

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070522\
 Data File : VL039423.D
 Acq On : 5 Jul 2022 17:26
 Operator : SY/AP
 Sample : N3560-01 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Jul 06 02:35:55 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1332479	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3696125	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3257743	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2440340	10.10	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

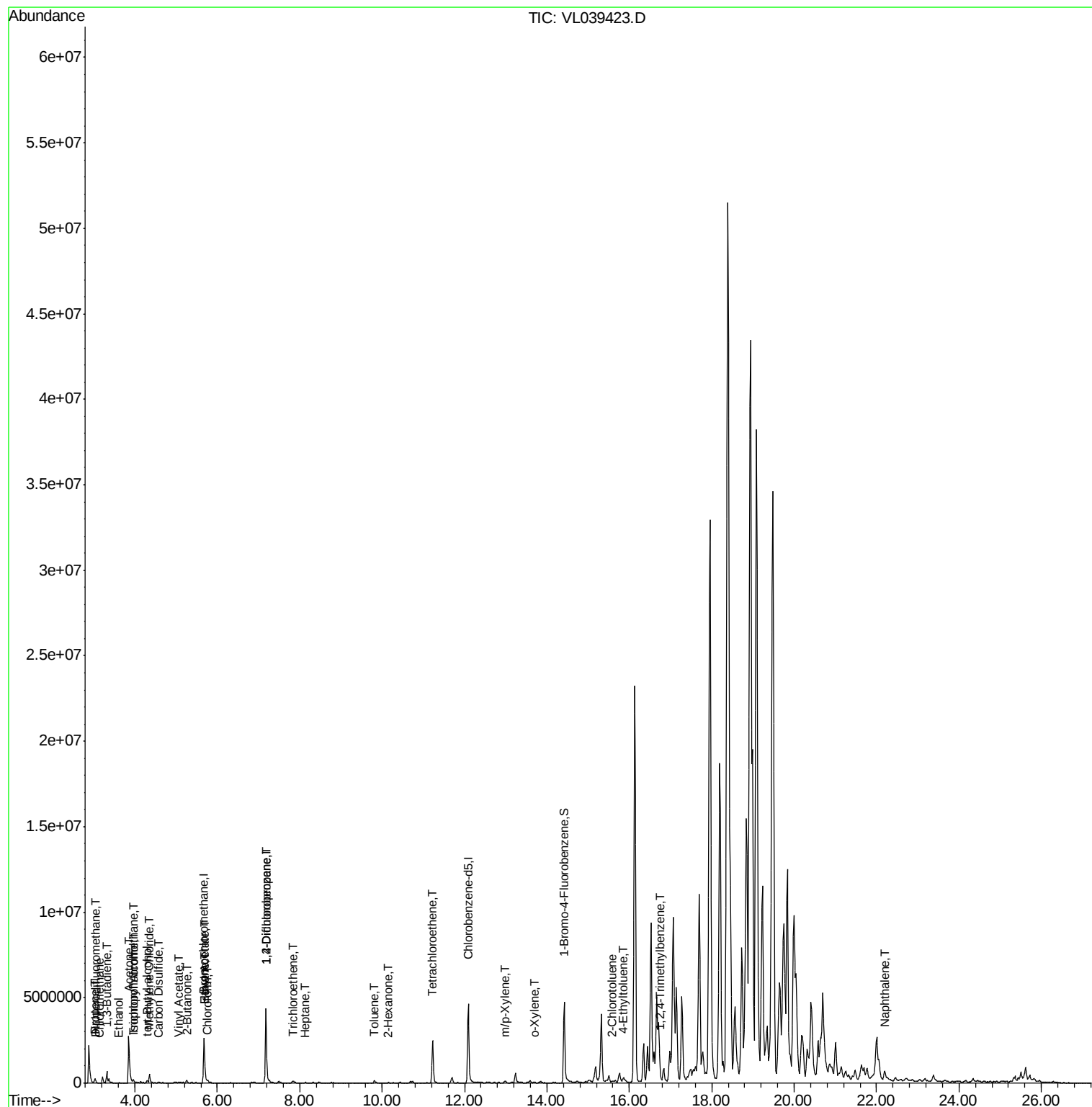
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	16547	0.086 ppbv	95
4) Chloromethane	3.15	50	4333	0.047 ppbv	93
9) Propene	3.02	41	95730	1.254 ppbv	93
10) Heptane	8.13	43	11523	0.064 ppbv #	41
11) Trichlorofluoromethane	3.95	101	88164	0.412 ppbv	95
13) Ethanol	3.61	45	13812	3.118 ppbv #	23
15) Acetone	3.85	43	3664995	23.249 ppbv	97
16) 1,3-Butadiene	3.32	39	197156	2.410 ppbv #	18
17) tert-Butyl alcohol	4.30	59	123903	0.926 ppbv #	93
19) Isopropyl Alcohol	3.97	45	11866	0.141 ppbv #	88
20) Methylene Chloride	4.35	84	204940	3.262 ppbv	97
23) Vinyl Acetate	5.07	43	16702	0.159 ppbv #	38
25) Ethyl Acetate	5.69	43	140983	0.436 ppbv #	78
26) Hexane	5.69	57	198102	1.520 ppbv #	38
27) Carbon Disulfide	4.56	76	37098	0.236 ppbv #	70
29) Chloroform	5.75	83	27081	0.120 ppbv	90
34) 2-Butanone	5.26	43	241406	1.297 ppbv	97
38) Trichloroethene	7.83	130	13813	0.089 ppbv	90
39) 1,2-Dichloropropane	7.18	63	907967	8.496 ppbv #	24
51) 2-Hexanone	10.15	43	12388	0.058 ppbv #	5
52) Tetrachloroethene	11.23	164	670172	5.820 ppbv	97
53) Toluene	9.81	91	124455	0.377 ppbv	99
59) m/p-Xylene	13.00	91	31092	0.084 ppbv #	32
60) o-Xylene	13.69	91	22150	0.063 ppbv #	57
71) 2-Chlorotoluene	15.57	91	26664	0.070 ppbv #	44
72) 4-Ethyltoluene	15.84	105	16380	0.040 ppbv #	52
74) 1,2,4-Trimethylbenzene	16.76	105	38078	0.091 ppbv #	72
79) Naphthalene	22.21	128	11233	0.039 ppbv #	62

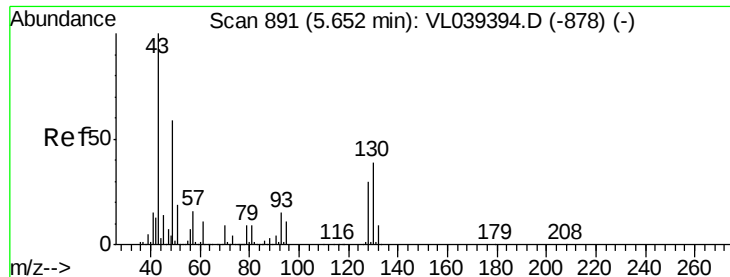
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1

Acq: 5 Jul 2022 17:28

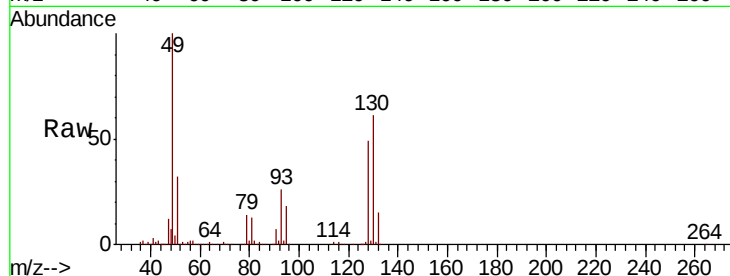
Tot Ion: 49 Resp: 1332479

Ion Ratio Lower Upper

49 100

128 53.3 26.7 80.0

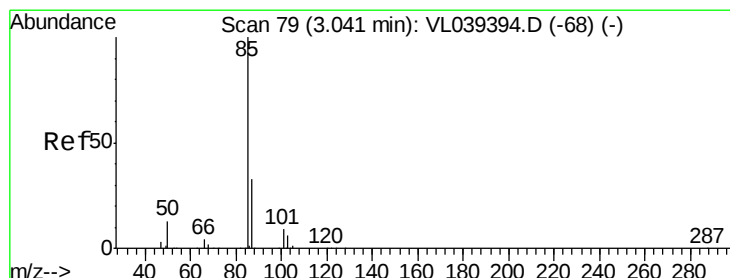
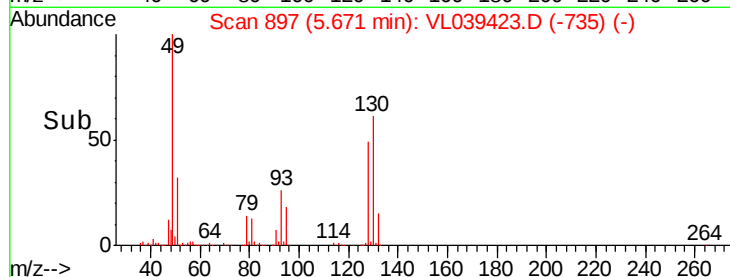
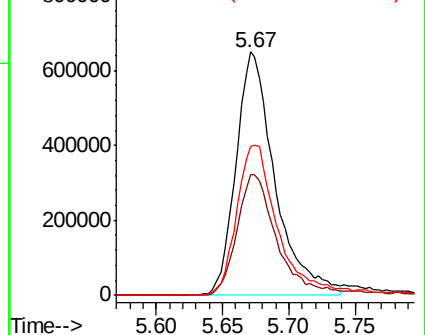
130 67.3 34.3 102.8



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



#2

Dichlorodifluoromethane

Concen: 0.086 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL039423.D

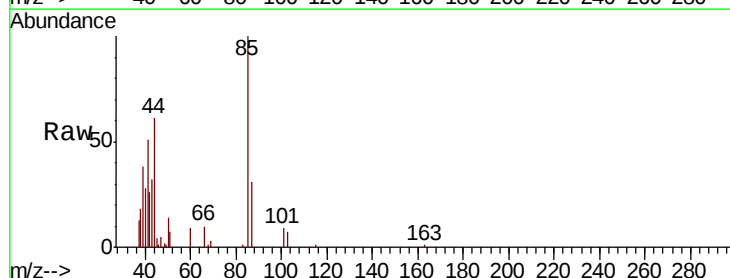
Acq: 5 Jul 2022 17:26

Tgt Ion: 85 Resp: 16547

Ion Ratio Lower Upper

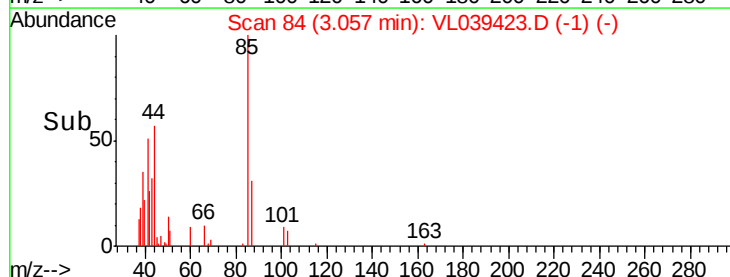
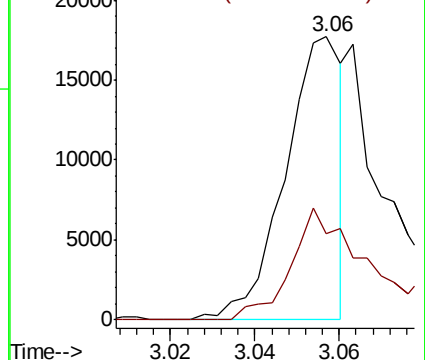
85 100

