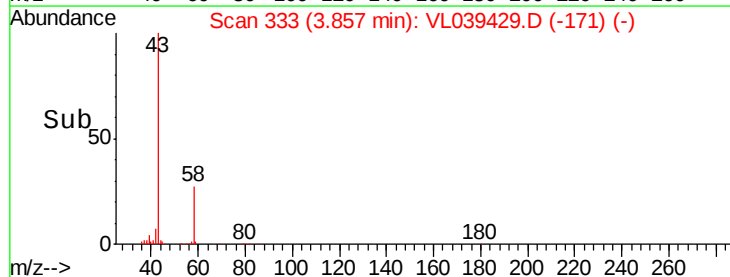
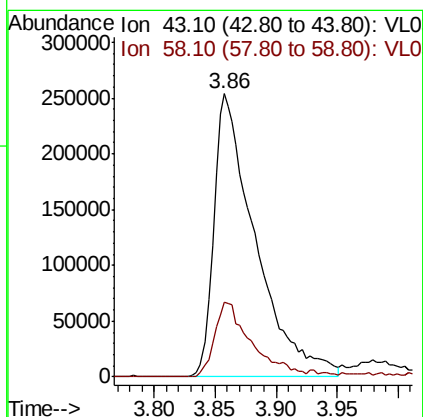
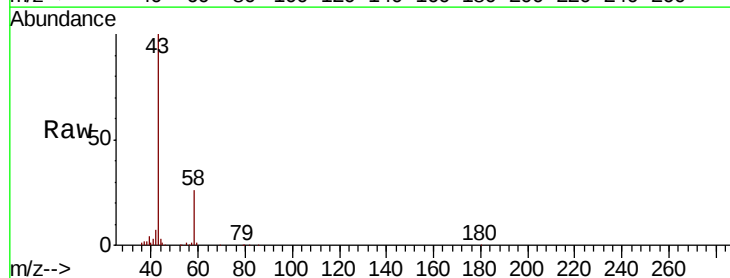
#13
Ethanol
Concen: 11.420 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 21:37

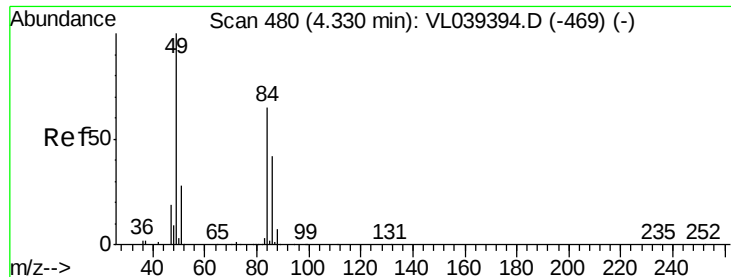
Tot Ion: 45 Resp: 42277
Ion Ratio Lower Upper
45 100
46 0.0 22.8 91.2#



#15
Acetone
Concen: 4.546 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL039429.D
Acq: 5 Jul 2022 21:37

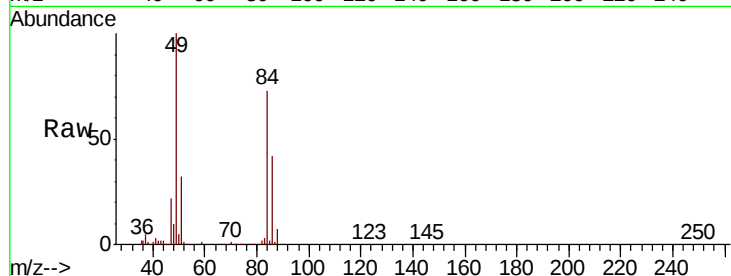
Tgt Ion: 43 Resp: 598966
Ion Ratio Lower Upper
43 100
58 24.9 21.0 31.6



