

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039373.D
 Acq On : 28 Jun 2022 00:42
 Operator : SY/AP
 Sample : N3453-01 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

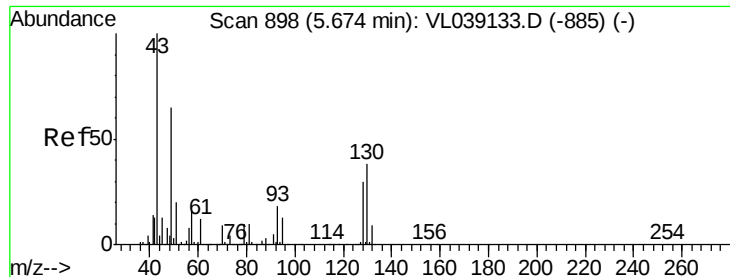
Quant Time: Jun 28 02:39:58 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	929211	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	2920794	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2552098	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.40	95	1938325	9.19	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	12645	0.107	ppbv #	85
9) Propene	3.01	41	1926	0.037	ppbv #	15
10) Heptane	8.10	43	3739	0.031	ppbv #	1
13) Ethanol	3.60	45	88751	31.567	ppbv #	100
15) Acetone	3.85	43	191348	1.977	ppbv	95
16) 1,3-Butadiene	3.33	39	2779	0.053	ppbv #	21
19) Isopropyl Alcohol	3.96	45	3169	0.070	ppbv #	93
20) Methylene Chloride	4.34	84	119471	2.929	ppbv	89
23) Vinyl Acetate	5.08	43	4505	0.056	ppbv #	84
25) Ethyl Acetate	5.68	43	69164	0.317	ppbv #	79
26) Hexane	5.68	57	93126	0.971	ppbv #	40
27) Carbon Disulfide	4.54	76	12859	0.129	ppbv #	66
30) Cyclohexane	7.12	84	2953	0.037	ppbv #	1
34) 2-Butanone	5.25	43	11978	0.075	ppbv #	27
36) Benzene	6.88	78	41169	0.174	ppbv #	92
39) 1,2-Dichloropropane	7.22	63	12271	0.130	ppbv #	26
53) Toluene	9.80	91	160881	0.589	ppbv	100
58) Ethyl Benzene	12.70	91	25906	0.074	ppbv	91
59) m/p-Xylene	12.99	91	27122	0.088	ppbv #	33
60) o-Xylene	13.68	91	19501	0.067	ppbv #	31
72) 4-Ethyltoluene	15.83	105	20039	0.059	ppbv #	79
73) 1,3,5-Trimethylbenzene	15.98	105	38857	0.126	ppbv	86
74) 1,2,4-Trimethylbenzene	16.75	105	187330	0.546	ppbv #	59

