

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070522\
 Data File : VL039425.D
 Acq On : 5 Jul 2022 18:50
 Operator : SY/AP
 Sample : N3573-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Jul 06 02:36:22 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	1436563	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3854946	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	3320167	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2484413	10.09	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

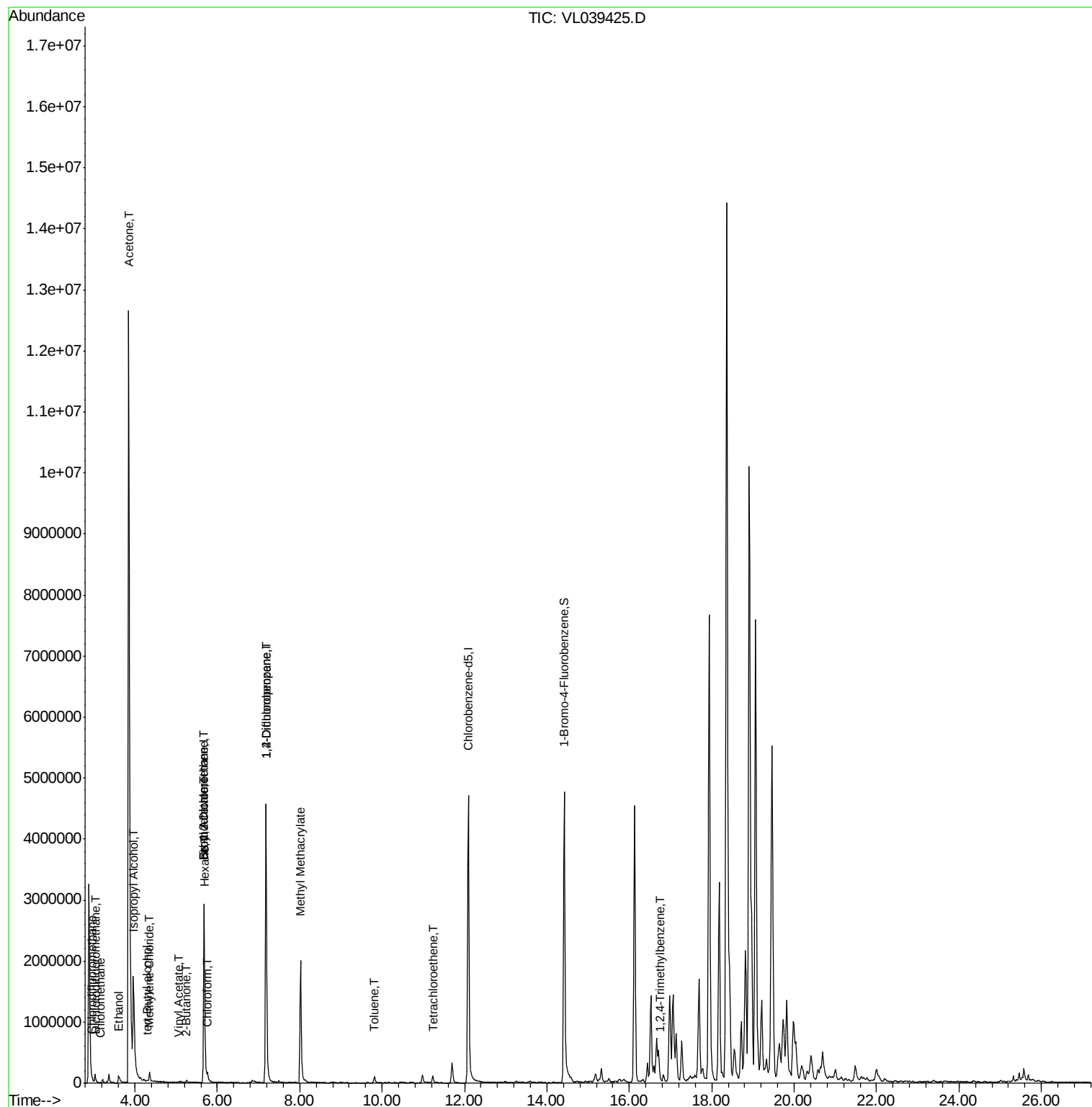
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	6785	0.033	ppbv	92
3) Chlorodifluoromethane	2.98	51	32326	0.177	ppbv #	67
4) Chloromethane	3.15	50	3686	0.037	ppbv #	82
13) Ethanol	3.61	45	151720	31.772	ppbv	87
15) Acetone	3.85	43	17719593	104.260	ppbv #	79
17) tert-Butyl alcohol	4.29	59	8862	0.061	ppbv #	71
19) Isopropyl Alcohol	3.97	45	2127057	23.463	ppbv #	88
20) Methylene Chloride	4.36	84	56799	0.838	ppbv	88
23) Vinyl Acetate	5.07	43	4506	0.040	ppbv #	31
25) Ethyl Acetate	5.68	43	432337	1.241	ppbv #	91
26) Hexane	5.69	57	44558	0.317	ppbv #	1
29) Chloroform	5.76	83	69275	0.284	ppbv	88
31) cis-1,2-Dichloroethene	5.68	61	51246	0.344	ppbv #	26
34) 2-Butanone	5.26	43	40547	0.209	ppbv #	90
39) 1,2-Dichloropropane	7.18	63	935245	8.391	ppbv #	24
43) Methyl Methacrylate	8.02	69	836999	7.378	ppbv	94
52) Tetrachloroethene	11.24	164	5427	0.045	ppbv #	78
53) Toluene	9.82	91	84227	0.245	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	13260	0.031	ppbv #	64

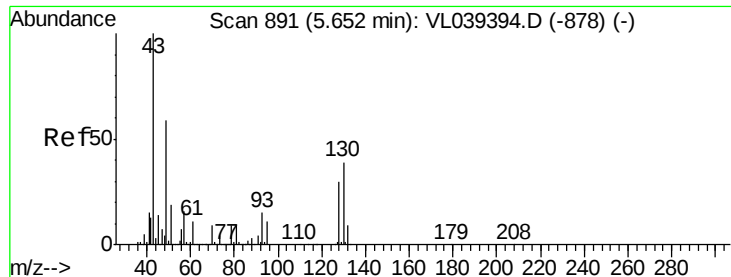
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070522\
Data File : VL039425.D
Acq On : 5 Jul 2022 18:50
Operator : SY/AP
Sample : N3573-01 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Quant Time: Jul 06 02:36:22 2022
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 18:50 SV1DL

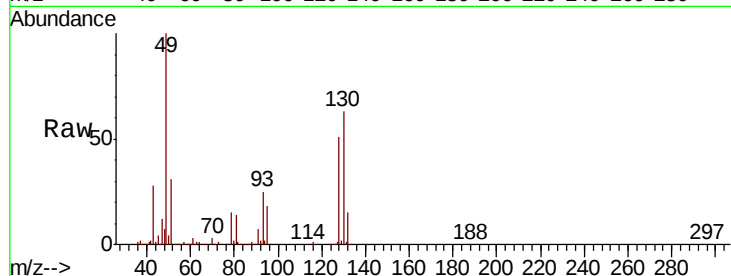
Tot Ion: 49 Resp: 1436563

Ion Ratio Lower Upper

49 100

128 50.9 26.7 80.0

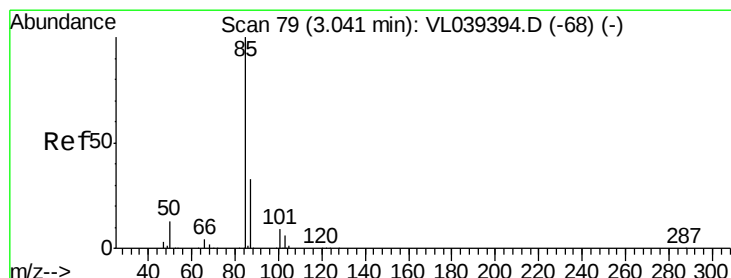
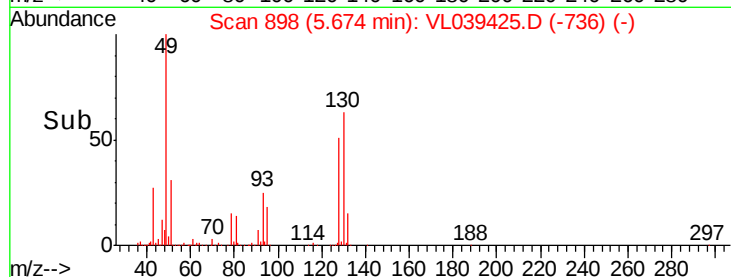
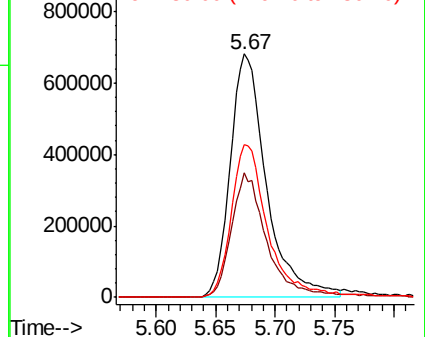
130 64.1 34.3 102.8