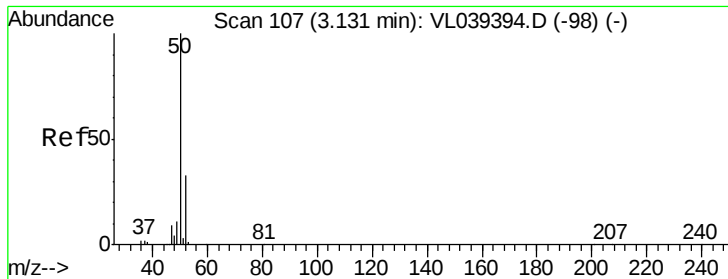
87 30.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.047 ppbv

RT: 3.15 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

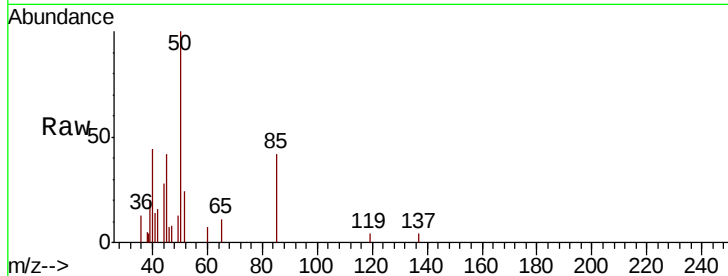
Acq: 5 Jul 2022 17:26

Tot Ion: 50 Resp: 4333

Ion Ratio Lower Upper

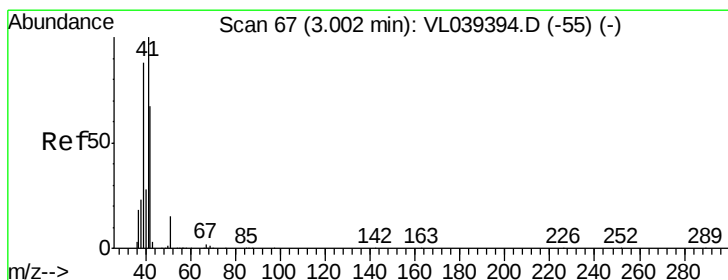
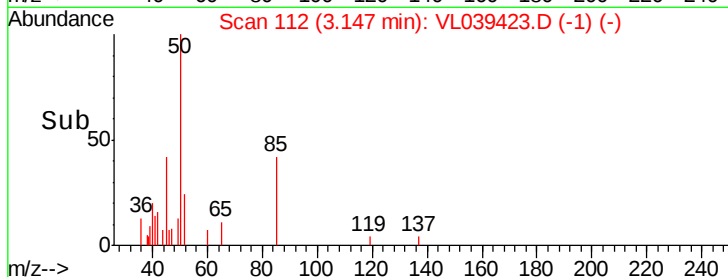
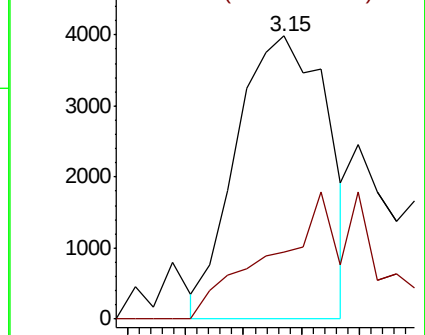
50 100

52 29.3 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 1.254 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL039423.D

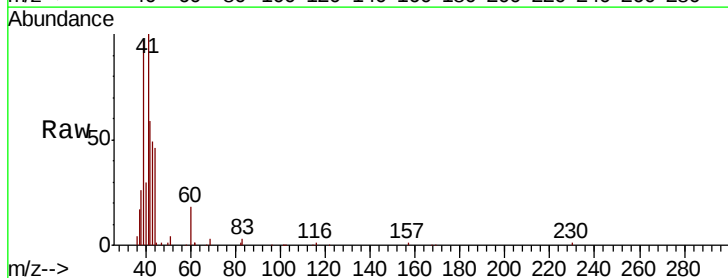
Acq: 5 Jul 2022 17:26

Tgt Ion: 41 Resp: 95730

Ion Ratio Lower Upper

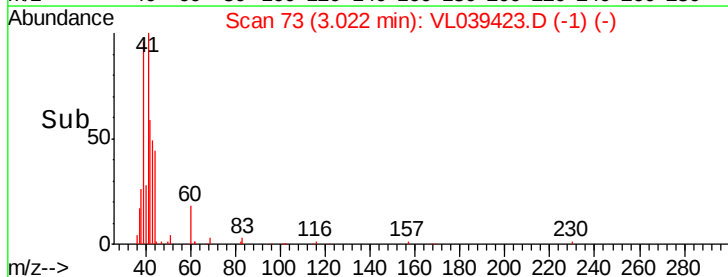
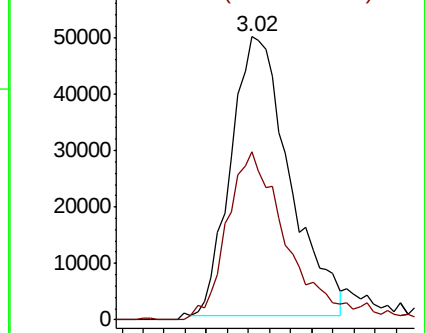
41 100

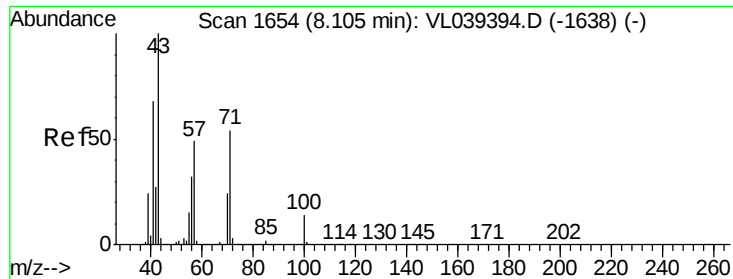
42 63.0 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.064 ppbv

RT: 8.13 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

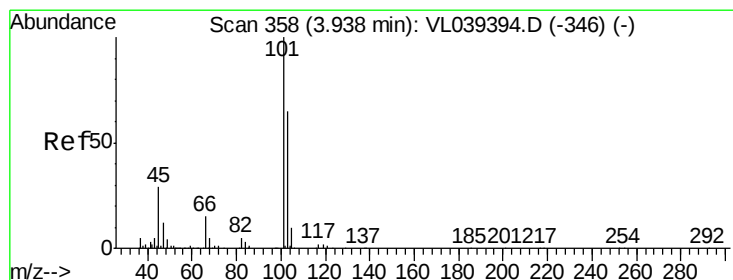
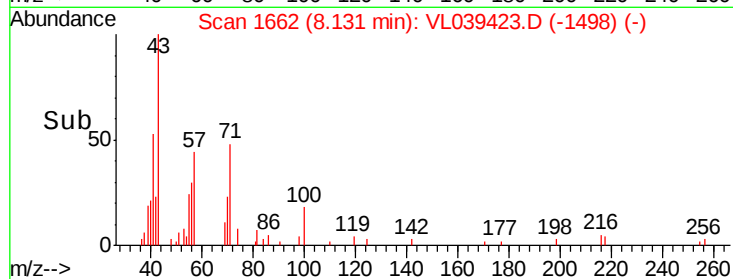
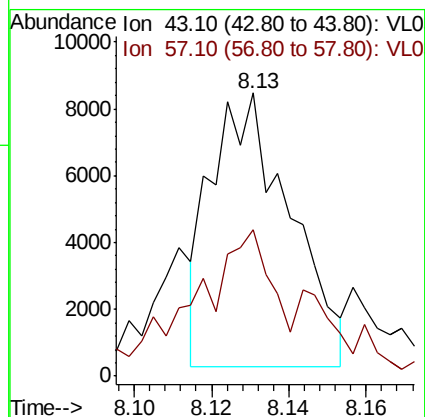
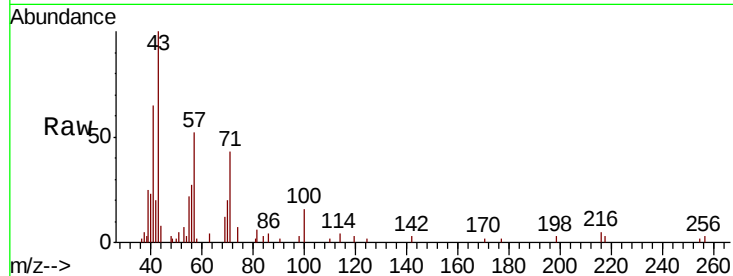
Acq: 5 Jul 2022 17:28 SV1

Tot Ion: 43 Resp: 11523

Ion Ratio Lower Upper

43 100

57 91.7 40.5 60.7#



#11

Trichlorofluoromethane

Concen: 0.412 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL039423.D

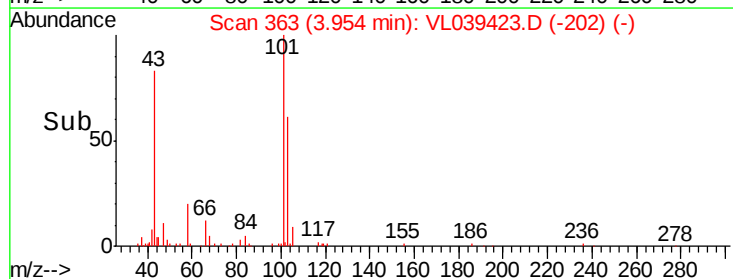
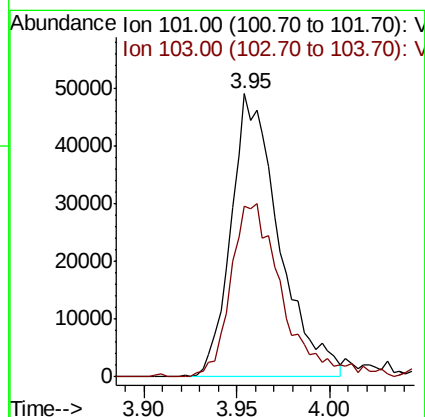
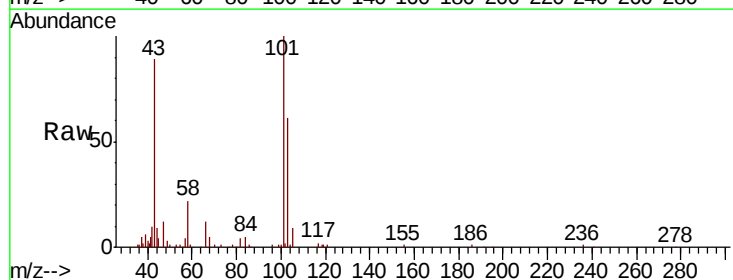
Acq: 5 Jul 2022 17:26