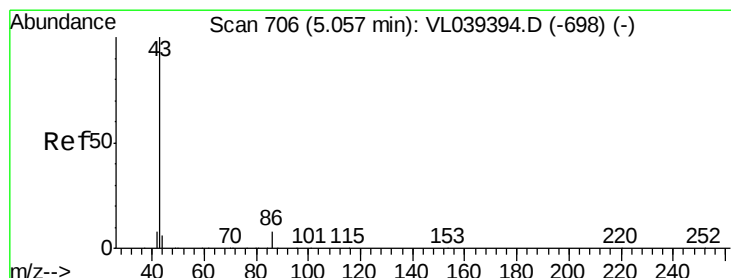
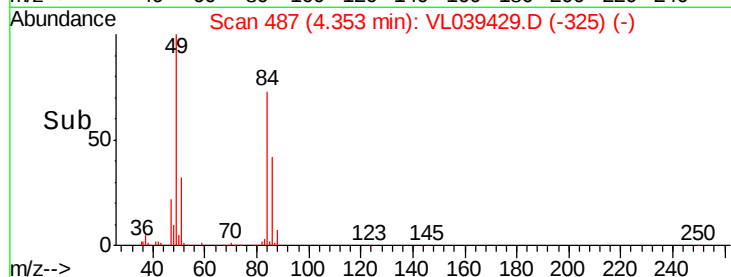
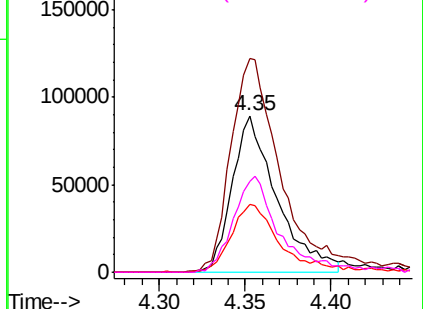


#20
Methvlene Chloride
Concen: 3.063 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 5 Jul 2022 21:37

Tot Ion:	84	Resp:	160839
Ion	Ratio	Lower	Upper
84	100		
49	136.1	123.1	184.7
51	43.1	34.4	51.6
86	58.0	51.1	76.7

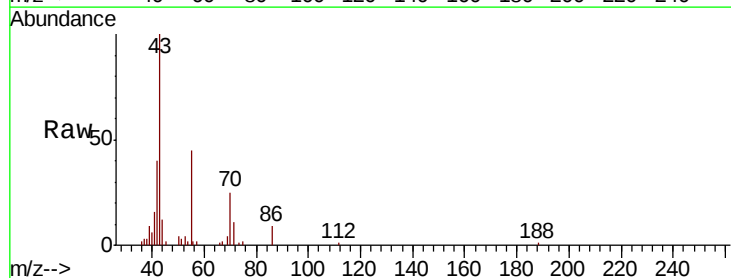


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

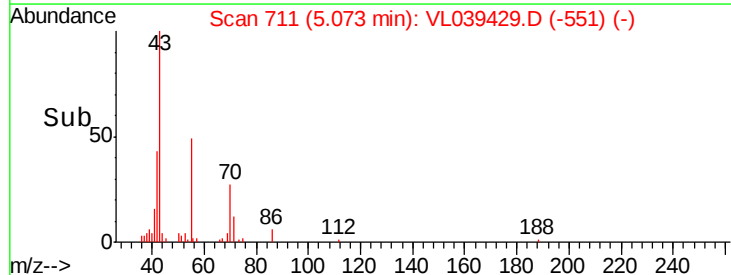
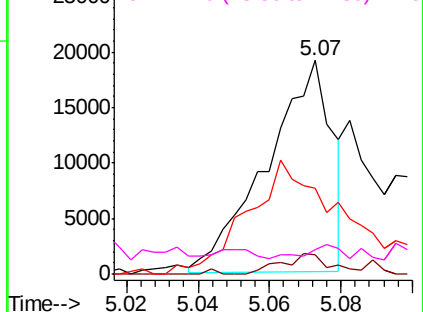


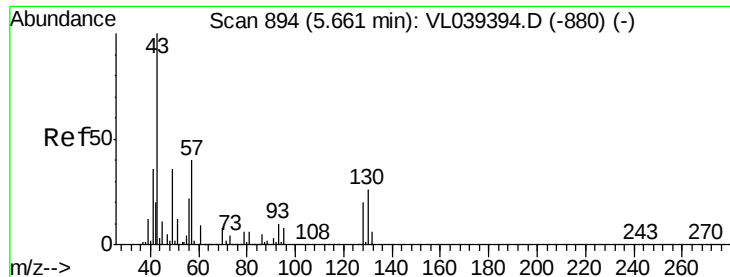
#23
Vinyl Acetate
Concen: 0.276 ppbv
RT: 5.07 min Scan# 711
Delta R.T. 0.02 min
Lab File: VL039429.D
Acq: 5 Jul 2022 21:37