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: 0.033 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL039425.D

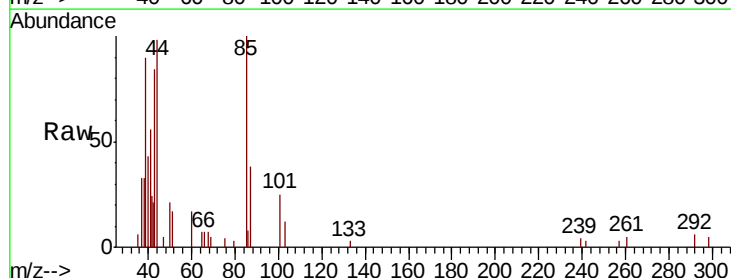
Acq: 5 Jul 2022 18:50

Tgt Ion: 85 Resp: 6785

Ion Ratio Lower Upper

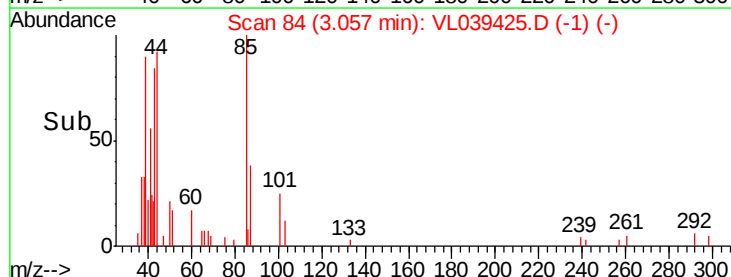
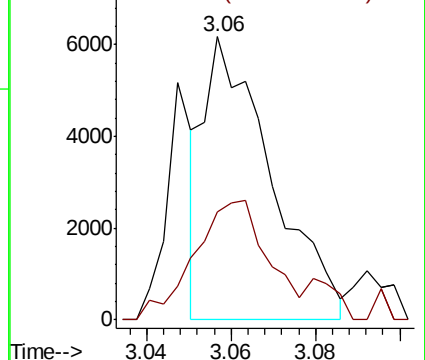
85 100

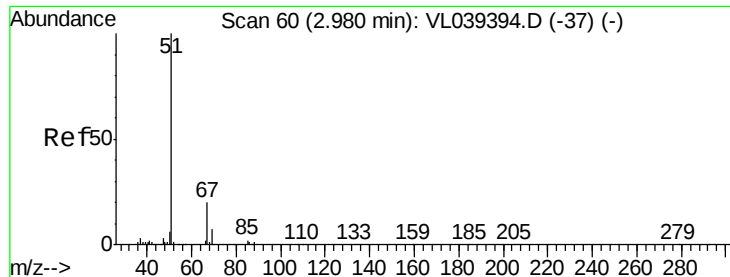
87 28.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.177 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

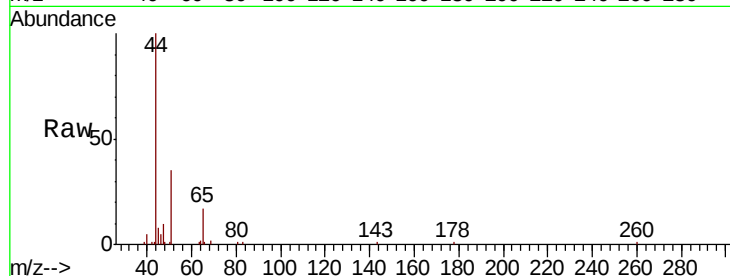
Acq: 5 Jul 2022 18:50 SV1DL

Tot Ion: 51 Resp: 32326

Ion Ratio Lower Upper

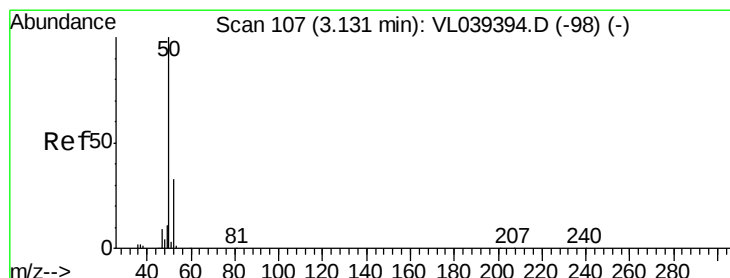
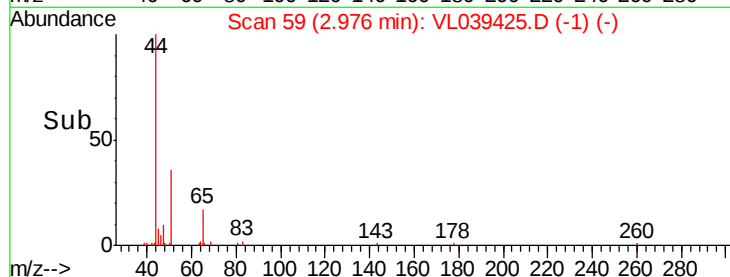
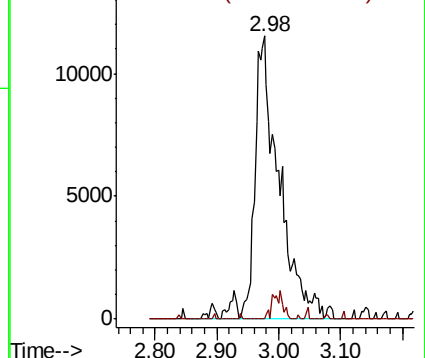
51 100

67 4.6 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: 0.037 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL039425.D

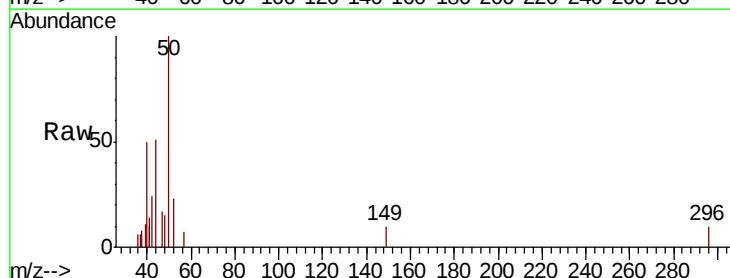
Acq: 5 Jul 2022 18:50

Tgt Ion: 50 Resp: 3686

Ion Ratio Lower Upper

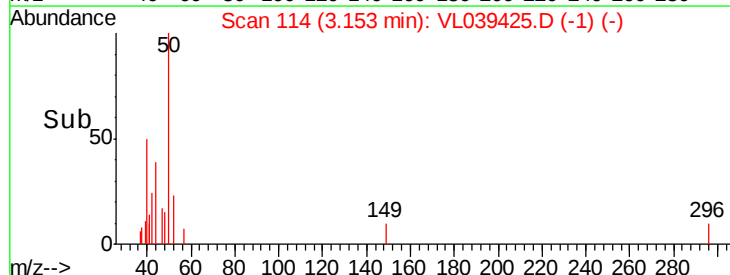
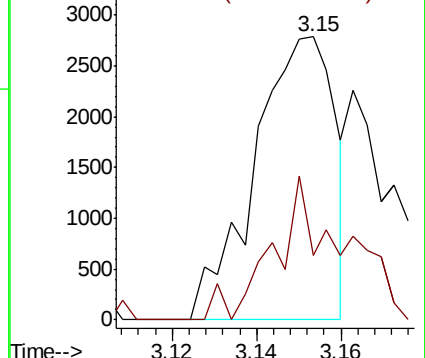
50 100