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-1

Acq: 28 Jun 2022 00:42

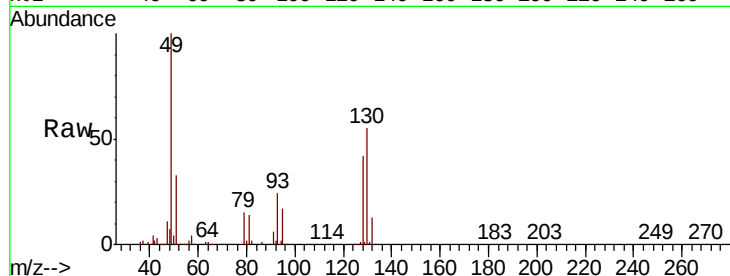
Tot Ion: 49 Resp: 929211

Ion Ratio Lower Upper

49 100

128 48.3 24.7 74.1

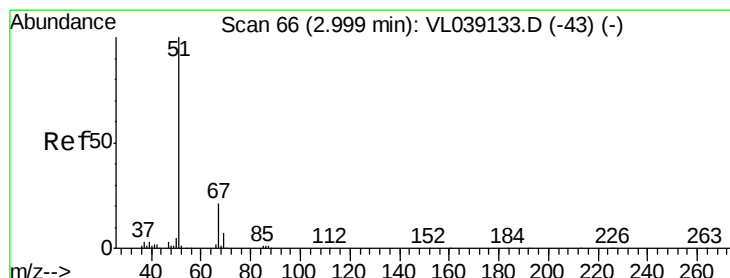
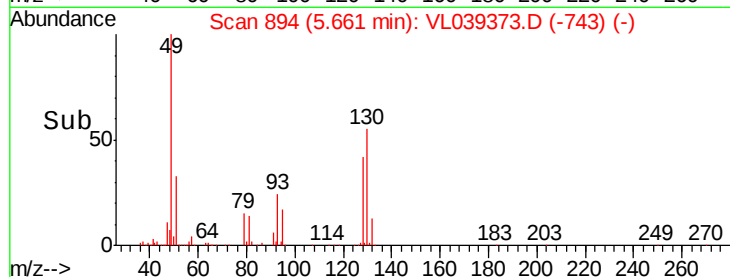
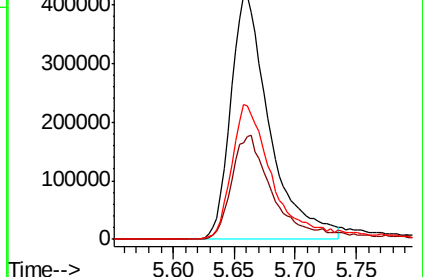
130 61.5 31.4 94.0



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: 0.107 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.02 min

Lab File: VL039373.D

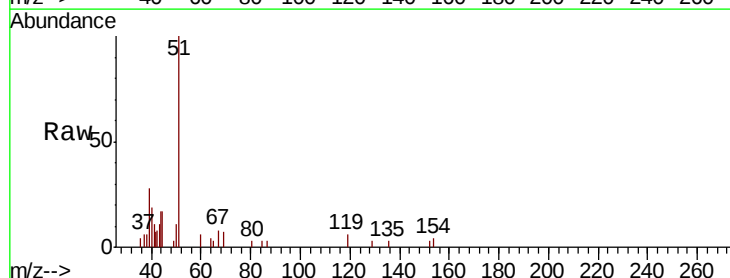
Acq: 28 Jun 2022 00:42

Tgt Ion: 51 Resp: 12645

Ion Ratio Lower Upper

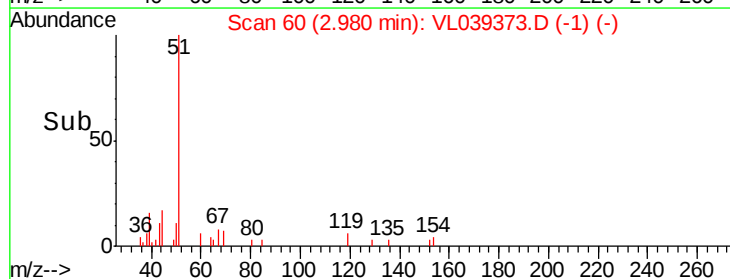
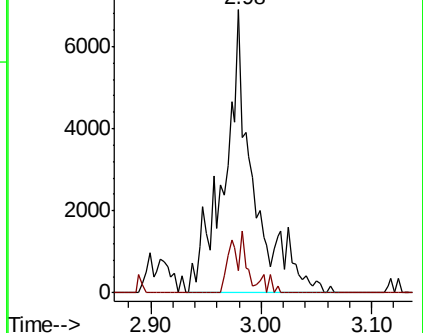
51 100

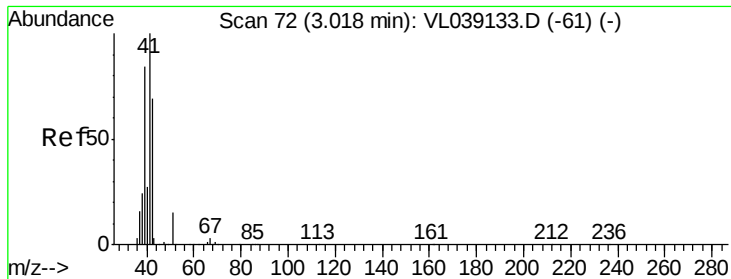
67 13.3 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.037 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