Tgt Ion:	43	Resp:	24292
Ion	Ratio	Lower	Upper
43	100		
86	9.2	5.0	7.6#
42	38.3	7.7	11.5#
44	2.0	4.6	7.0#



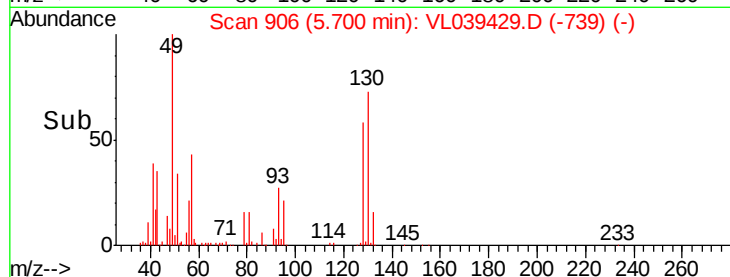
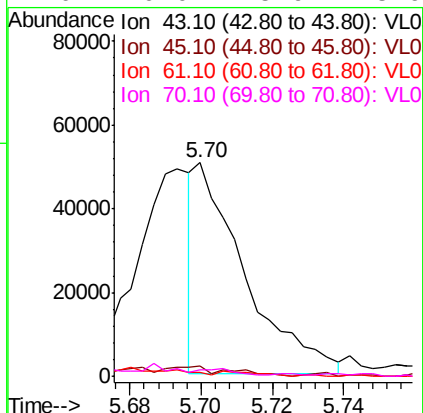
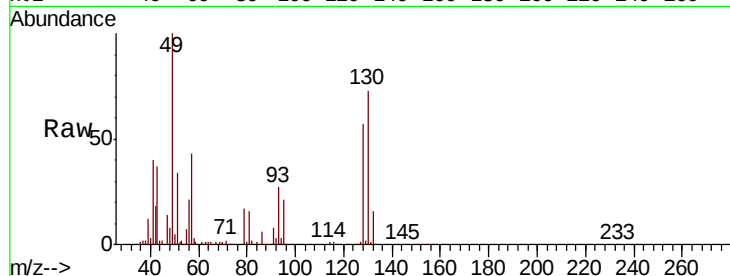
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





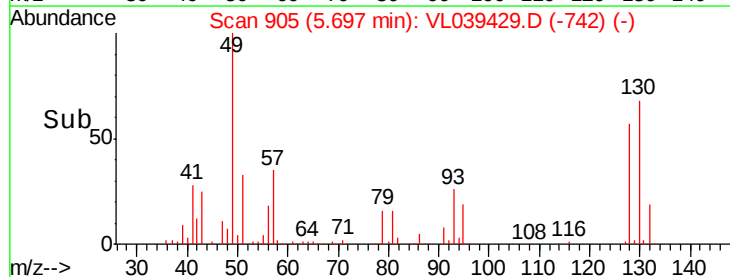
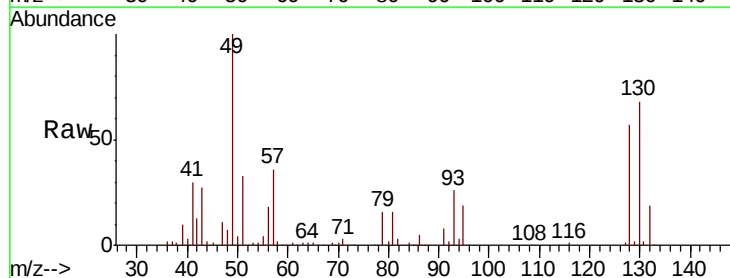
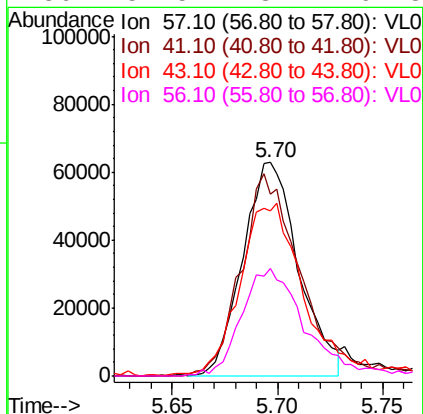
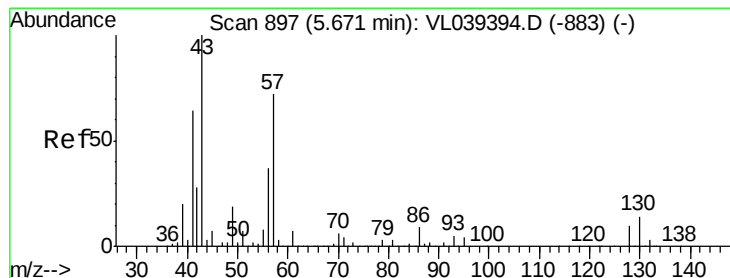
#25
Ethyl Acetate
Concen: 0.179 ppbv
RT: 5.70 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 21:37