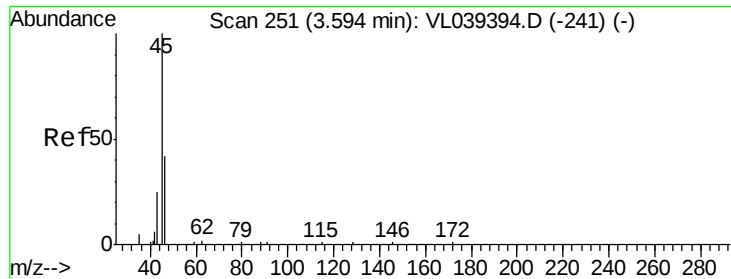
52 22.8 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

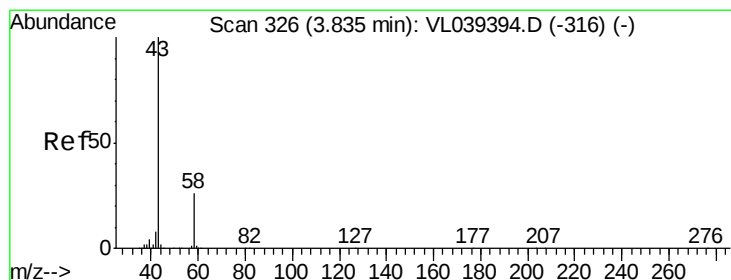
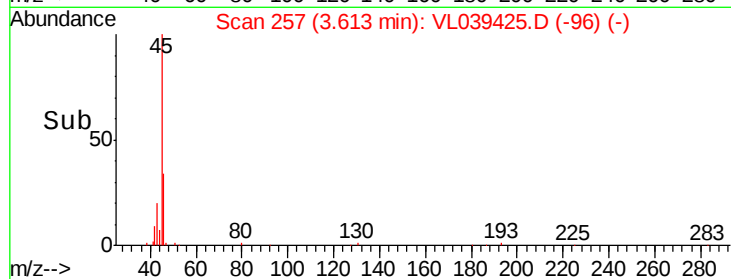
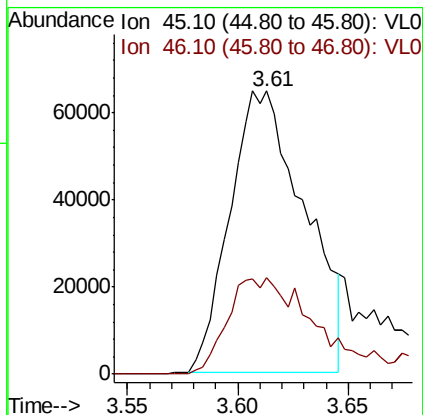
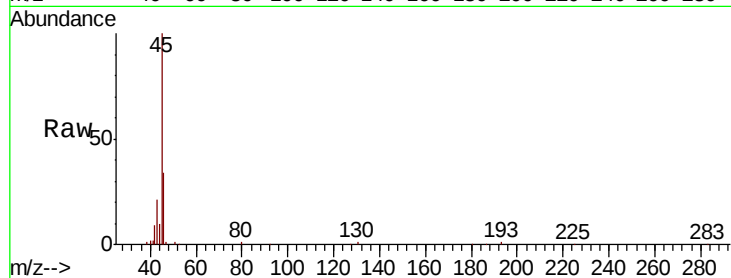
Ion 52.10 (51.80 to 52.80): VL0





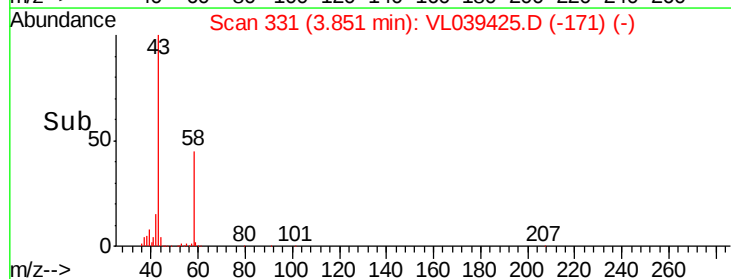
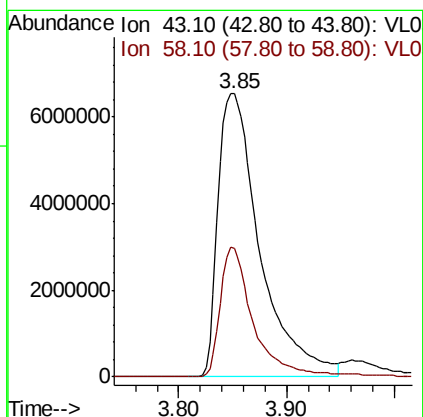
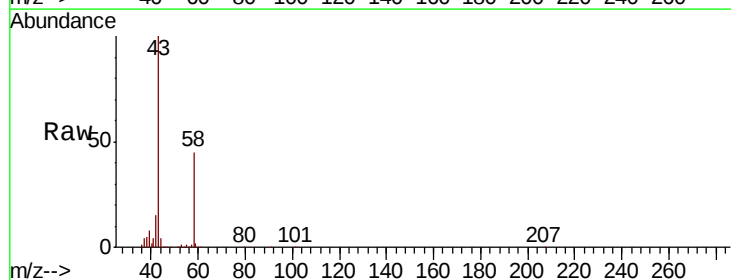
#13
Ethanol
Concen: 31.772 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 5 Jul 2022 18:50

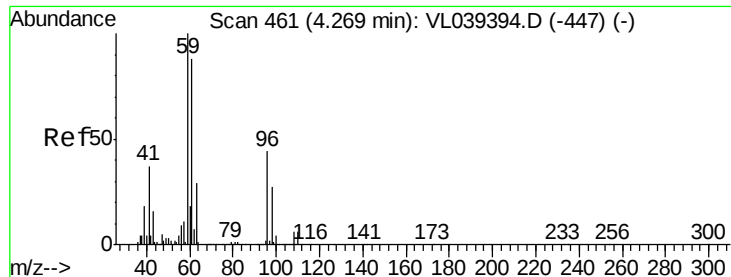
Tot Ion: 45 Resp: 151720
Ion Ratio Lower Upper
45 100
46 47.8 22.8 91.2



#15
Acetone
Concen: 104.260 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.02 min
Lab File: VL039425.D
Acq: 5 Jul 2022 18:50

Tgt Ion: 43 Resp:17719593
Ion Ratio Lower Upper
43 100
58 37.1 21.0 31.6#





#17

tert-Butyl alcohol

Concen: 0.061 ppbv

RT: 4.29 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

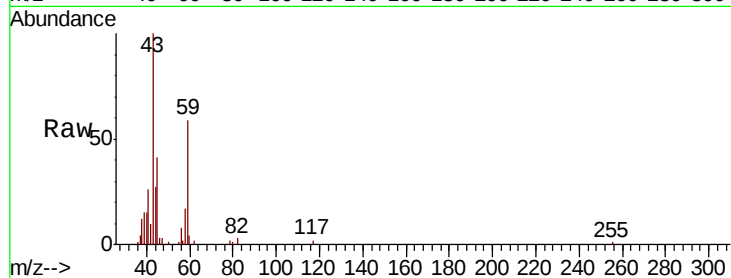
Acq: 5 Jul 2022 18:50 SV1DL

Tot Ion: 59 Resp: 8862

Ion Ratio Lower Upper

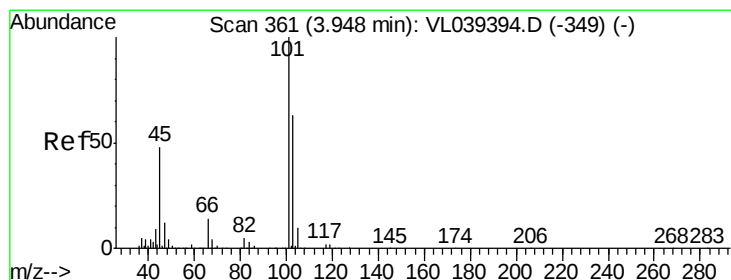
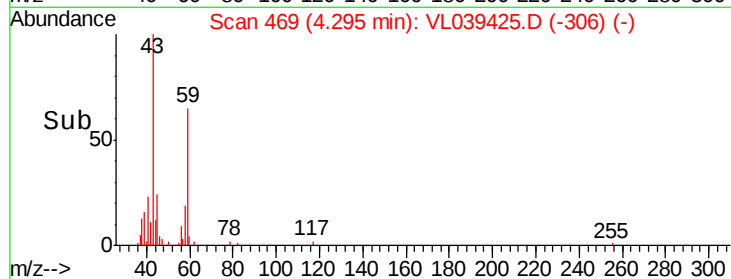
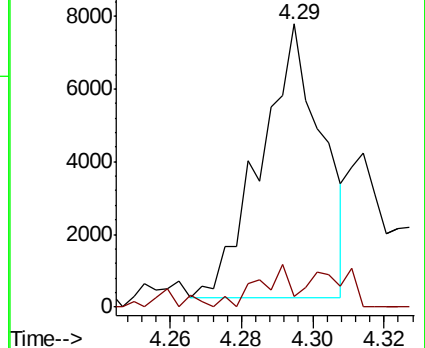
59 100