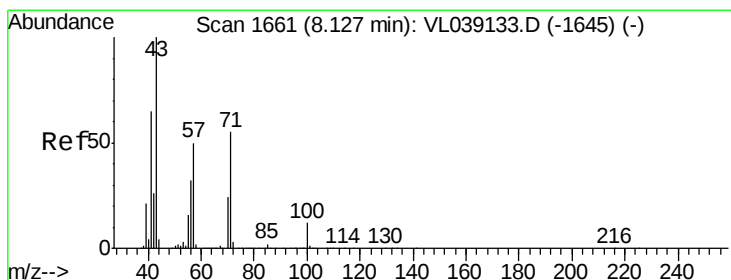
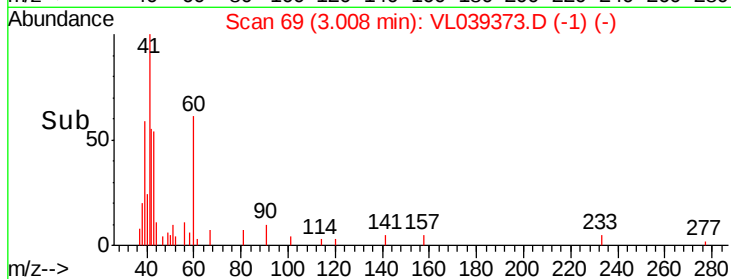
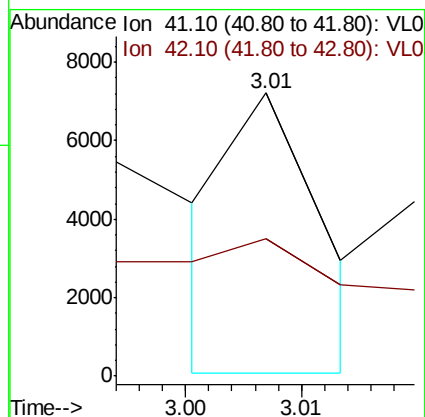
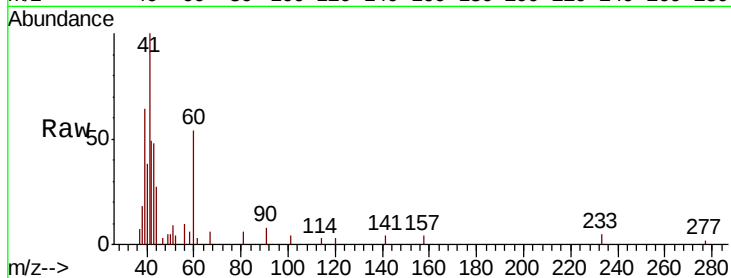
Acq: 28 Jun 2022 00:42 SG-1

Tot Ion: 41 Resp: 1926

Ion Ratio Lower Upper

41 100

42 0.0 55.4 83.2#



#10

Heptane

Concen: 0.031 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL039373.D

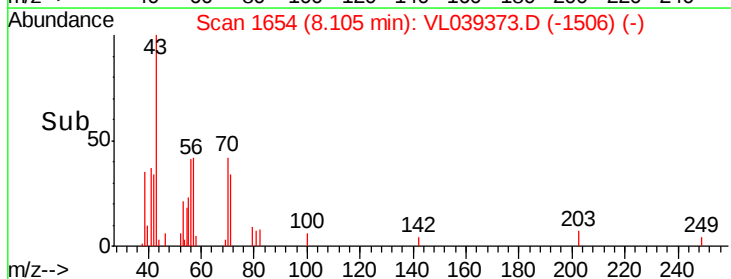
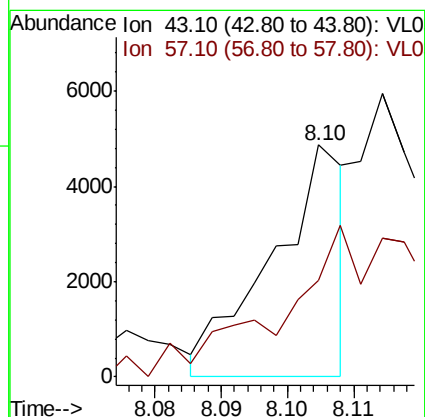
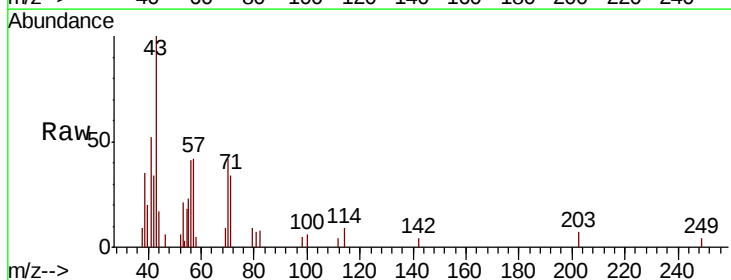
Acq: 28 Jun 2022 00:42