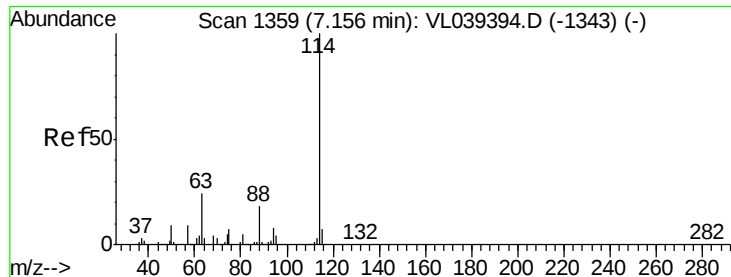
Tot Ion:	43	Resp:	48258
Ion	Ratio	Lower	Upper
43	100		
45	13.2	8.2	12.4#
61	0.0	8.3	12.5#
70	0.0	5.9	8.9#



#26
Hexane
Concen: 1.063 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL039429.D
Acq: 5 Jul 2022 21:37

Tgt Ion:	57	Resp:	115729
Ion	Ratio	Lower	Upper
57	100		
41	104.4	76.9	115.3
43	96.5	191.0	286.6#
56	57.5	43.2	64.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 5 Jul 2022 21:37

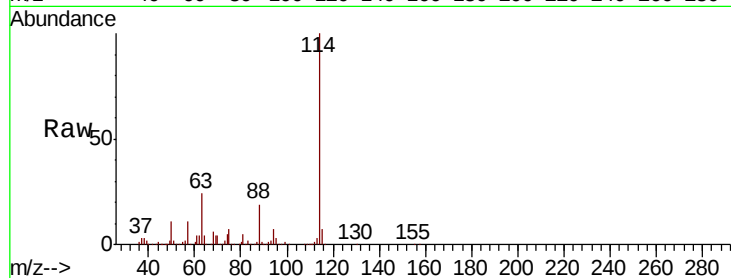
Tot Ion:114 Resp: 3055135

Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.4

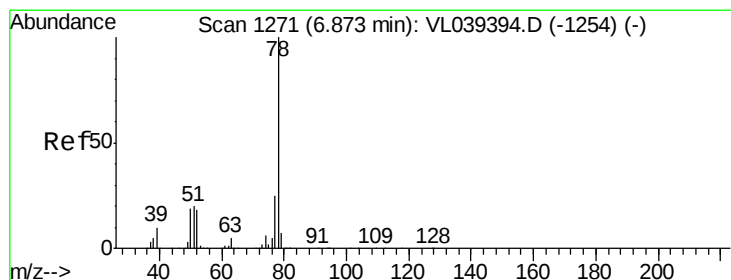
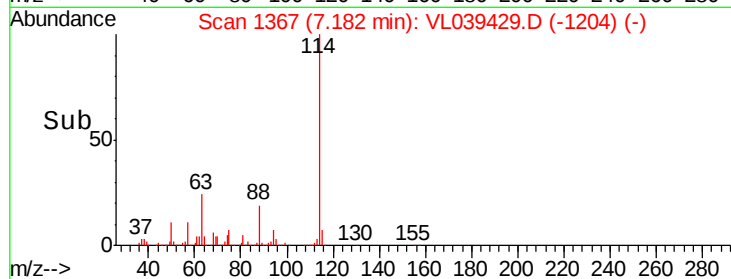
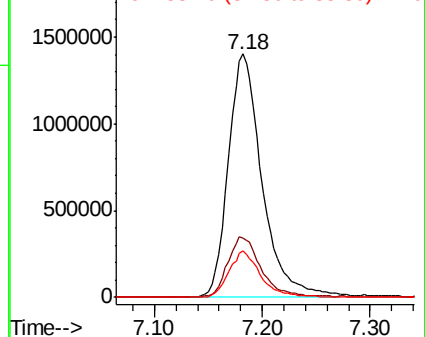
88 18.3 14.5 21.7