57 0.0 8.7 13.1#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 23.463 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL039425.D

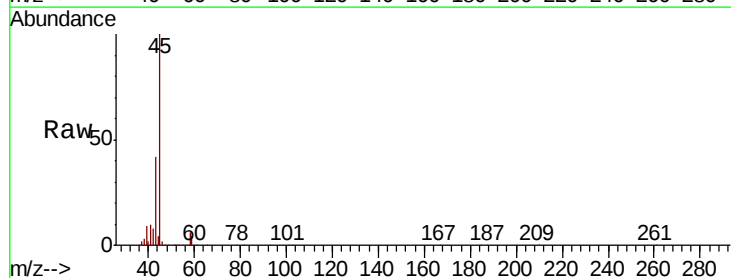
Acq: 5 Jul 2022 18:50

Tgt Ion: 45 Resp: 2127057

Ion Ratio Lower Upper

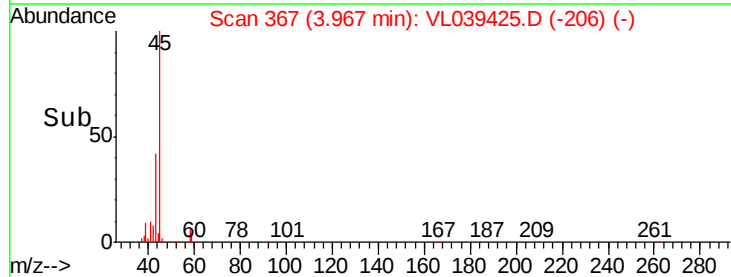
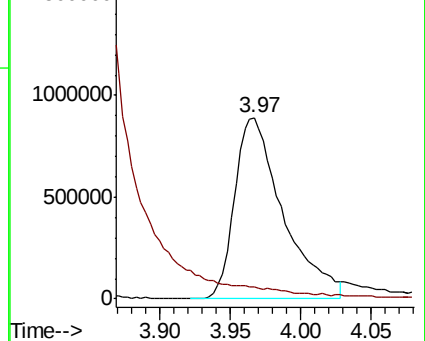
45 100

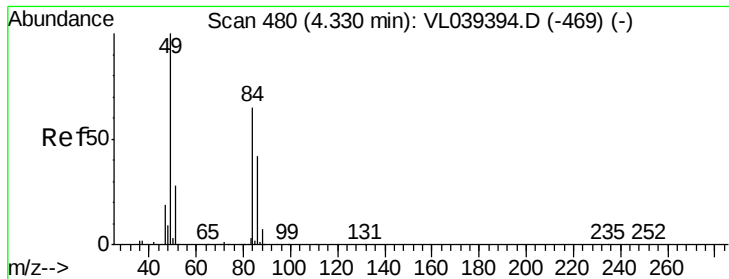
58 0.0 3.2 4.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

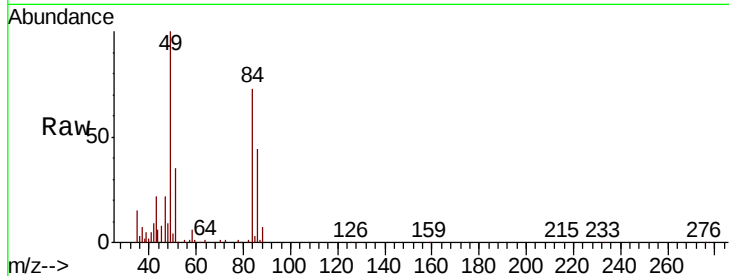
Ion 58.10 (57.80 to 58.80): VL0



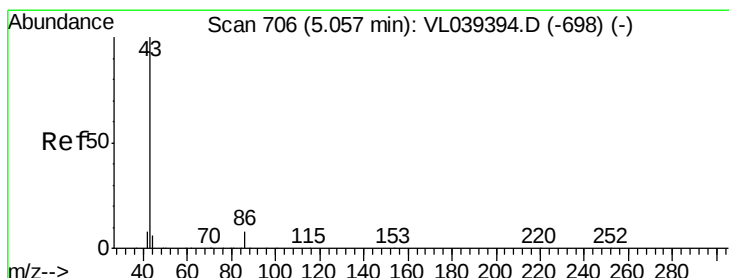
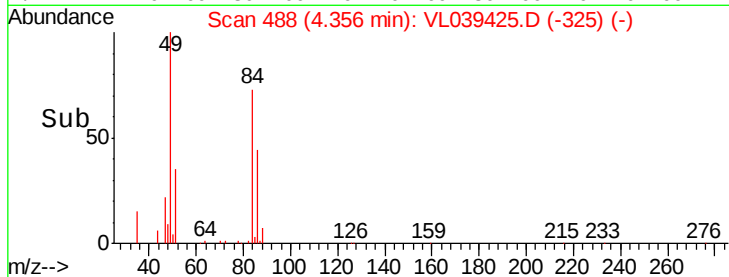
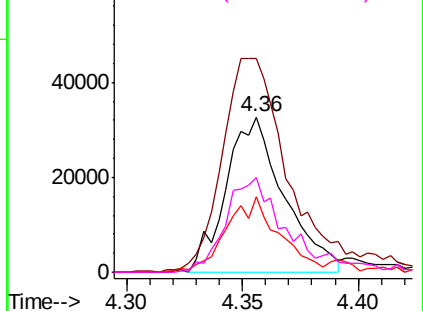


#20
Methylene Chloride
Concen: 0.838 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 18:50

Tot Ion:	84	Resp:	56799
Ion	Ratio	Lower	Upper
84	100		
49	131.7	123.1	184.7
51	46.6	34.4	51.6
86	60.1	51.1	76.7

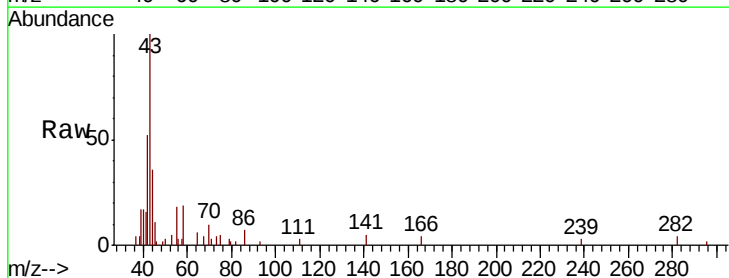


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

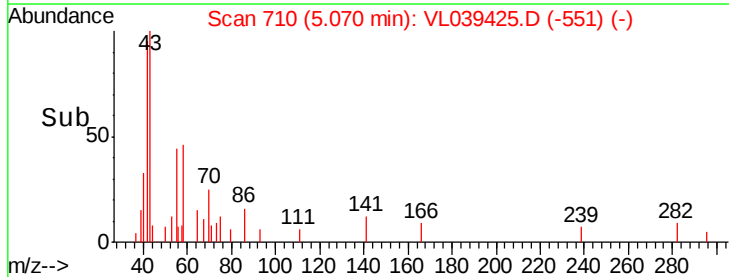
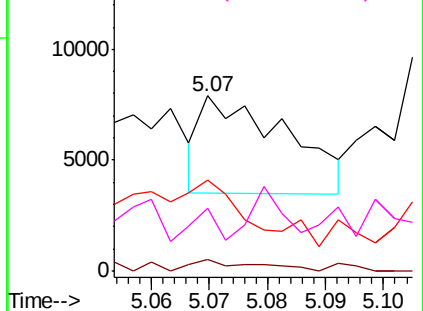


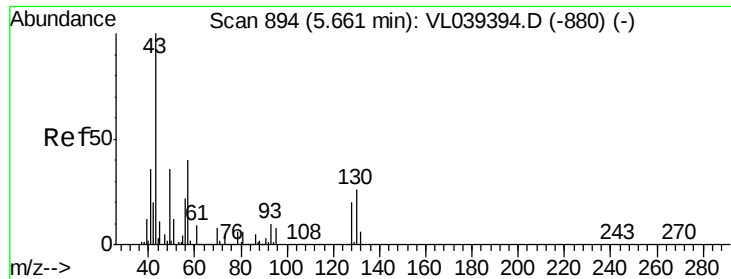
#23
Vinyl Acetate
Concen: 0.040 ppbv
RT: 5.07 min Scan# 710
Delta R.T. 0.01 min
Lab File: VL039425.D
Acq: 5 Jul 2022 18:50