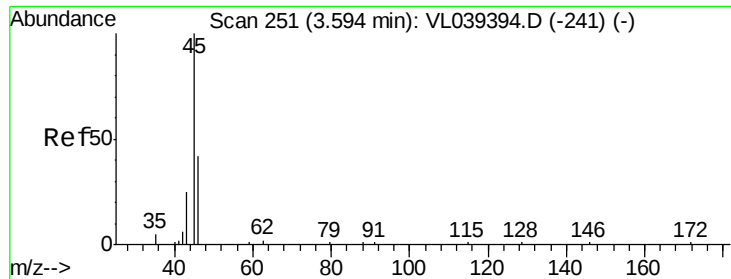
Tgt Ion: 101 Resp: 88164

Ion Ratio Lower Upper

101 100

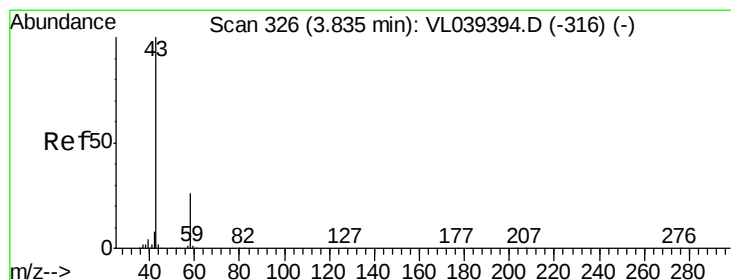
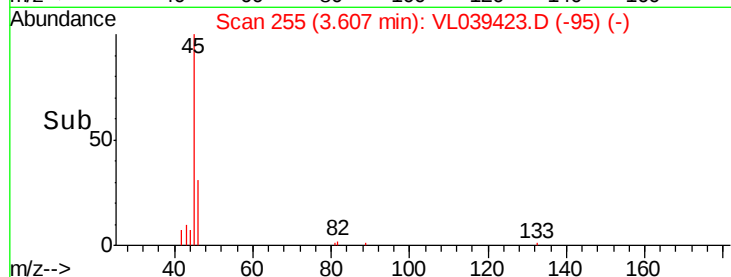
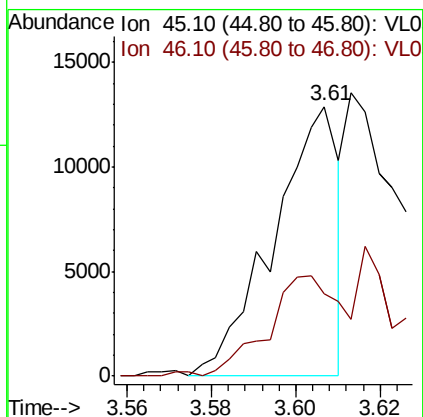
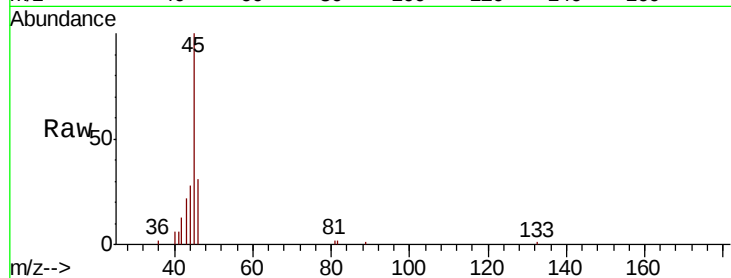
103 60.5 51.8 77.8





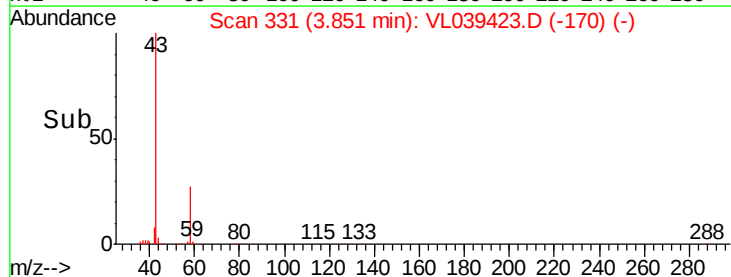
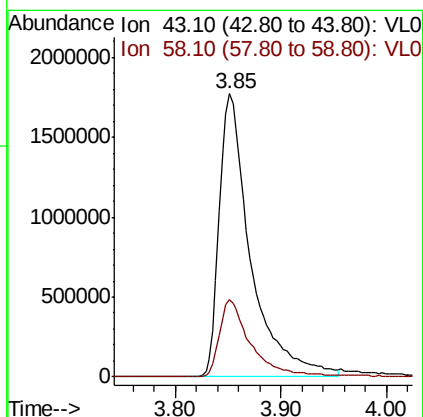
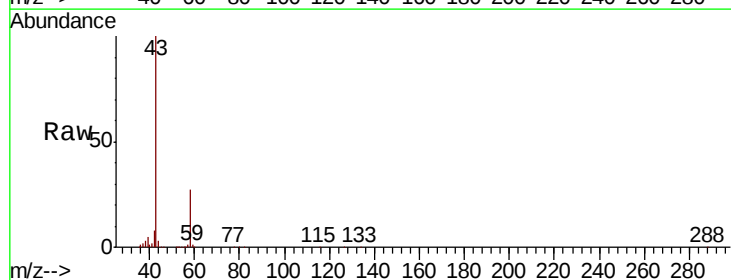
#13
Ethanol
Concen: 3.118 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 5 Jul 2022 17:28

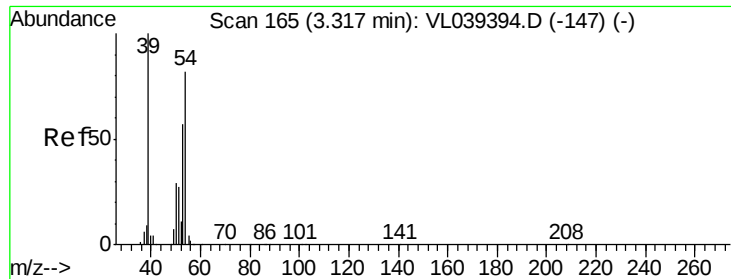
Tot Ion: 45 Resp: 13812
Ion Ratio Lower Upper
45 100
46 0.0 22.8 91.2#



#15
Acetone
Concen: 23.249 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.02 min
Lab File: VL039423.D
Acq: 5 Jul 2022 17:26

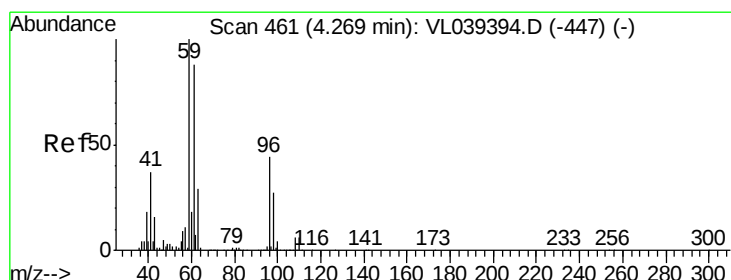
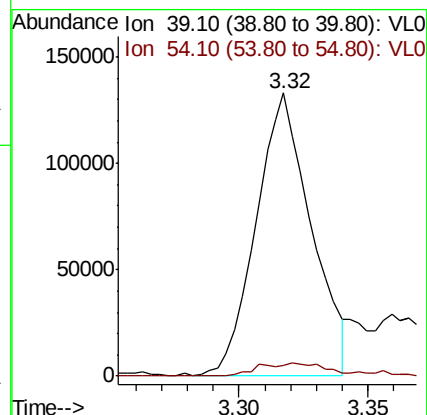
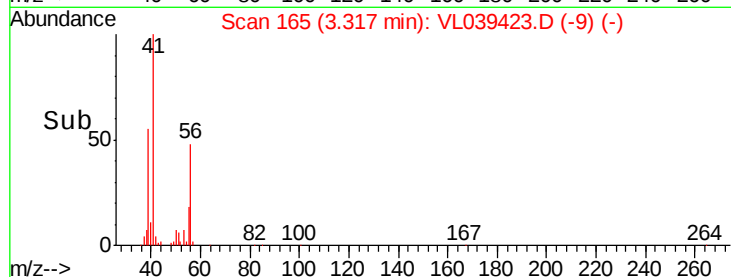
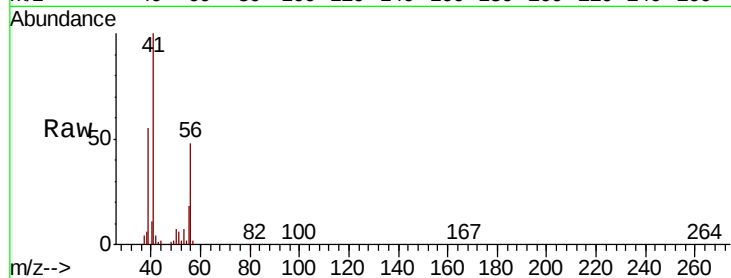
Tgt Ion: 43 Resp: 3664995
Ion Ratio Lower Upper
43 100
58 28.0 21.0 31.6





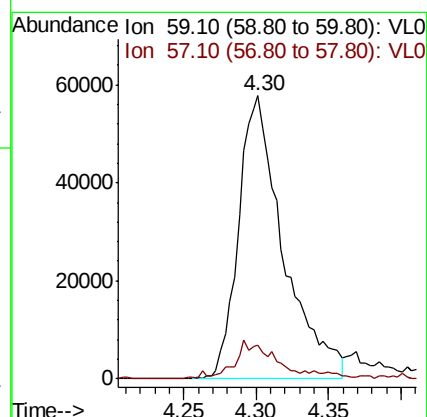
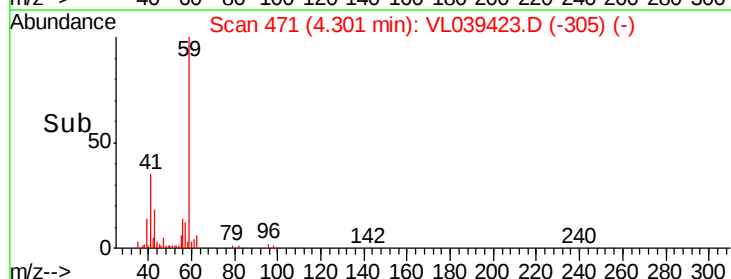
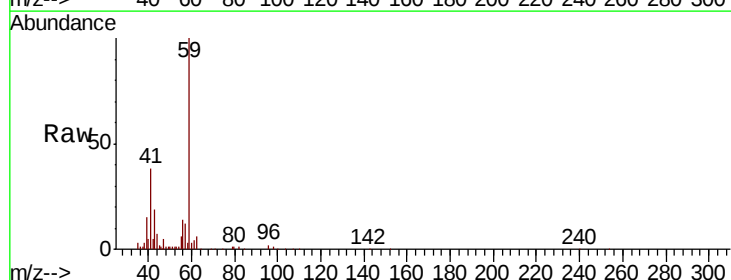
#16
 1,3-Butadiene
 Concen: 2.410 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1
 Acq: 5 Jul 2022 17:20

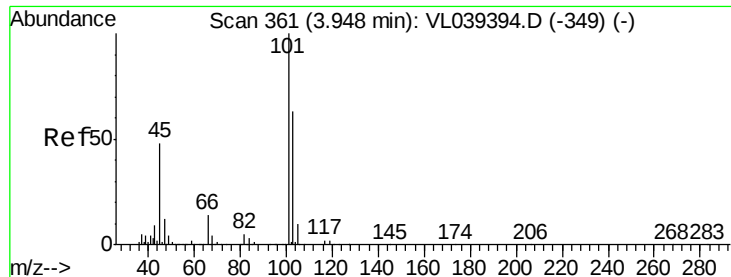
Tot Ion: 39 Resp: 197156
 Ion Ratio Lower Upper
 39 100
 54 7.2 63.7 95.5#



#17
 tert-Butyl alcohol
 Concen: 0.926 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. 0.03 min
 Lab File: VL039423.D
 Acq: 5 Jul 2022 17:26

Tgt Ion: 59 Resp: 123903
 Ion Ratio Lower Upper
 59 100
 57 13.5 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.141 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