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



#36

Benzene

Concen: 0.069 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.03 min

Lab File: VL039429.D

Acq: 5 Jul 2022 21:37

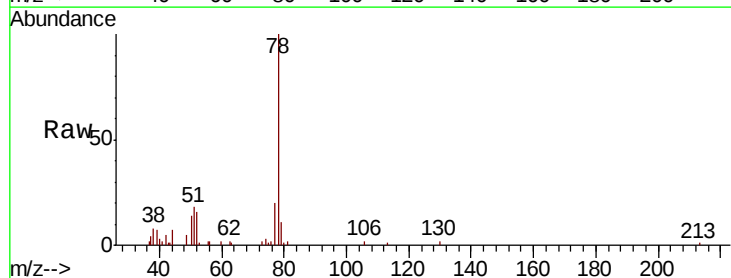
Tgt Ion: 78 Resp: 16256

Ion Ratio Lower Upper

78 100

77 14.9 20.3 30.5#

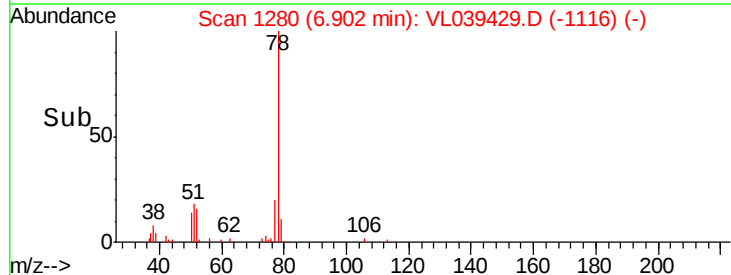
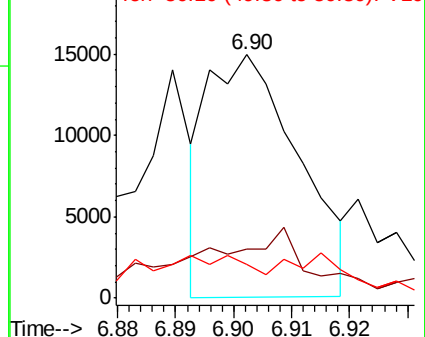
50 3.0 15.5 23.3#