Tgt Ion:	43	Resp:	4506
Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.0	7.6#
42	62.3	7.7	11.5#
44	10.8	4.6	7.0#



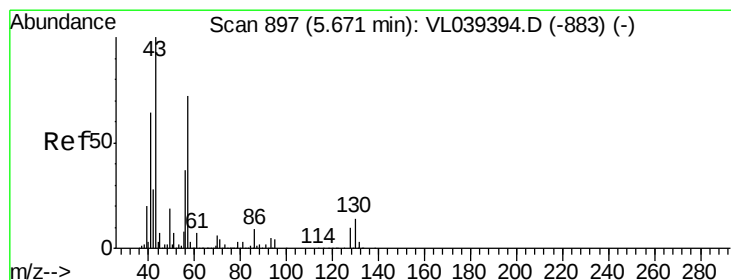
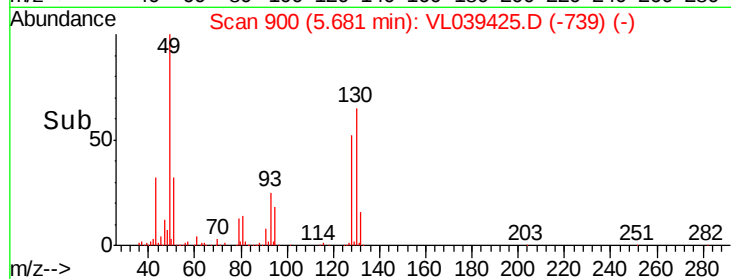
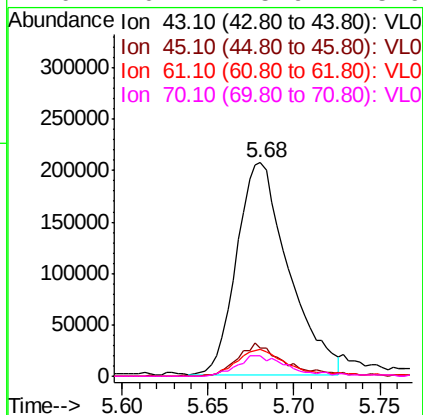
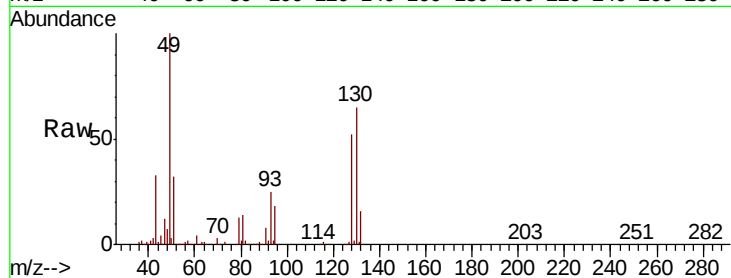
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





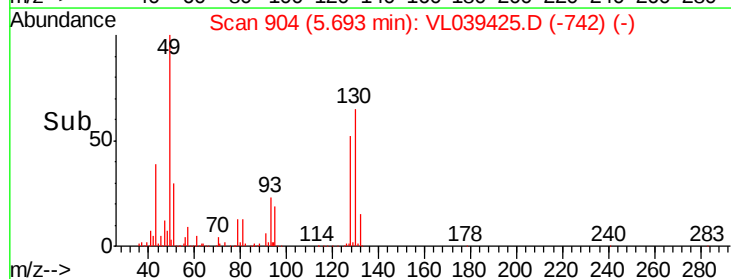
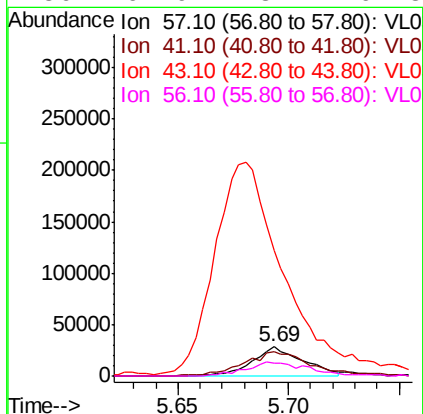
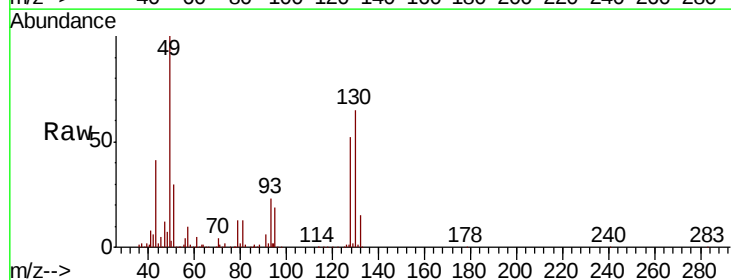
#25
Ethyl Acetate
Concen: 1.241 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 5 Jul 2022 18:50

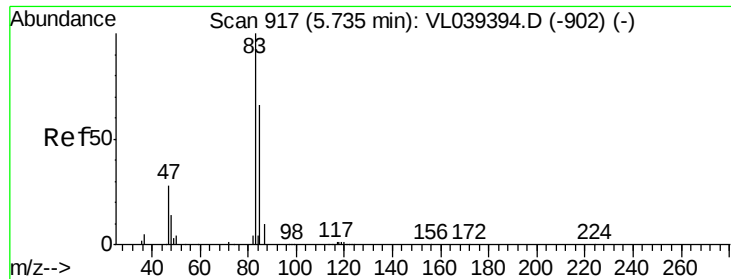
Tot Ion:	43	Resp:	432337
Ion	Ratio	Lower	Upper
43	100		
45	15.2	8.2	12.4#
61	13.0	8.3	12.5#
70	10.2	5.9	8.9#



#26
Hexane
Concen: 0.317 ppbv
RT: 5.69 min Scan# 904
Delta R.T.: 0.02 min
Lab File: VL039425.D
Acq: 5 Jul 2022 18:50

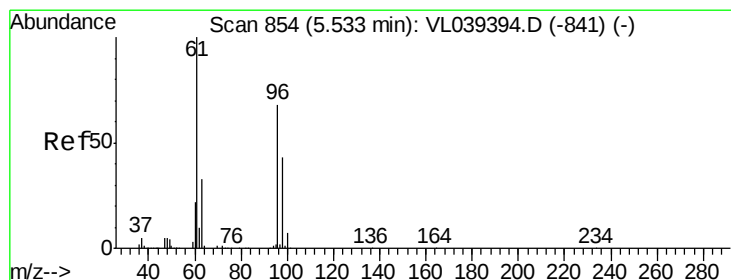
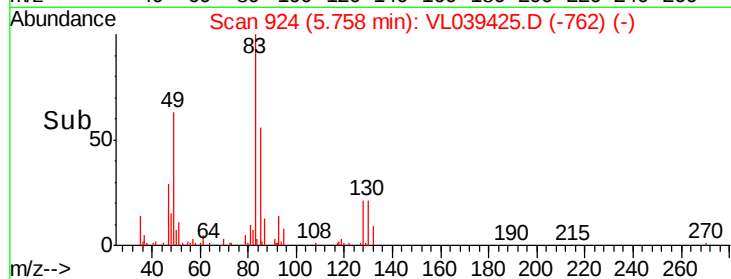
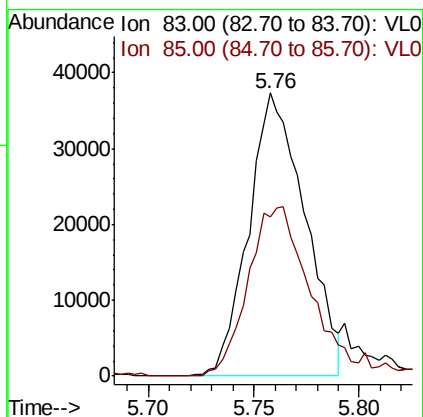
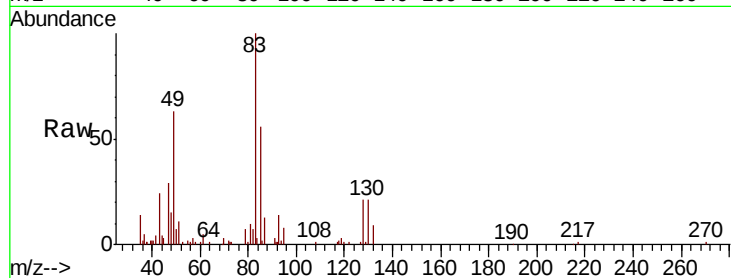
Tgt Ion:	57	Resp:	44558
Ion	Ratio	Lower	Upper
57	100		
41	114.2	76.9	115.3
43	1030.6	191.0	286.6#
56	62.9	43.2	64.8