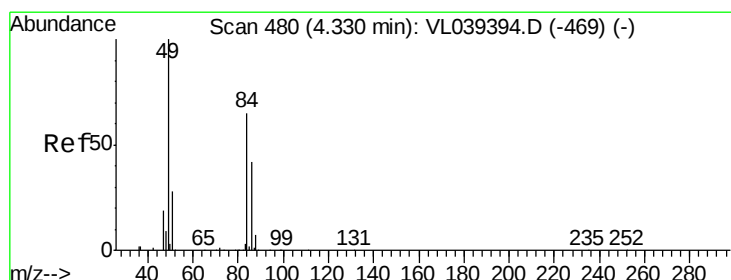
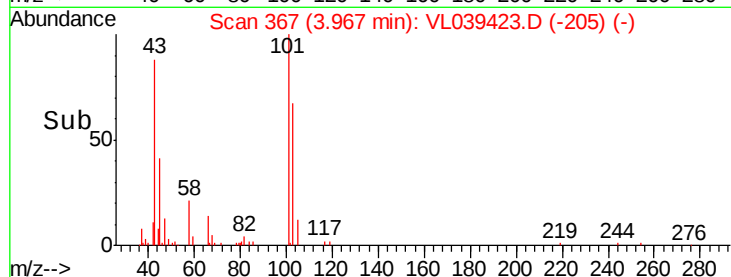
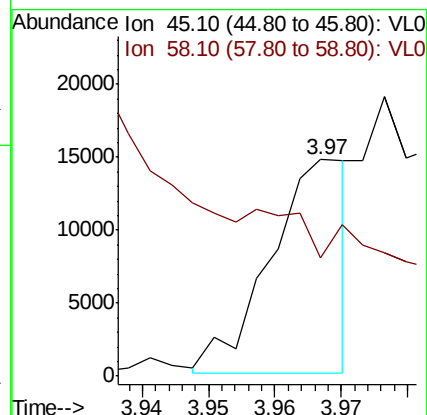
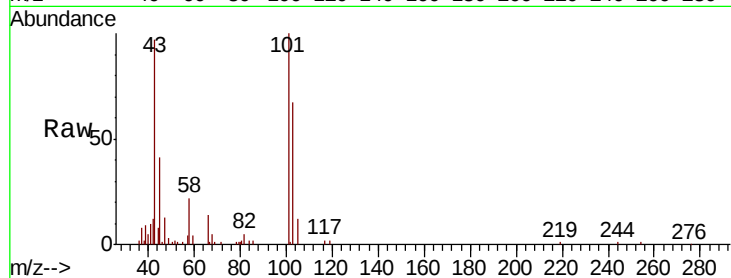
Acq: 5 Jul 2022 17:28 SV1

Tot Ion: 45 Resp: 11866

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#



#20

Methylene Chloride

Concen: 3.262 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL039423.D

Acq: 5 Jul 2022 17:26

Tgt Ion: 84 Resp: 204940

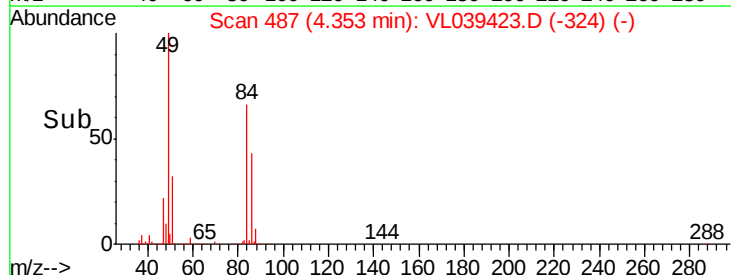
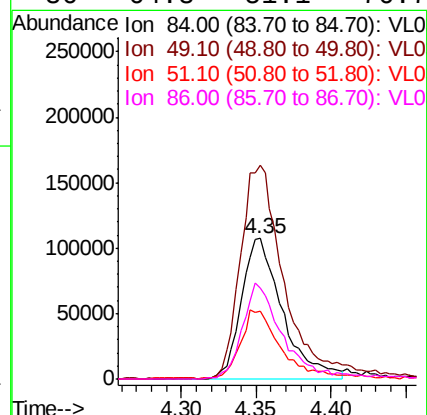
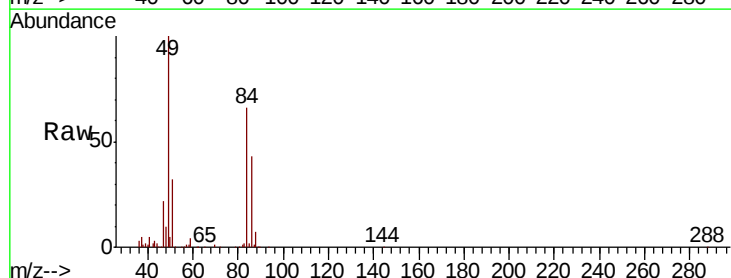
Ion Ratio Lower Upper

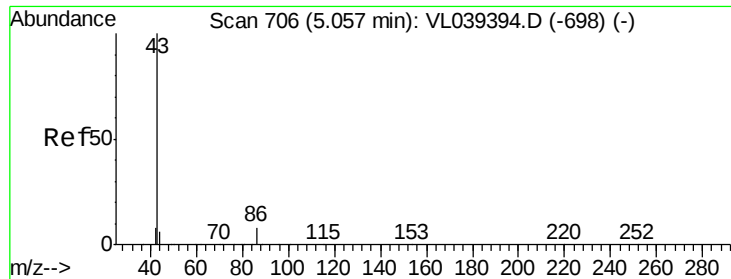
84 100

49 150.4 123.1 184.7

51 48.0 34.4 51.6

86 64.8 51.1 76.7





#23

Vinyl Acetate

Concen: 0.159 ppbv

RT: 5.07 Instrument:

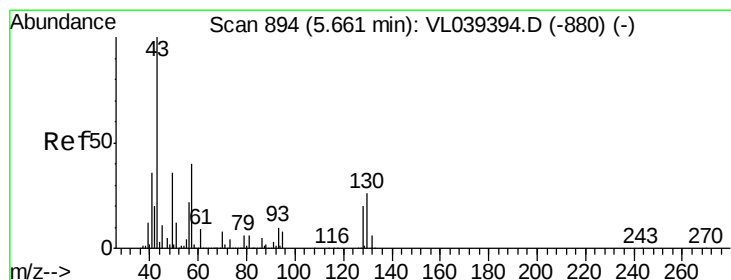
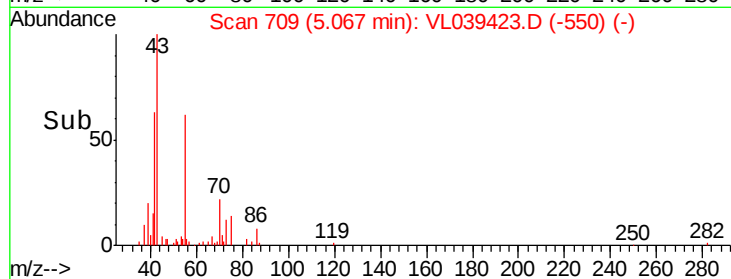
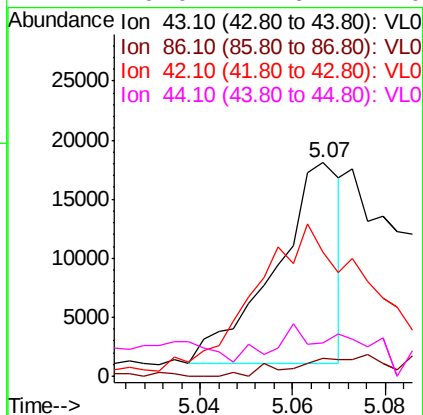
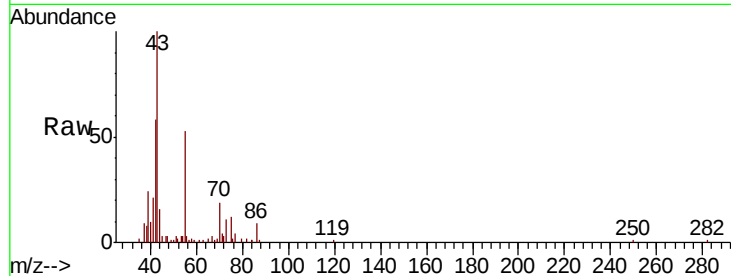
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 17:20 SV1

Tot Ion: 43 Resp: 16702

Ion	Ratio	Lower	Upper
43	100		
86	9.1	5.0	7.6#
42	55.2	7.7	11.5#
44	0.0	4.6	7.0#



#25

Ethyl Acetate

Concen: 0.436 ppbv

RT: 5.69 min Scan# 904

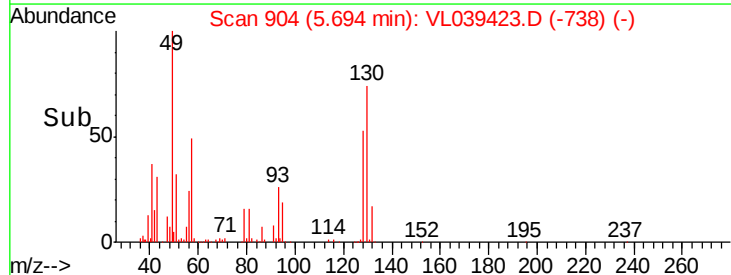
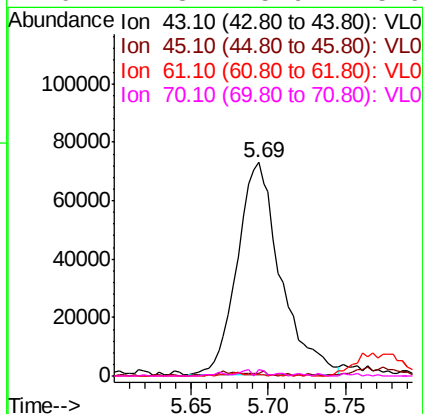
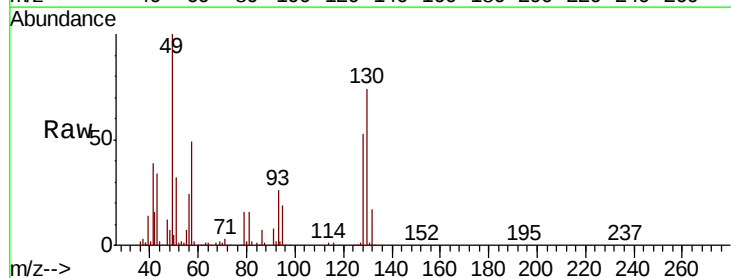
Delta R.T. 0.03 min

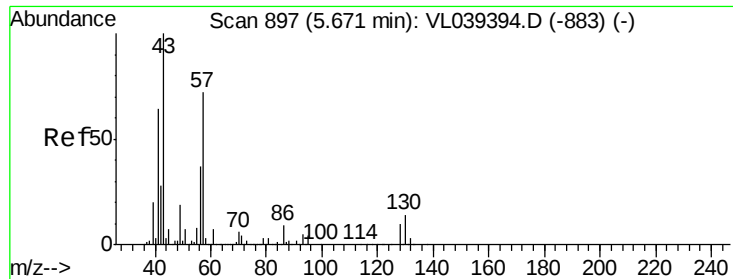
Lab File: VL039423.D

Acq: 5 Jul 2022 17:26

Tgt Ion: 43 Resp: 140983

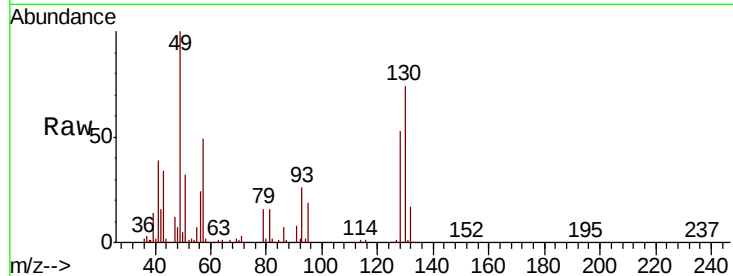
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.2	12.4#
61	1.0	8.3	12.5#
70	1.3	5.9	8.9#





#26
Hexane
Concen: 1.520 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 17:20

Tot Ion	57	Resp	198102
Ion	Ratio	Lower	Upper
57	100		
41	104.0	76.9	115.3
43	75.5	191.0	286.6#
56	57.3	43.2	64.8