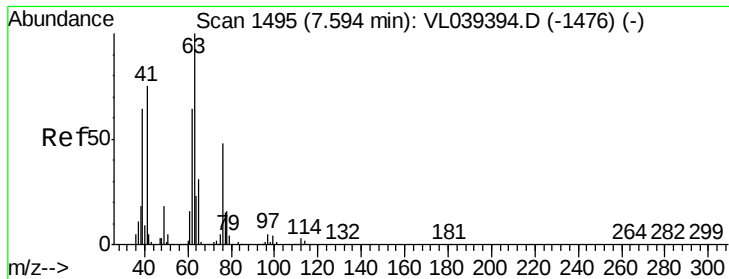


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

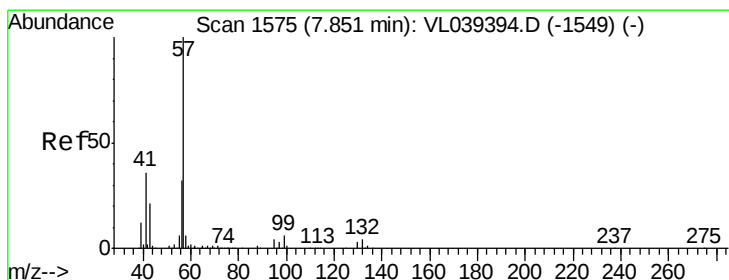
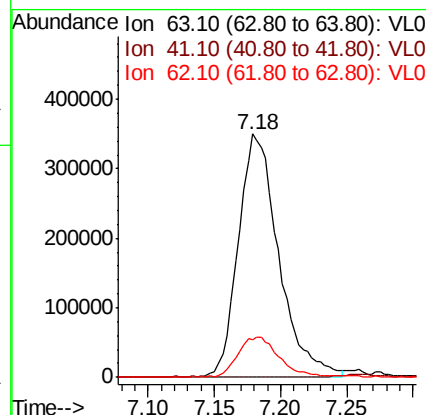
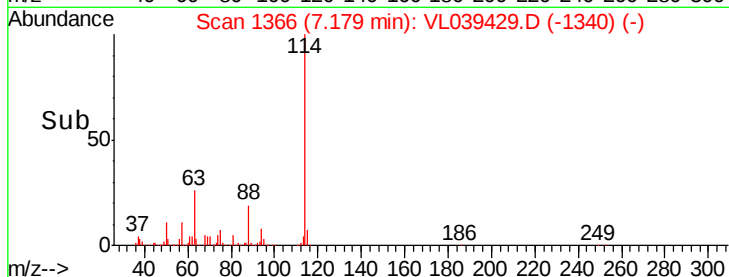
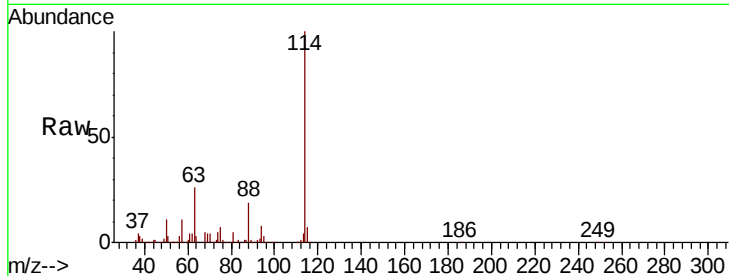
Ion 50.10 (49.80 to 50.80): VL0





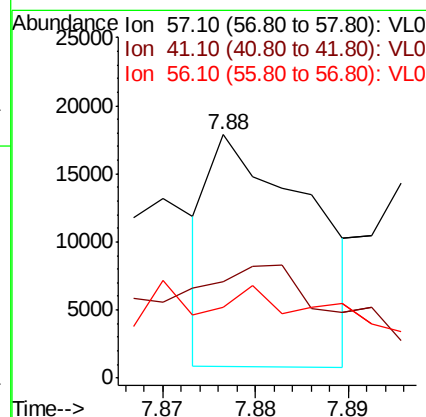
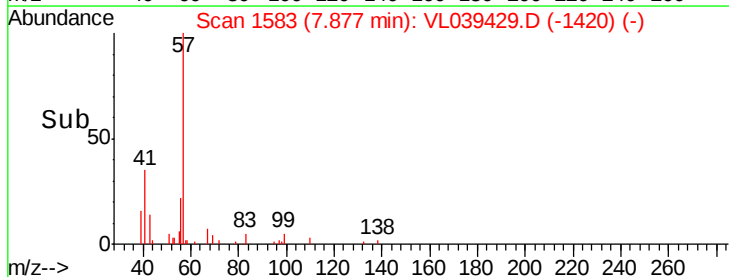
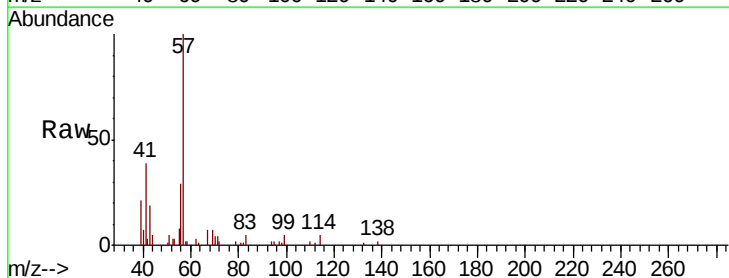
#39
 1,2-Dichloropropane
 Concen: 8.435 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 21:37