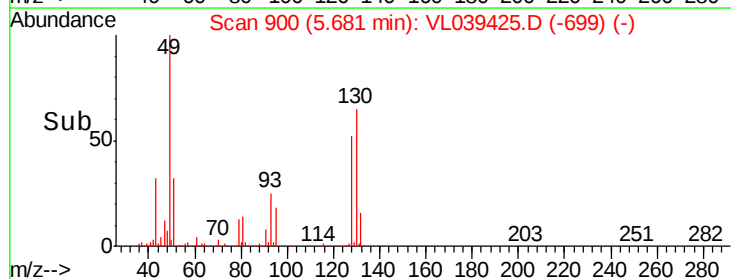
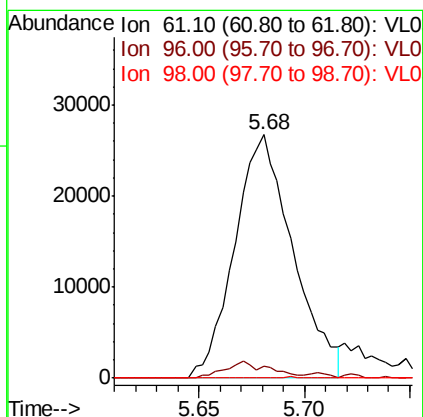
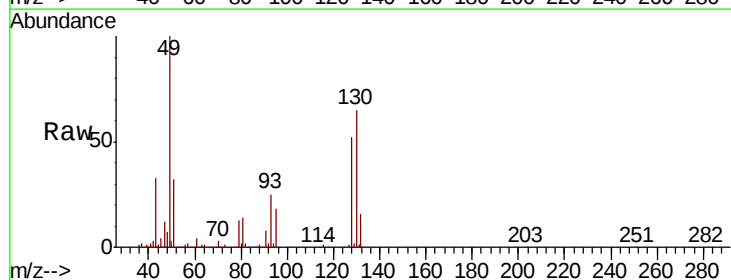
#29
Chloroform
Concen: 0.284 ppbv
RT: 5.76
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 18:50

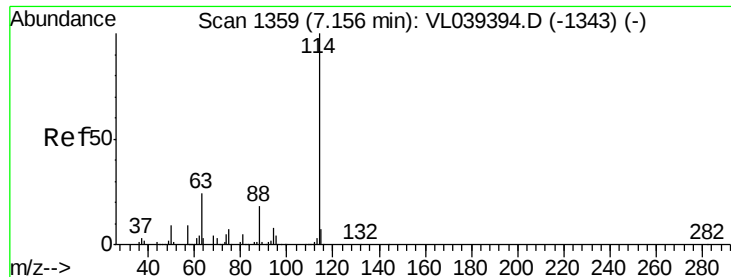
Tot Ion: 83 Resp: 69275
Ion Ratio Lower Upper
83 100
85 56.3 52.8 79.2



#31
cis-1,2-Dichloroethene
Concen: 0.344 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.15 min
Lab File: VL039425.D
Acq: 5 Jul 2022 18:50

Tgt Ion: 61 Resp: 51246
Ion Ratio Lower Upper
61 100
96 4.9 54.1 81.1#
98 0.0 34.6 52.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 18:50 SV1DL

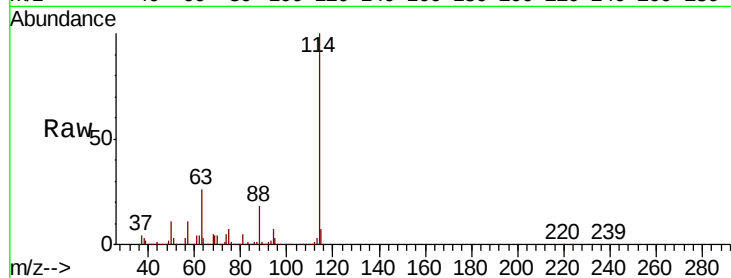
Tot Ion:114 Resp: 3854946

Ion Ratio Lower Upper

114 100

63 25.0 20.2 30.4

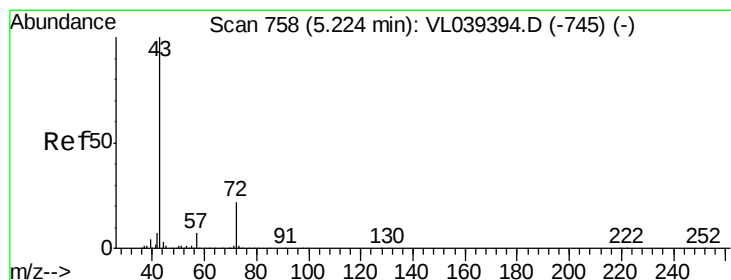
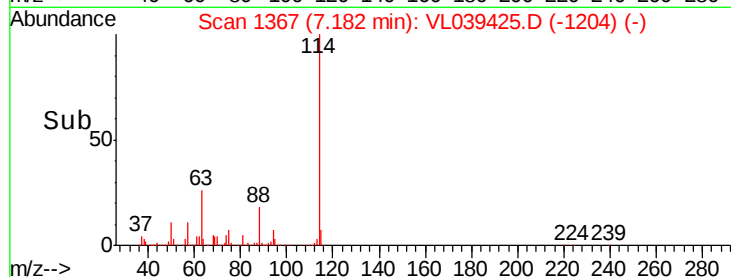
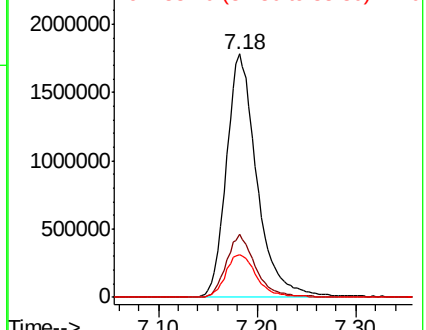
88 18.1 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.209 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.03 min

Lab File: VL039425.D

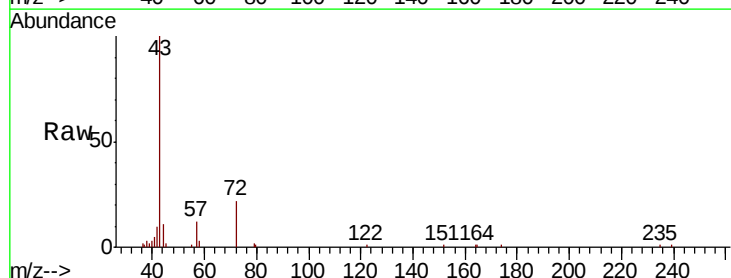
Acq: 5 Jul 2022 18:50

Tgt Ion: 43 Resp: 40547

Ion Ratio Lower Upper

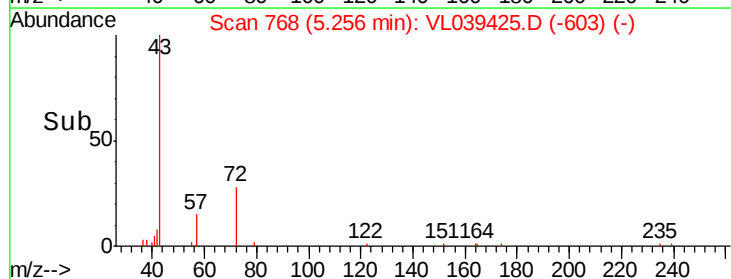
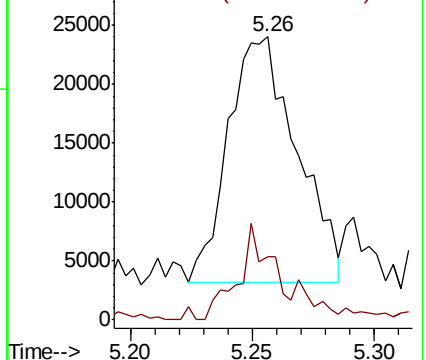
43 100