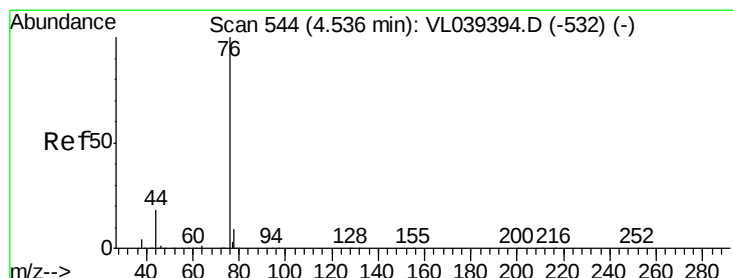
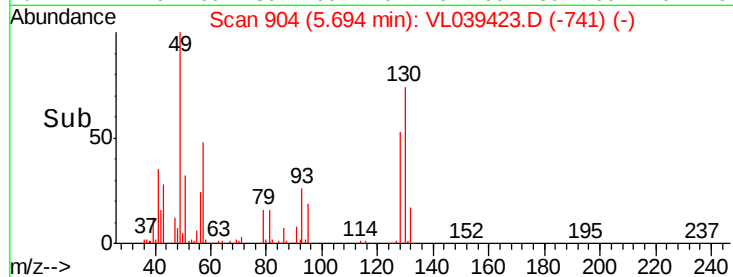
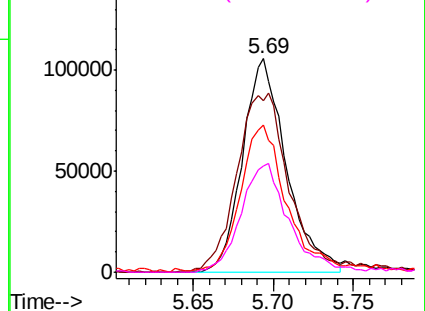
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

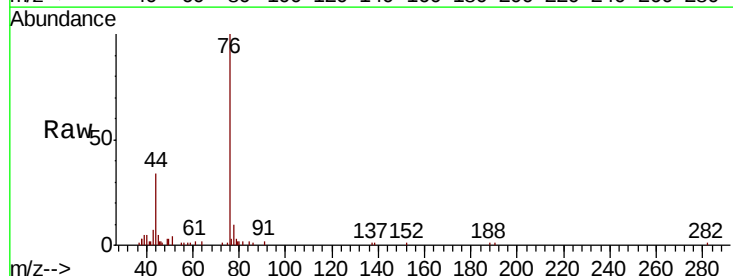
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27
Carbon Disulfide
Concen: 0.236 ppbv
RT: 4.56 min Scan# 551
Delta R.T. 0.02 min
Lab File: VL039423.D
Acq: 5 Jul 2022 17:26

Tgt Ion	76	Resp	37098
Ion	Ratio	Lower	Upper
76	100		
44	32.4	14.6	21.8#
78	0.0	7.8	11.6#

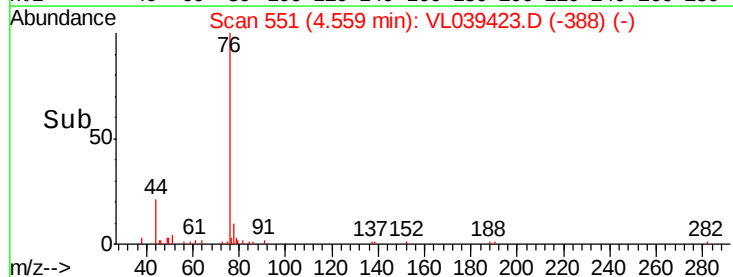
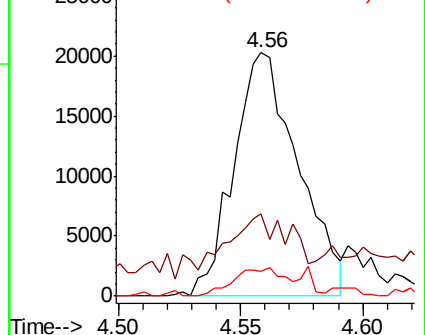


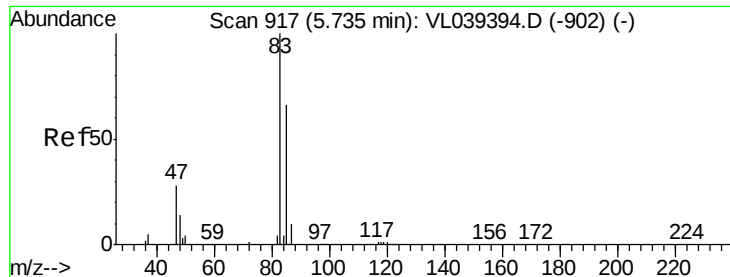
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.120 ppbv

RT: 5.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

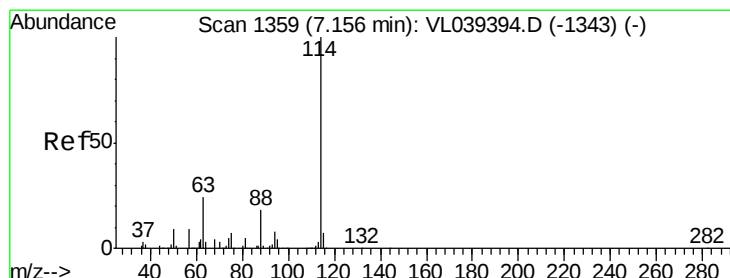
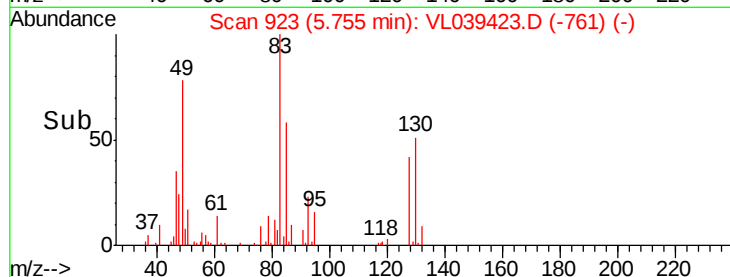
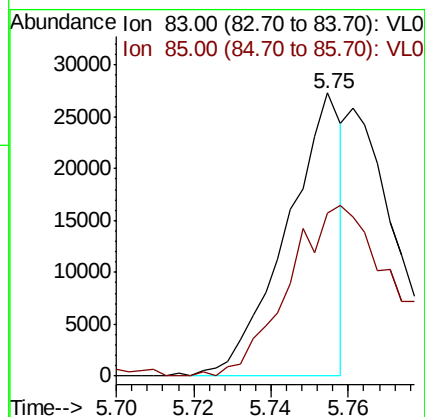
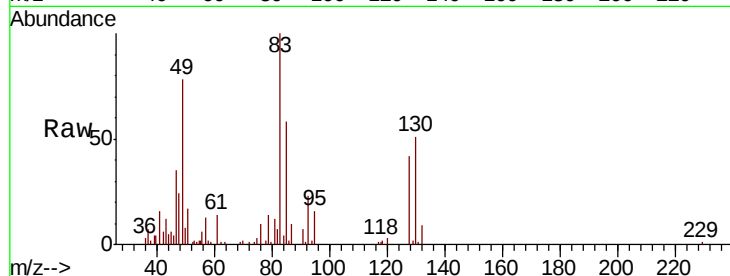
Acq: 5 Jul 2022 17:26 SV1

Tot Ion: 83 Resp: 27081

Ion Ratio Lower Upper

83 100

85 57.7 52.8 79.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.02 min

Lab File: VL039423.D

Acq: 5 Jul 2022 17:26

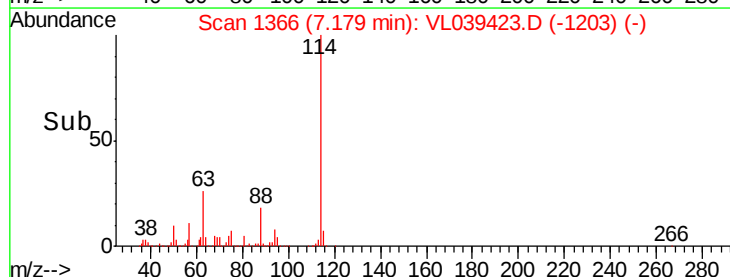
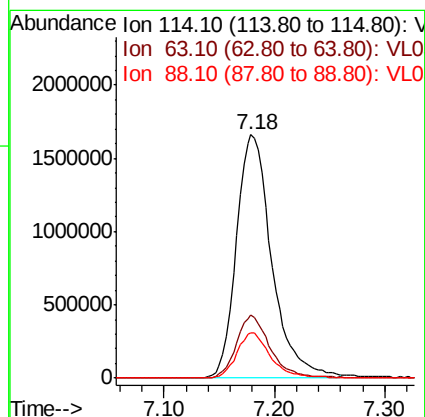
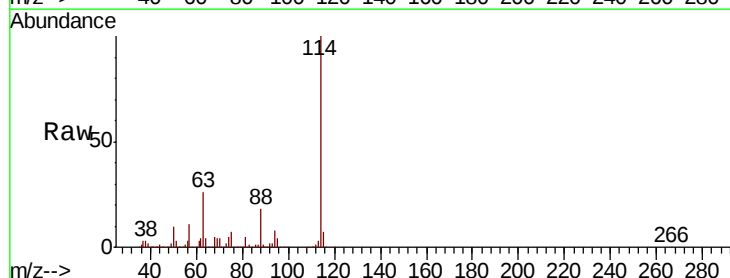
Tgt Ion: 114 Resp: 3696125

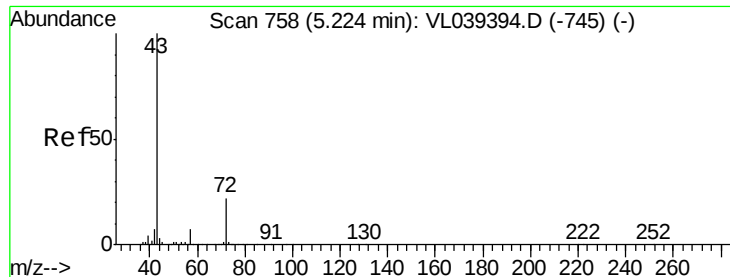
Ion Ratio Lower Upper

114 100

63 25.0 20.2 30.4

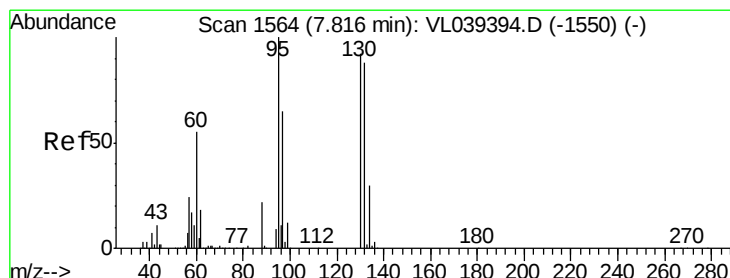
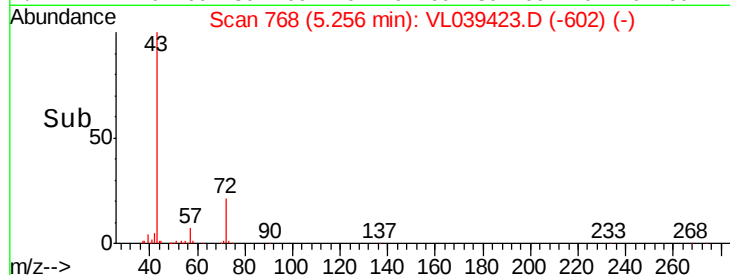
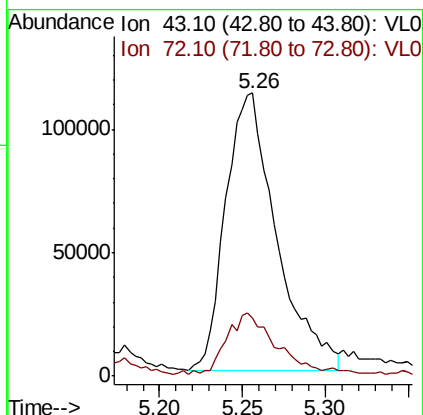
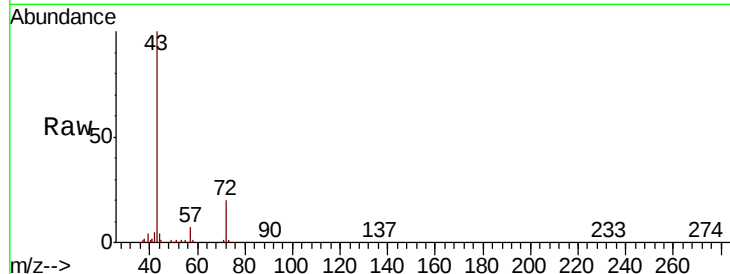
88 18.1 14.5 21.7