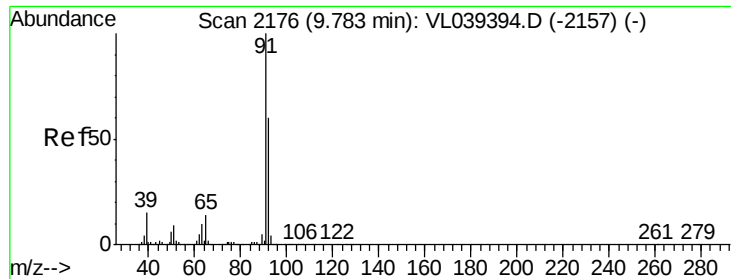
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	15.2	51.4	77.0#



#44
 2,2,4-Trimethylpentane
 Concen: 0.032 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.03 min
 Lab File: VL039429.D
 Acq: 5 Jul 2022 21:37

Tgt Ion	Ratio	Lower	Upper
57	100		
41	165.7	27.4	41.2#
56	0.0	24.5	36.7#





#53

Toluene

Concen: 0.293 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

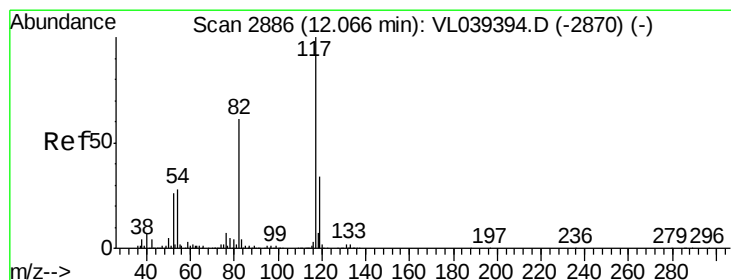
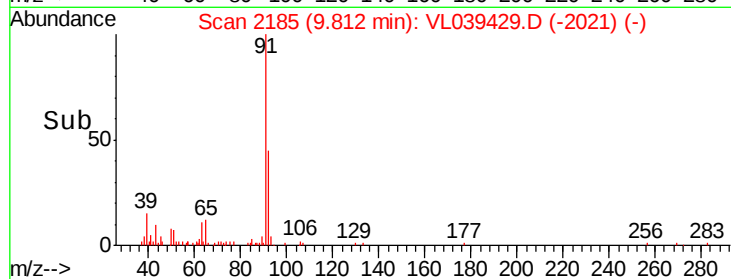
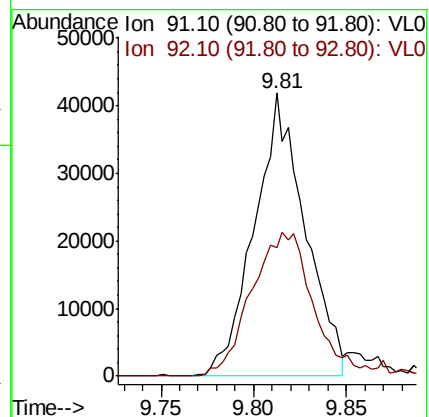
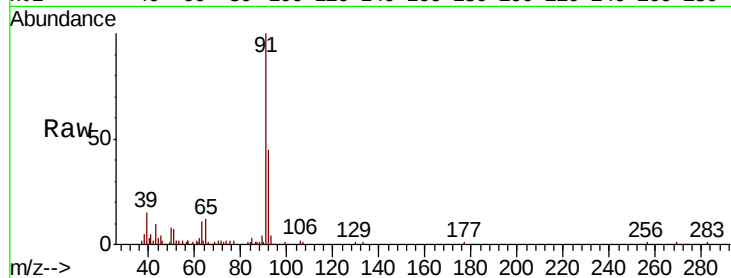
Acq: 5 Jul 2022 21:37