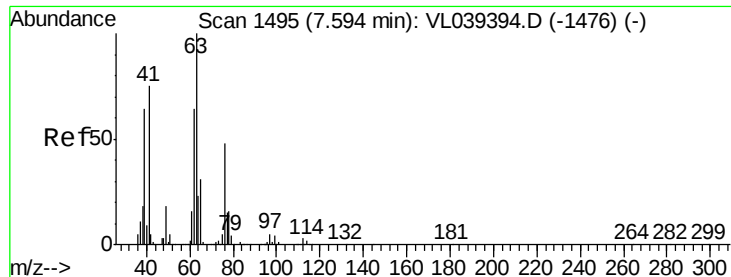
72 27.4 17.9 26.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.391 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 18:50 SV1DL

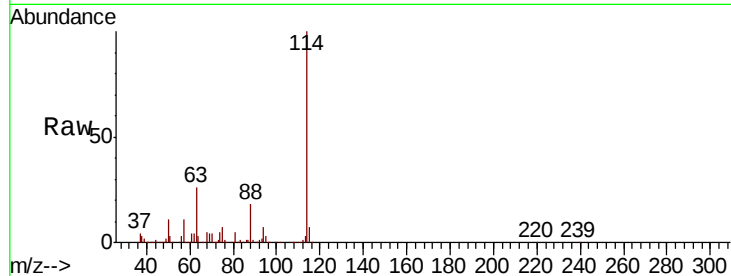
Tot Ion: 63 Resp: 935245

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

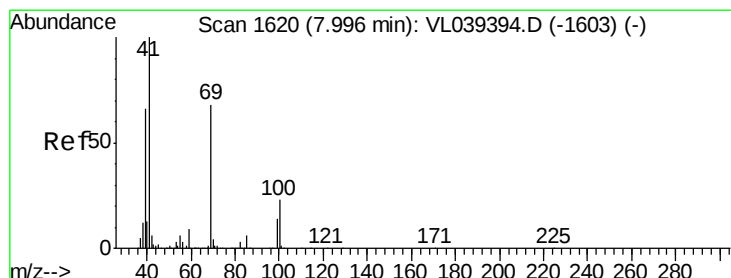
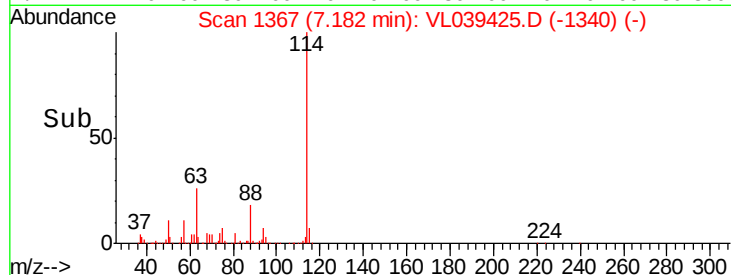
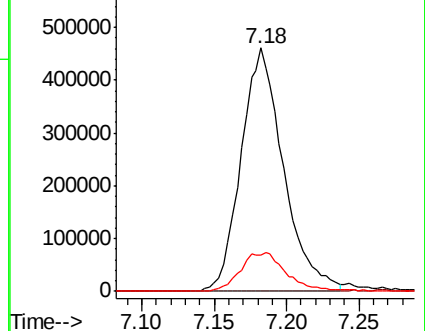
62 14.7 51.4 77.0#



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



#43

Methyl Methacrylate

Concen: 7.378 ppbv

RT: 8.02 min Scan# 1627

Delta R.T. 0.02 min

Lab File: VL039425.D

Acq: 5 Jul 2022 18:50

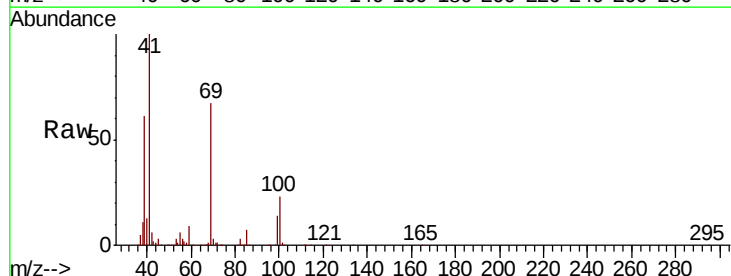
Tgt Ion: 69 Resp: 836999

Ion Ratio Lower Upper

69 100

41 159.6 120.8 181.2

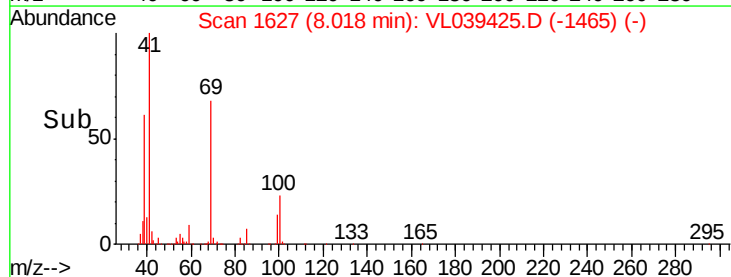
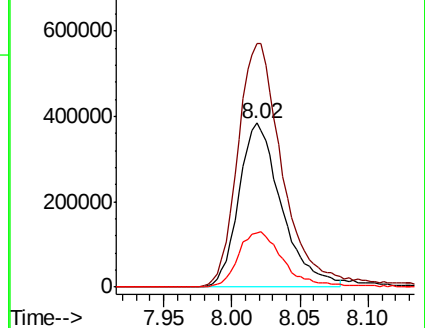
100 36.2 27.8 41.6

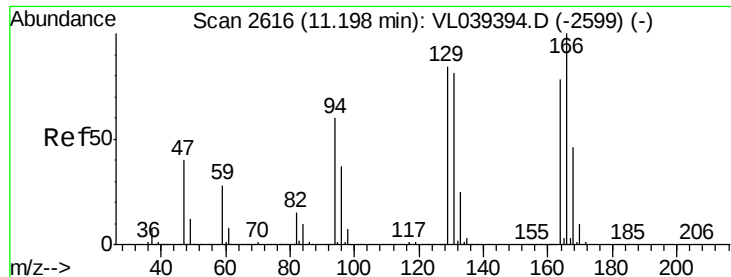


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#52

Tetrachloroethene

Concen: 0.045 ppbv

RT: 11.24

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 Jul 2022 18:50

Tot Ion:164 Resp: 5427

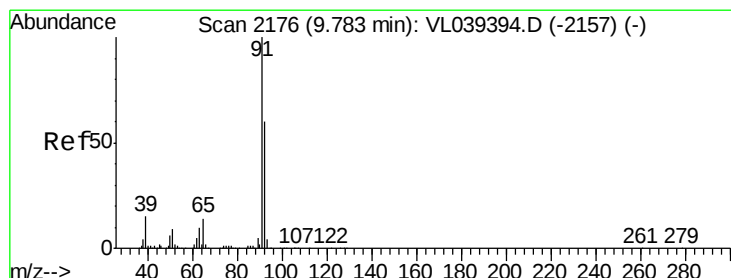
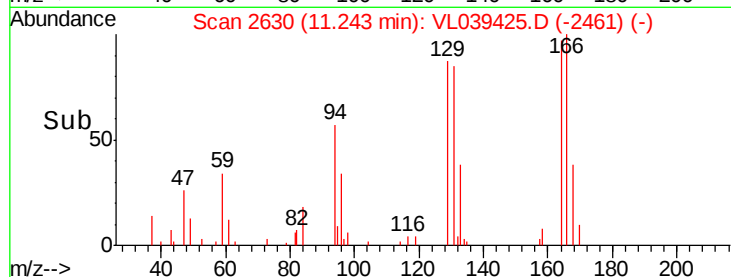
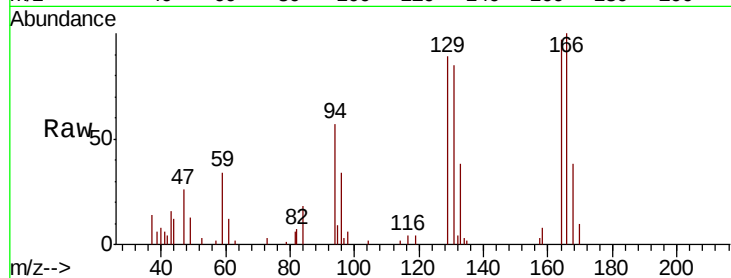
Ion Ratio Lower Upper