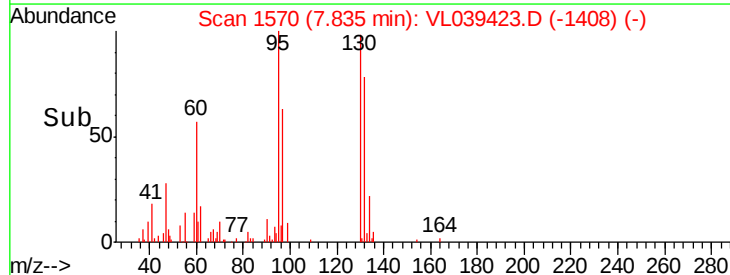
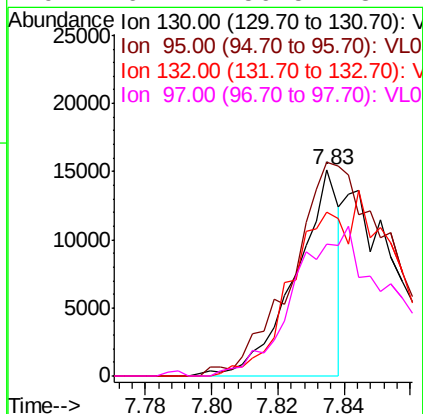
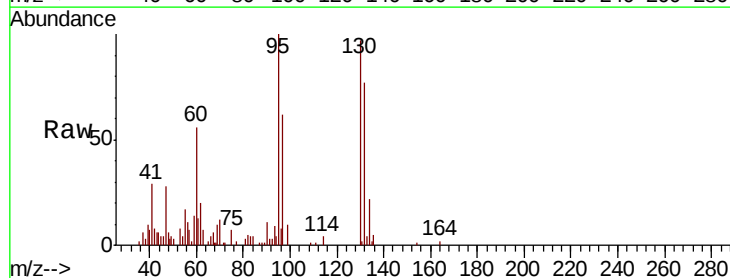
#34
2-Butanone
Concen: 1.297 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 5 Jul 2022 17:28

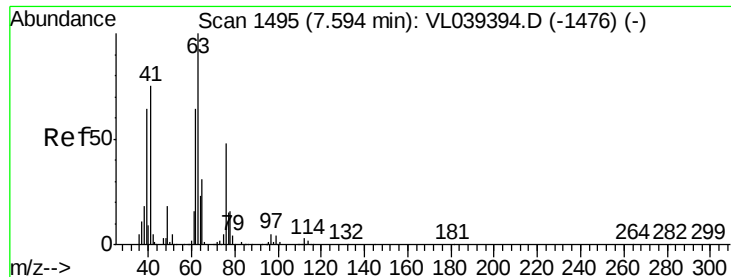
Tot Ion: 43 Resp: 241406
Ion Ratio Lower Upper
43 100
72 24.0 17.9 26.9



#38
Trichloroethene
Concen: 0.089 ppbv
RT: 7.83 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VL039423.D
Acq: 5 Jul 2022 17:26

Tgt Ion:130 Resp: 13813
Ion Ratio Lower Upper
130 100
95 103.4 87.3 130.9
132 79.3 76.7 115.1
97 64.1 56.5 84.7





#39

1,2-Dichloropropane

Concen: 8.496 ppbv

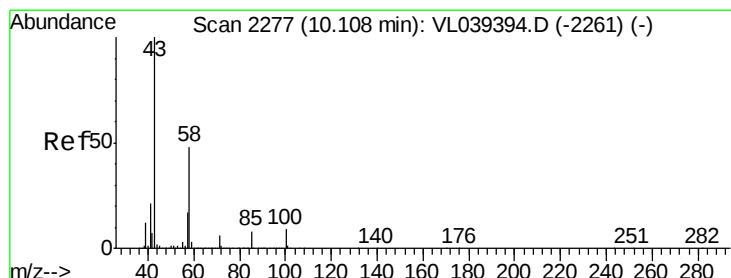
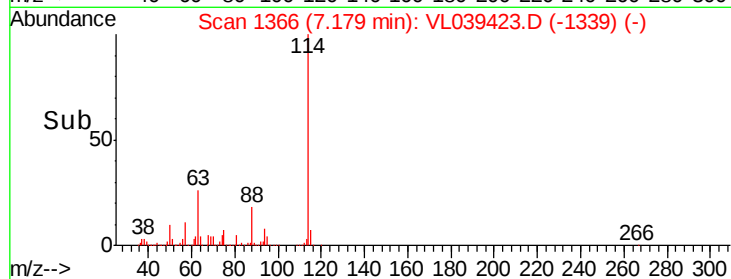
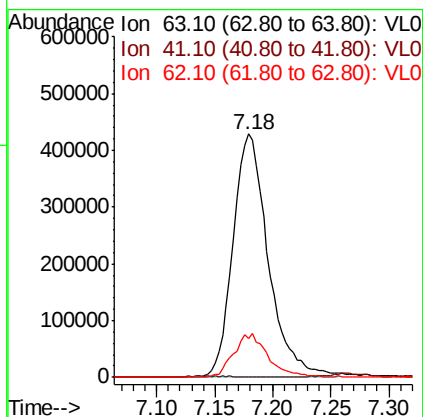
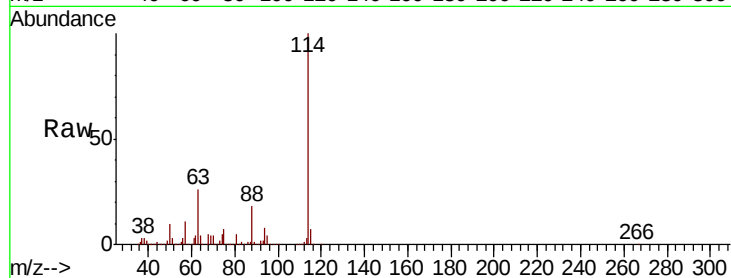
RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 17:20 SV1

Tot Ion:	63	Resp:	907967
Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	15.9	51.4	77.0#



#51

2-Hexanone

Concen: 0.058 ppbv

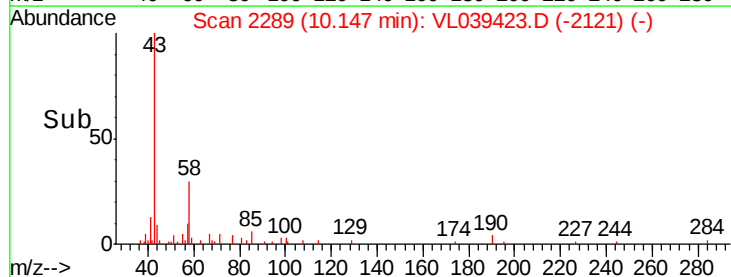
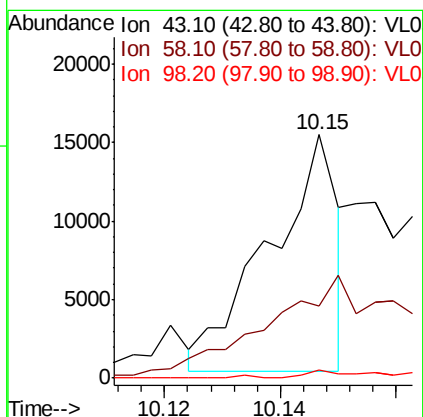
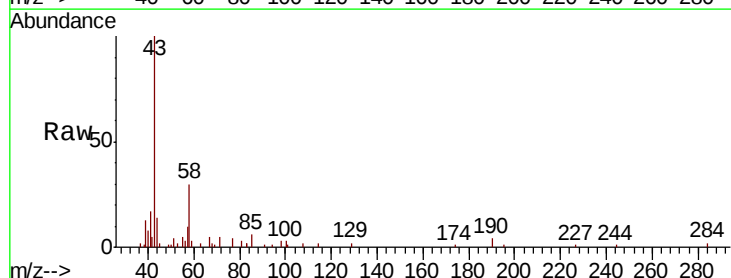
RT: 10.15 min Scan# 2289

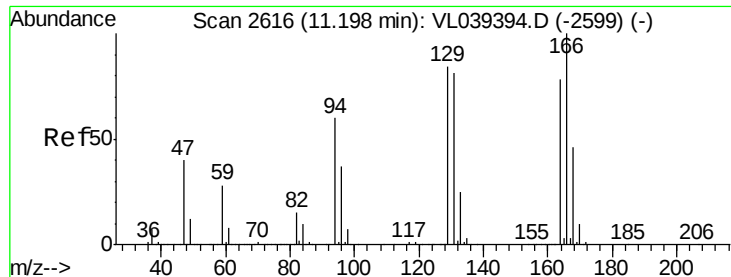
Delta R.T. 0.04 min

Lab File: VL039423.D

Acq: 5 Jul 2022 17:26

Tgt Ion:	43	Resp:	12388
Ion	Ratio	Lower	Upper
43	100		
58	112.5	38.4	57.6#
98	5.7	0.3	0.5#





#52

Tetrachloroethene

Concen: 5.820 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 Jul 2022 17:26

Tot Ion:164 Resp: 670172

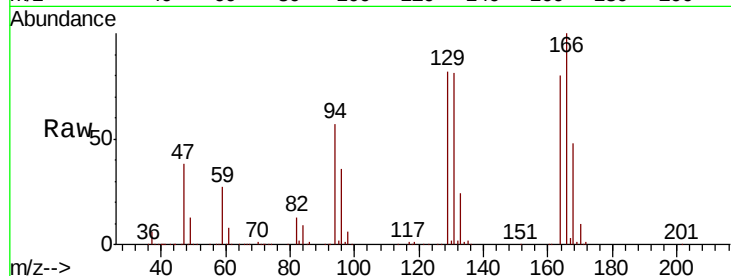
Ion Ratio Lower Upper

164 100

166 125.3 102.2 153.2

129 103.4 85.8 128.8

131 101.8 83.3 124.9

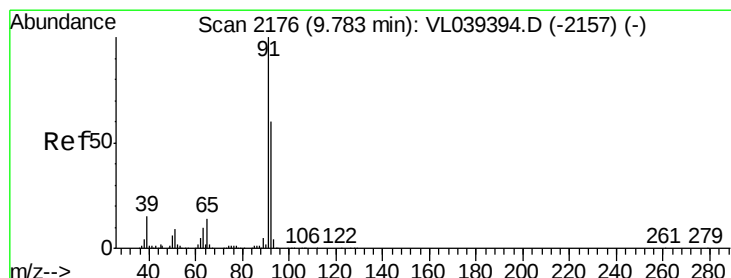
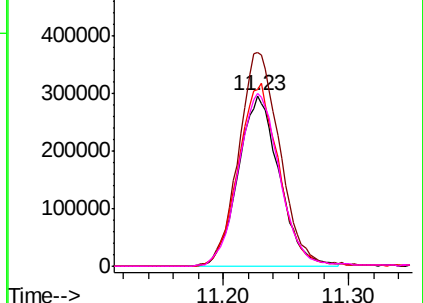
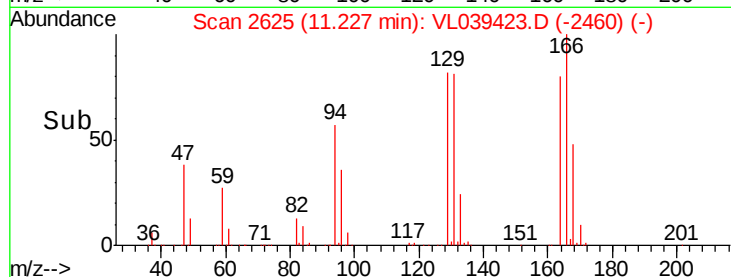