Tot Ion: 91 Resp: 79881

Ion Ratio Lower Upper

91 100

92 63.6 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.03 min

Lab File: VL039429.D

Acq: 5 Jul 2022 21:37

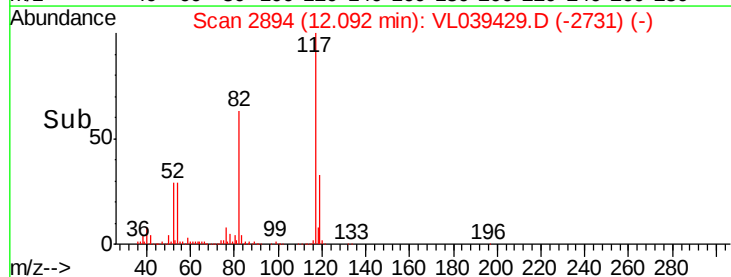
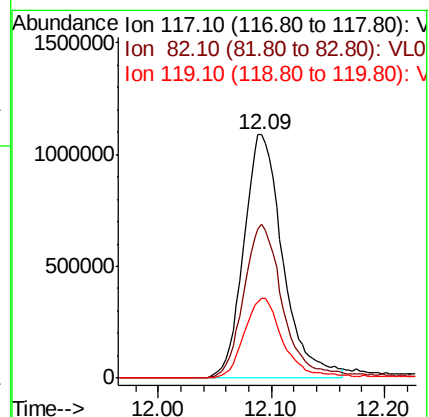
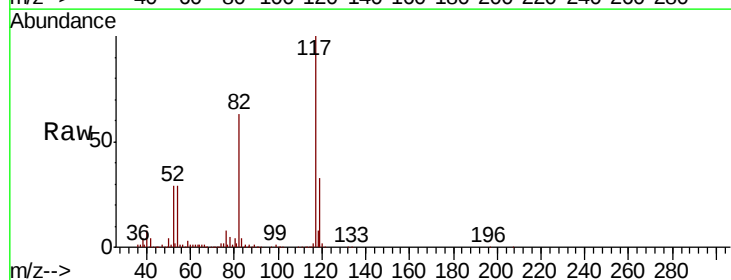
Tgt Ion: 117 Resp: 2617169

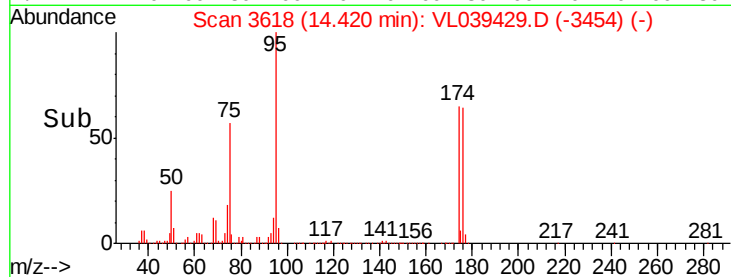
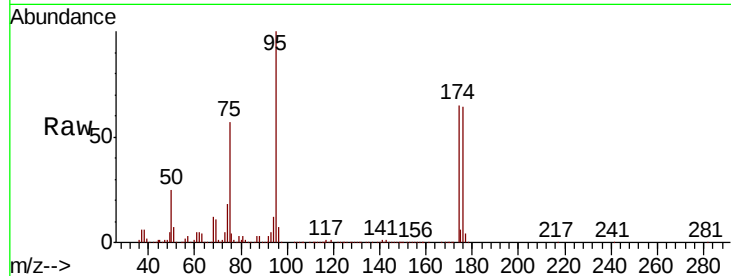
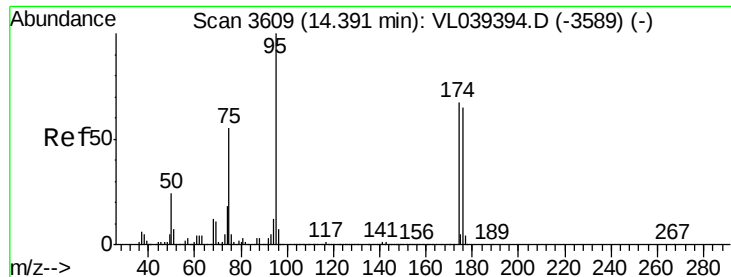
Ion Ratio Lower Upper

117 100

82 65.4 50.8 76.2

119 33.8 24.1 36.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.799 ppbv

RT: 14.42

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 5 Jul 2022 21:37

Tot Ion: 95 Resp: 1902445

Ion Ratio Lower Upper

95 100

174 73.7 55.9 83.9

175 5.1 4.2 6.4