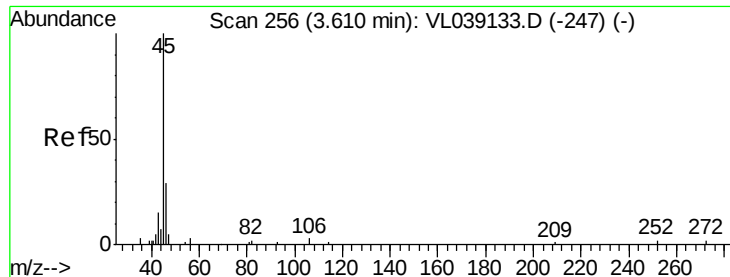
Tgt Ion: 43 Resp: 3739

Ion Ratio Lower Upper

43 100

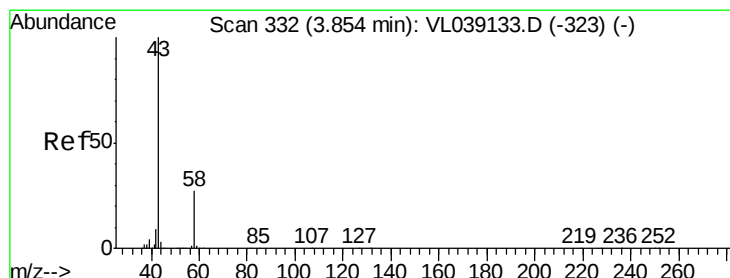
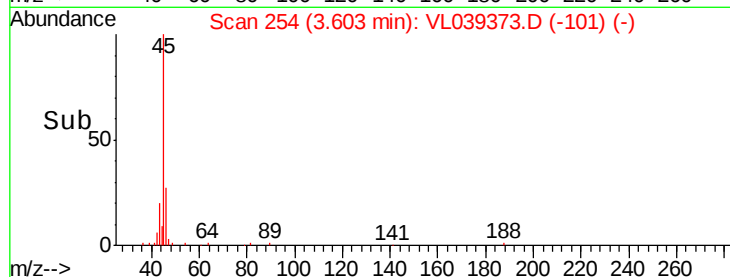
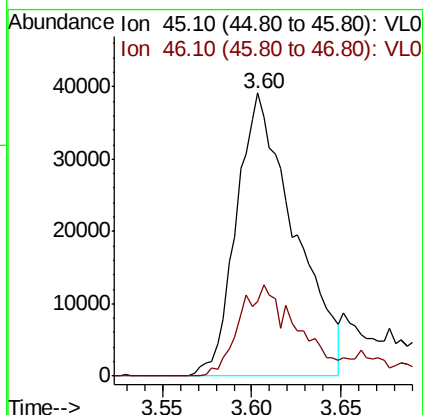
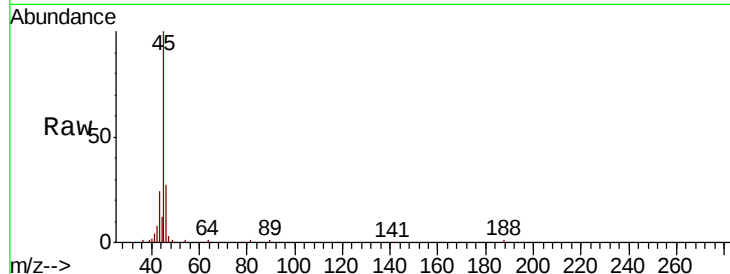
57 181.1 41.4 62.2#