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.377 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.03 min

Lab File: VL039423.D

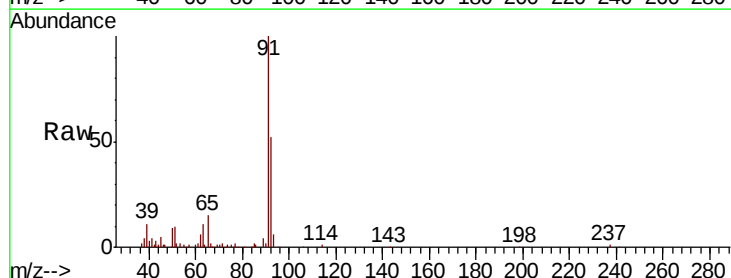
Acq: 5 Jul 2022 17:26

Tgt Ion: 91 Resp: 124455

Ion Ratio Lower Upper

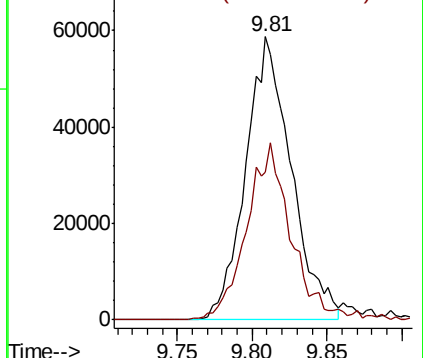
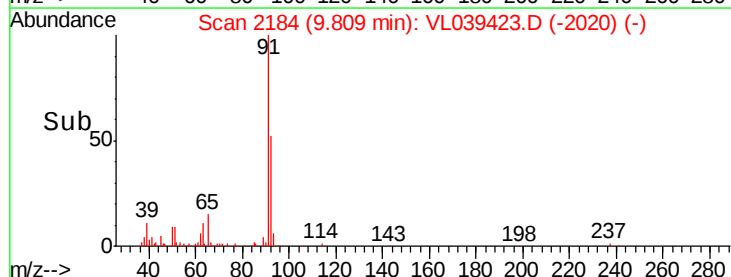
91 100

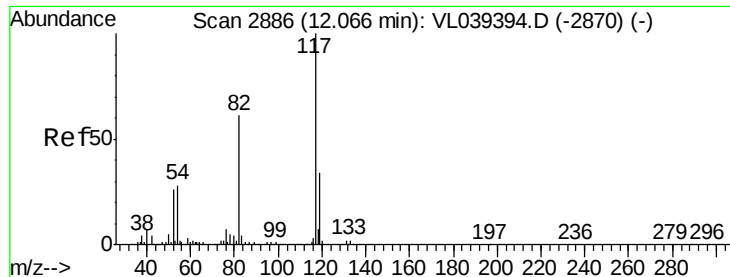
92 61.1 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

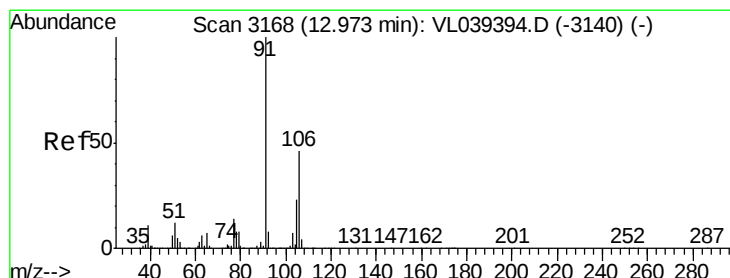
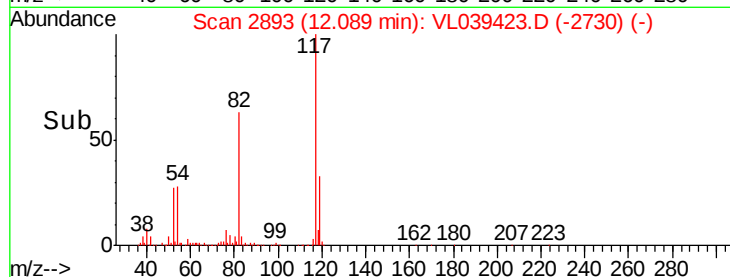
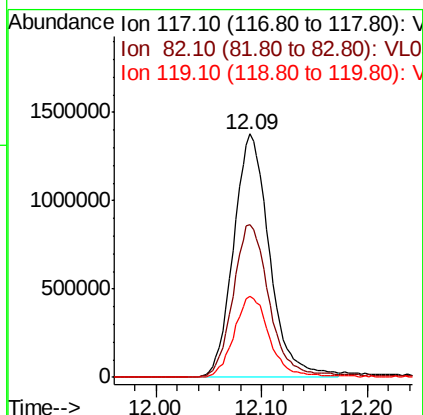
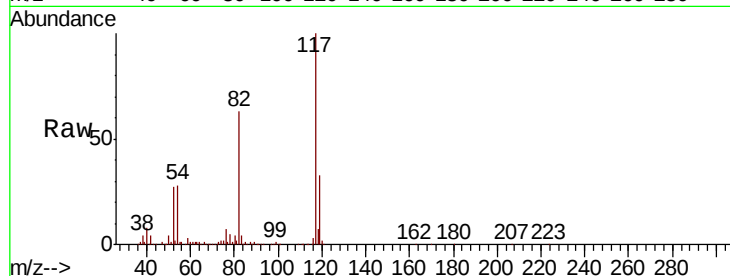
Ion 92.10 (91.80 to 92.80): VL0





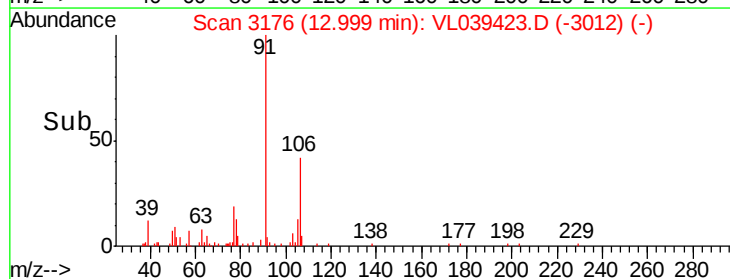
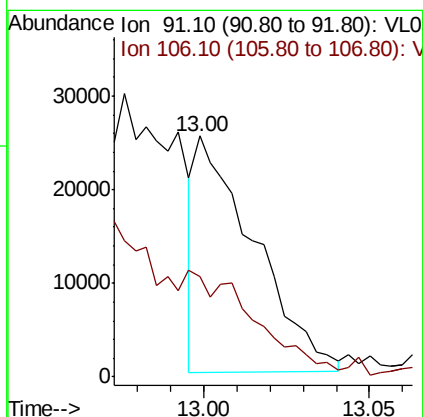
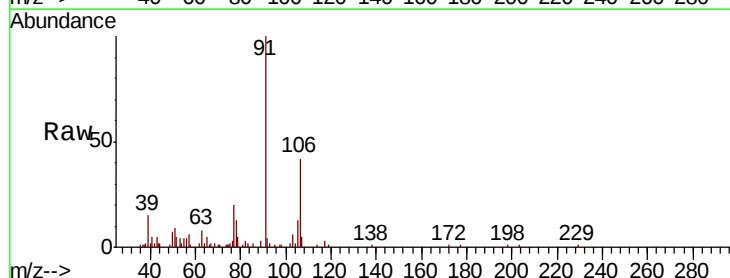
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1
Acq: 5 Jul 2022 17:20

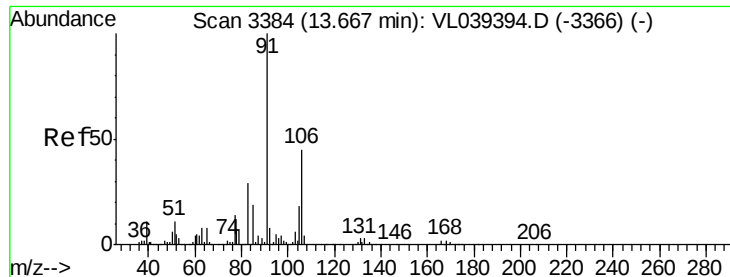
Tot Ion: 117 Resp: 3257743
Ion Ratio Lower Upper
117 100
82 64.5 50.8 76.2
119 33.6 24.1 36.1



#59
m/p-Xylene
Concen: 0.084 ppbv
RT: 13.00 min Scan# 3176
Delta R.T.: 0.03 min
Lab File: VL039423.D
Acq: 5 Jul 2022 17:26

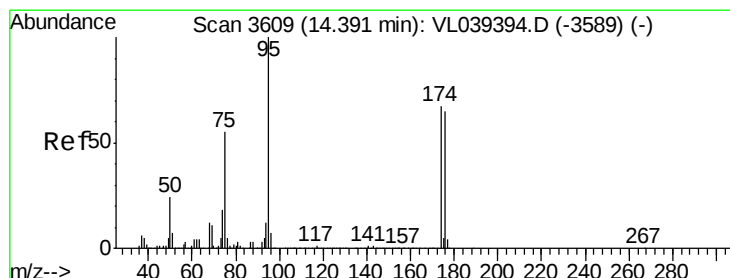
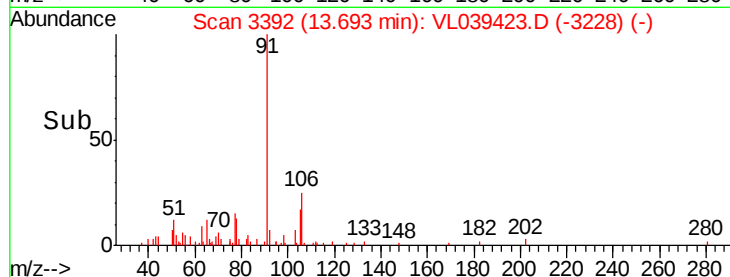
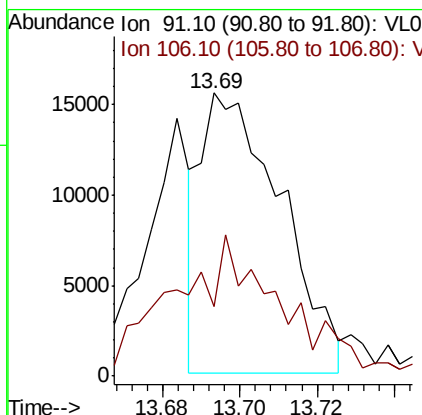
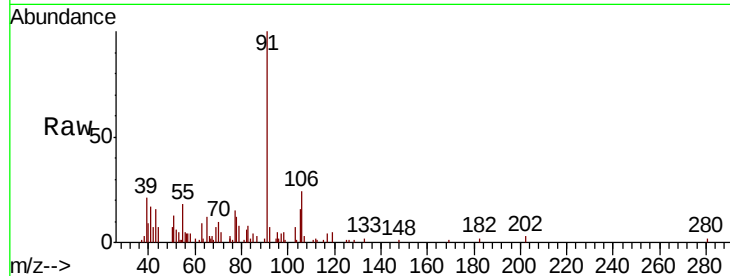
Tgt Ion: 91 Resp: 31092
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