164 100

166 86.9 102.2 153.2#

129 88.3 85.8 128.8

131 94.7 83.3 124.9



#53

Toluene

Concen: 0.245 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.03 min

Lab File: VL039425.D

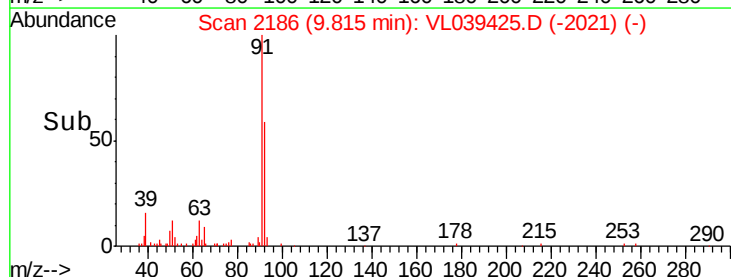
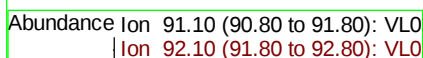
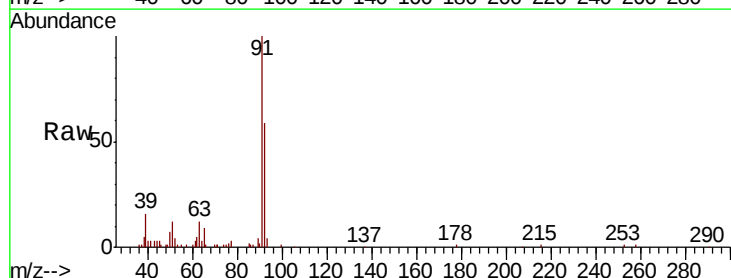
Acq: 5 Jul 2022 18:50

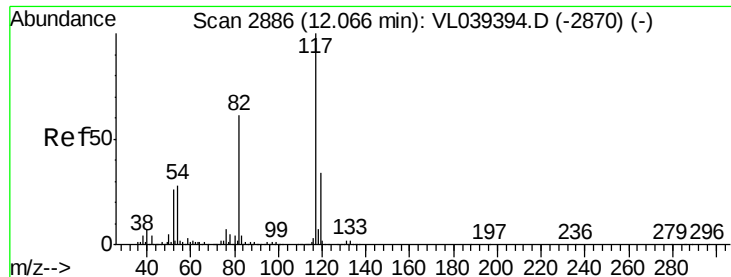
Tgt Ion: 91 Resp: 84227

Ion Ratio Lower Upper

91 100

92 62.4 48.2 72.2

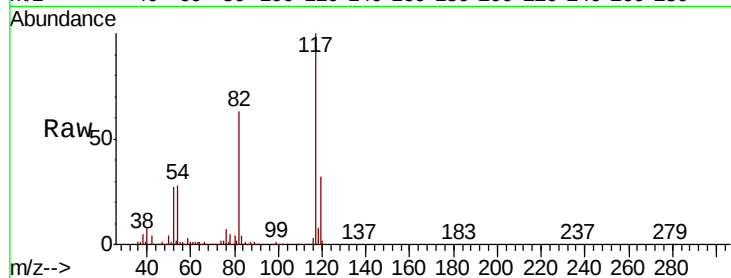




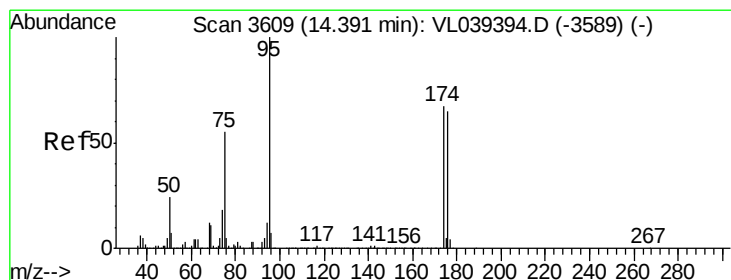
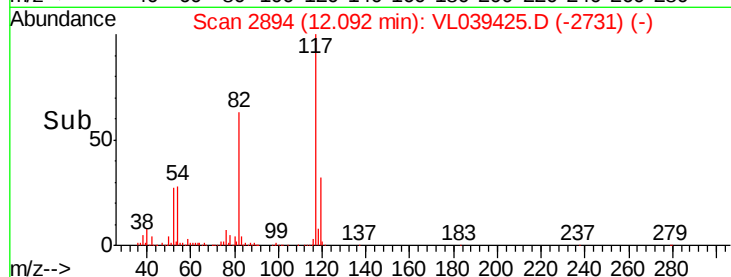
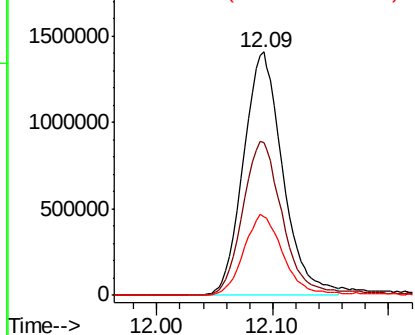
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SV1DL
 Acq: 5 Jul 2022 18:50

Tot Ion: 117 Resp: 3320167

Ion	Ratio	Lower	Upper
117	100		
82	66.7	50.8	76.2
119	33.7	24.1	36.1



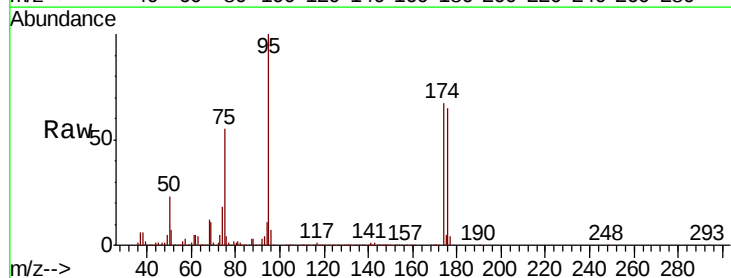
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



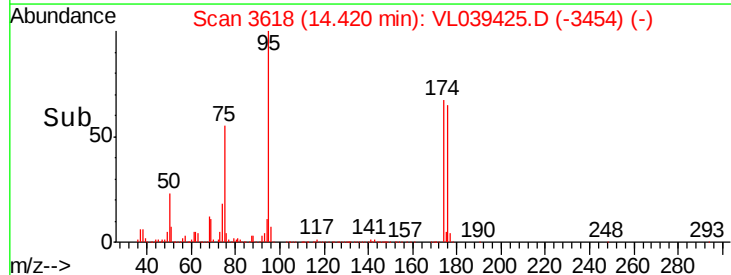
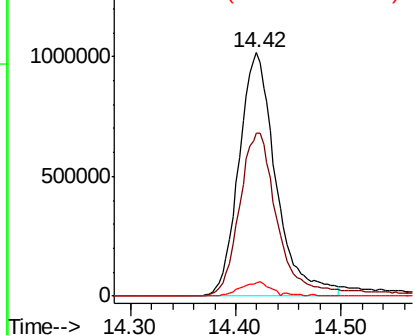
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.087 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T.: 0.03 min
 Lab File: VL039425.D
 Acq: 5 Jul 2022 18:50

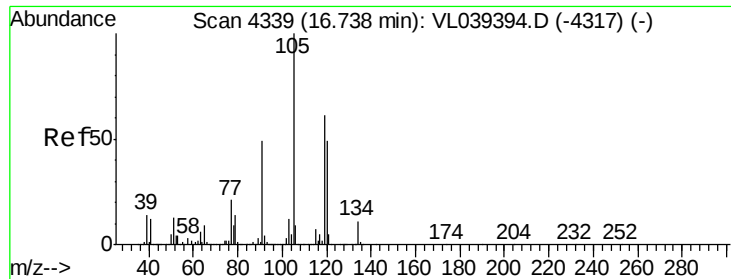
Tgt Ion: 95 Resp: 2484413

Ion	Ratio	Lower	Upper
95	100		
174	72.0	55.9	83.9
175	5.1	4.2	6.4



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





#74
 1,2,4-Trimethylbenzene
 Concen: 0.031 ppbv
 RT: 16.76
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 5 Jul 2022 18:50

Tot Ion:	105	Resp:	13260
Ion	Ratio	Lower	Upper
105	100		
120	20.0	39.5	59.3#
91	25.2	39.2	58.8#
77	11.3	17.2	25.8#