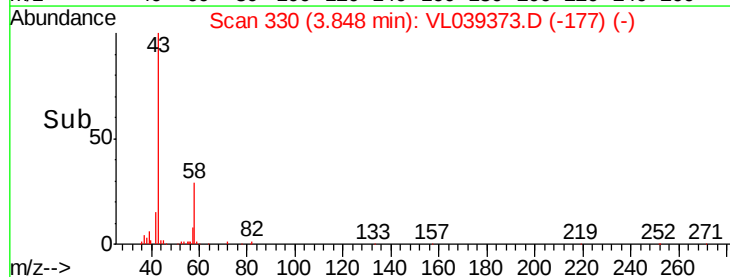
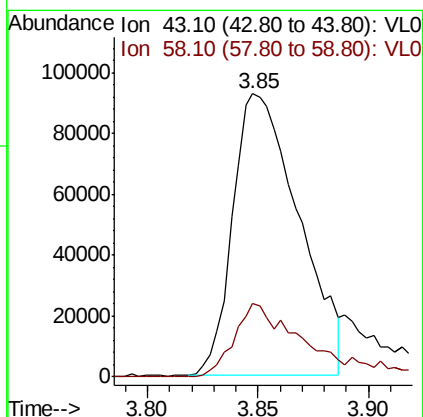
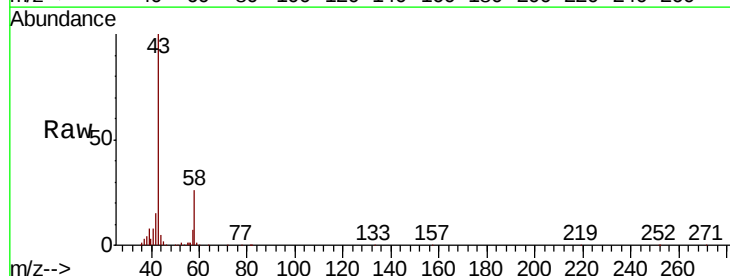
#13
Ethanol
Concen: 31.567 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jun 2022 00:42

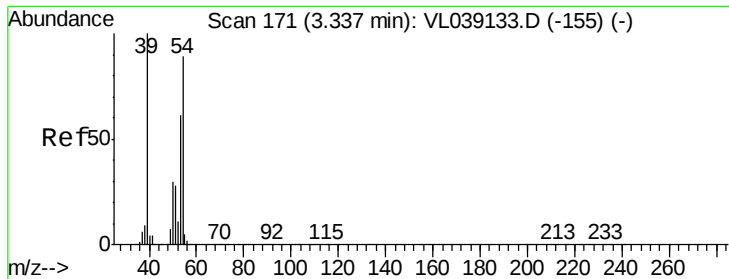
Tot Ion: 45 Resp: 88751
Ion Ratio Lower Upper
45 100
46 32.3 0.0 0.0#



#15
Acetone
Concen: 1.977 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL039373.D
Acq: 28 Jun 2022 00:42

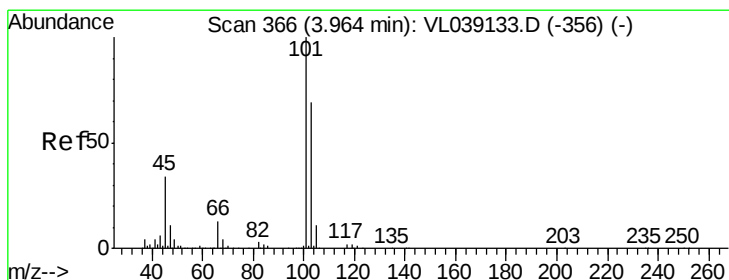
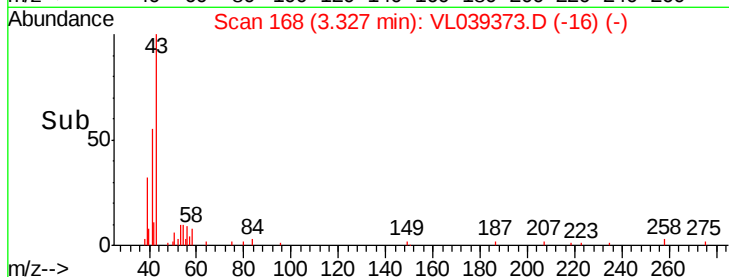
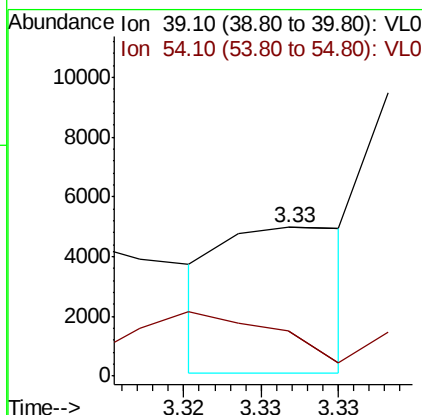
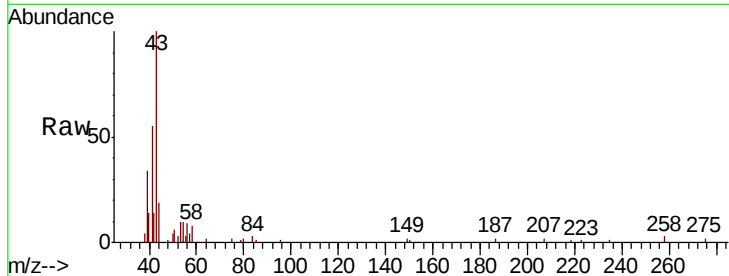
Tgt Ion: 43 Resp: 191348
Ion Ratio Lower Upper
43 100
58 31.0 22.5 33.7