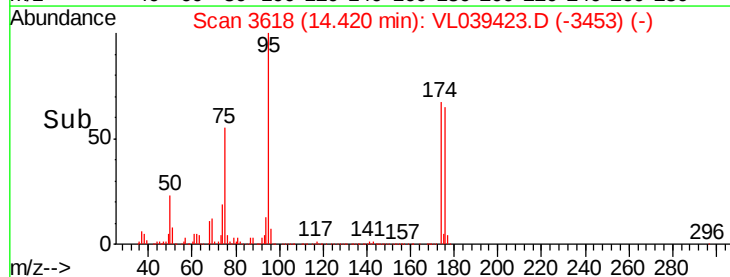
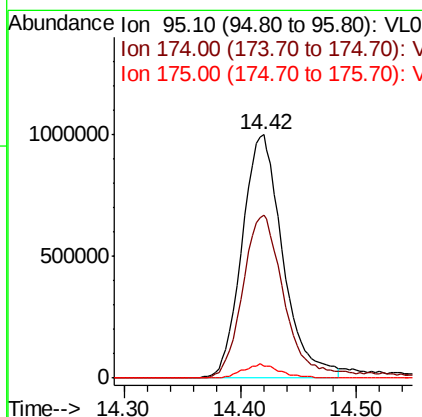
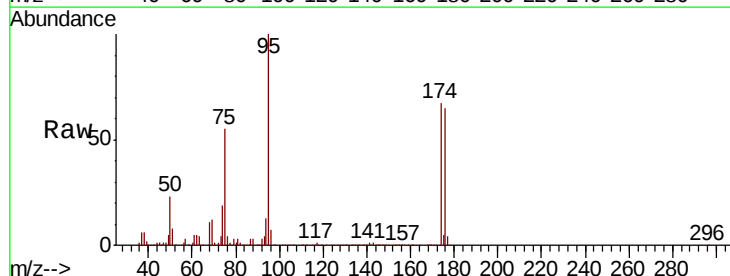
#60
o-Xylene
Concen: 0.063 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 5 Jul 2022 17:26

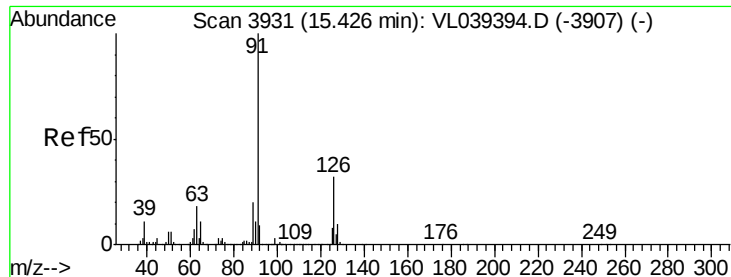
Tot Ion: 91 Resp: 22150
Ion Ratio Lower Upper
91 100
106 72.7 22.4 67.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.098 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. 0.03 min
Lab File: VL039423.D
Acq: 5 Jul 2022 17:26

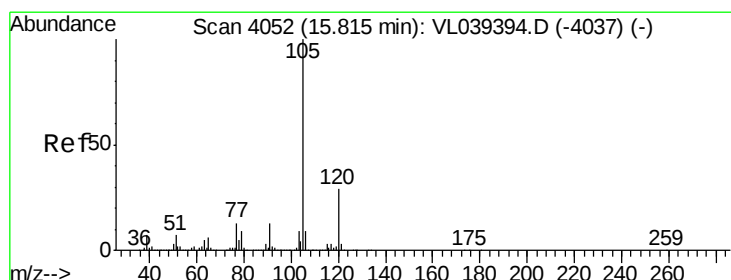
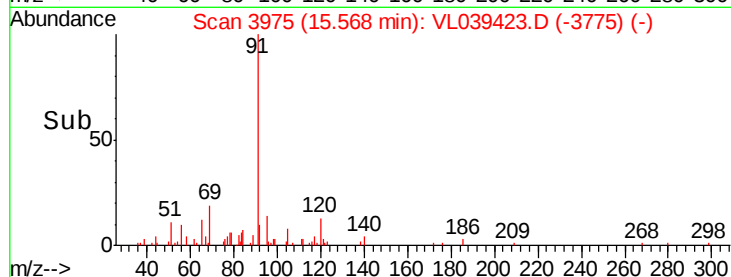
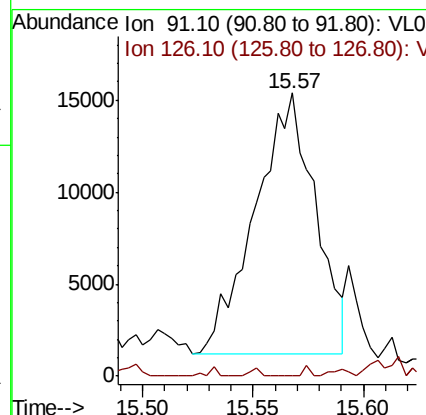
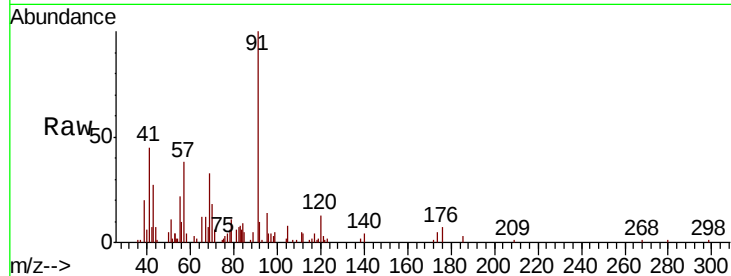
Tgt Ion: 95 Resp: 2440340
Ion Ratio Lower Upper
95 100
174 71.8 55.9 83.9
175 5.3 4.2 6.4





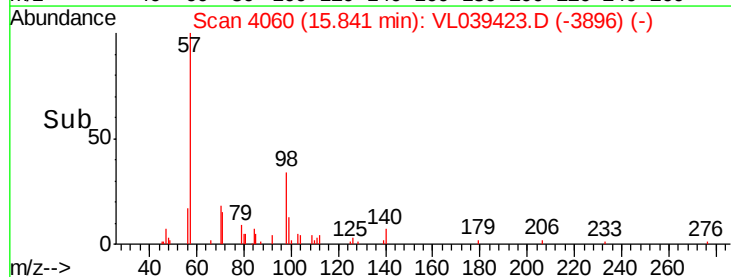
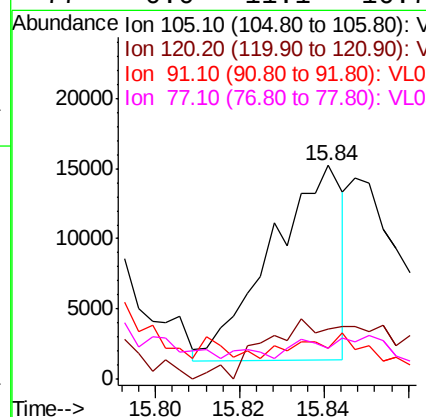
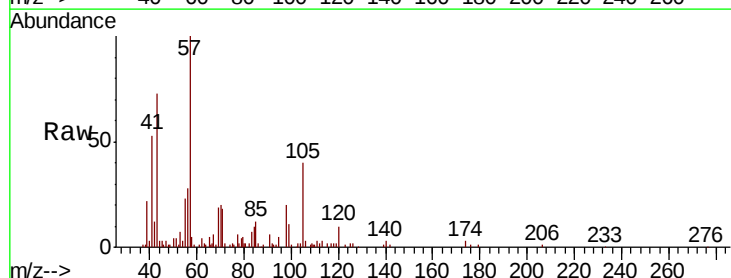
#71
 2-Chlorotoluene
 Concen: 0.070 ppbv
 RT: 15.57
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1
 Acq: 5 Jul 2022 17:28

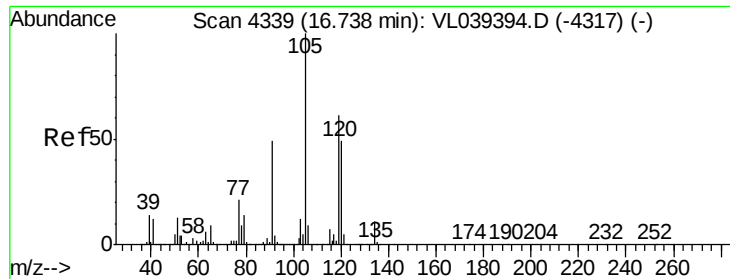
Tot Ion: 91 Resp: 26664
 Ion Ratio Lower Upper
 91 100
 126 1.0 13.0 51.8#



#72
 4-Ethyltoluene
 Concen: 0.040 ppbv
 RT: 15.84 min Scan# 4060
 Delta R.T. 0.03 min
 Lab File: VL039423.D
 Acq: 5 Jul 2022 17:26

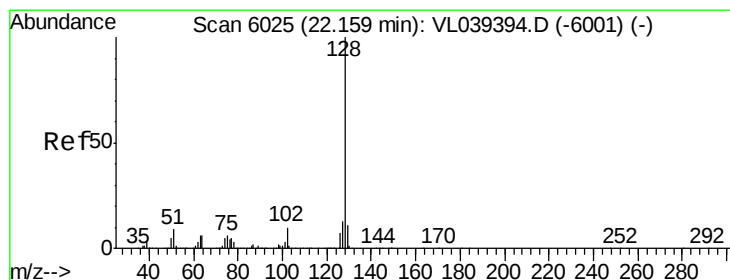
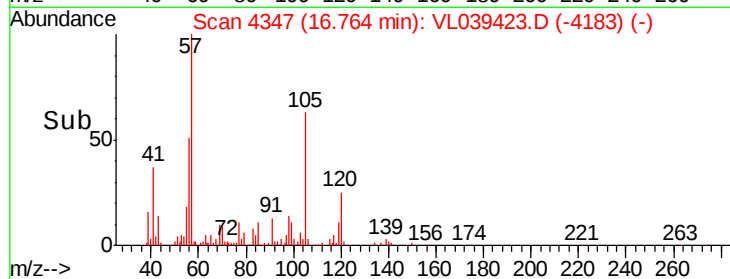
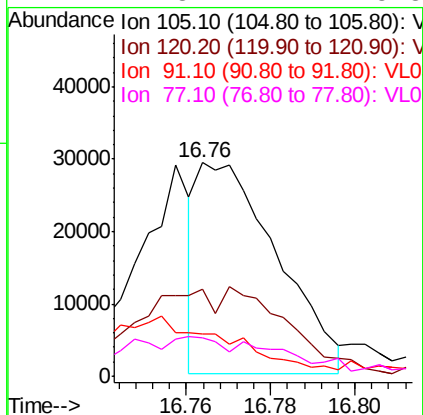
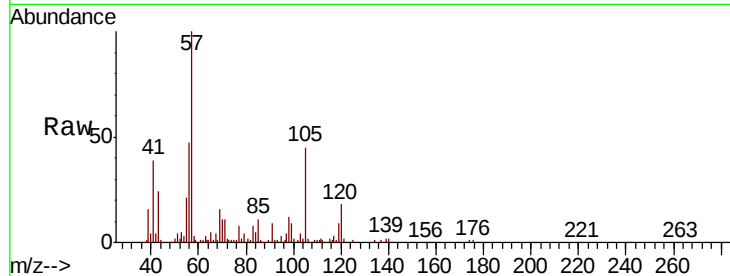
Tgt Ion:105 Resp: 16380
 Ion Ratio Lower Upper
 105 100
 120 63.2 24.2 36.2#
 91 0.0 10.2 15.4#
 77 0.0 11.1 16.7#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.091 ppbv
 RT: 16.76
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : SV1
 Acq: 5 Jul 2022 17:26

Tot Ion:	105	Resp:	38078
Ion	Ratio	Lower	Upper
105	100		
120	37.9	39.5	59.3#
91	19.6	39.2	58.8#
77	11.8	17.2	25.8#



#79
 Naphthalene
 Concen: 0.039 ppbv
 RT: 22.21 min Scan# 6040
 Delta R.T. 0.05 min
 Lab File: VL039423.D
 Acq: 5 Jul 2022 17:26

Tgt Ion:	128	Resp:	11233
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	27.5	8.8	13.2#