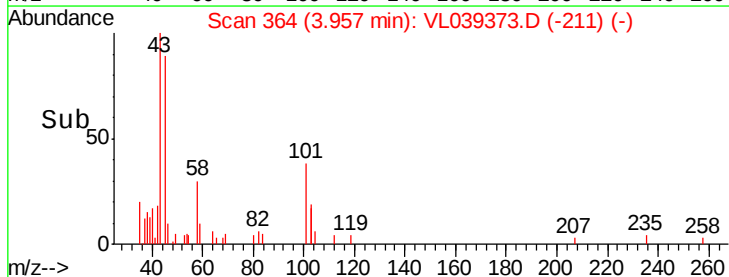
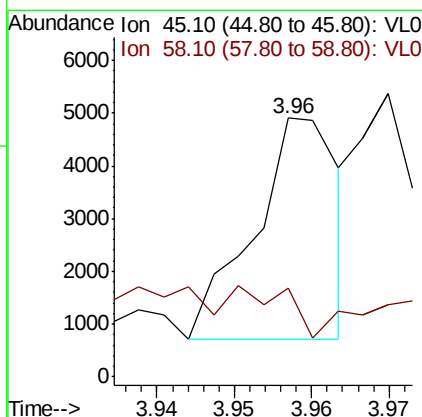
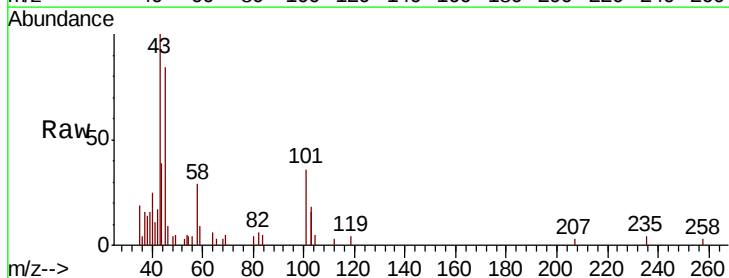
#16
 1,3-Butadiene
 Concen: 0.053 ppbv
 RT: 3.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 28 Jun 2022 00:42

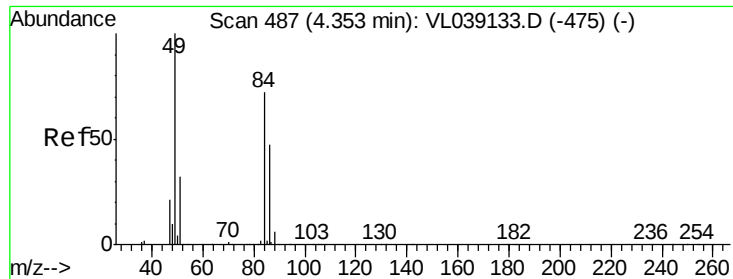
Tot Ion: 39 Resp: 2779
 Ion Ratio Lower Upper
 39 100
 54 153.2 65.8 98.6#



#19
 Isopropyl Alcohol
 Concen: 0.070 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. -0.01 min
 Lab File: VL039373.D
 Acq: 28 Jun 2022 00:42

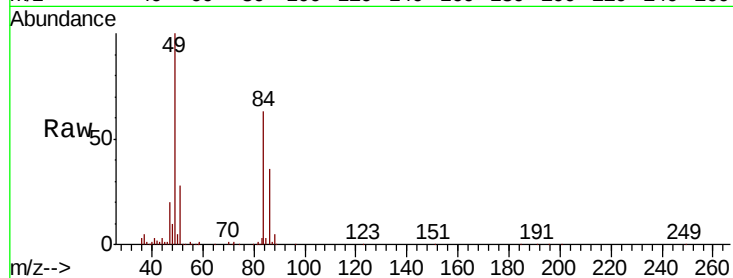
Tgt Ion: 45 Resp: 3169
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#



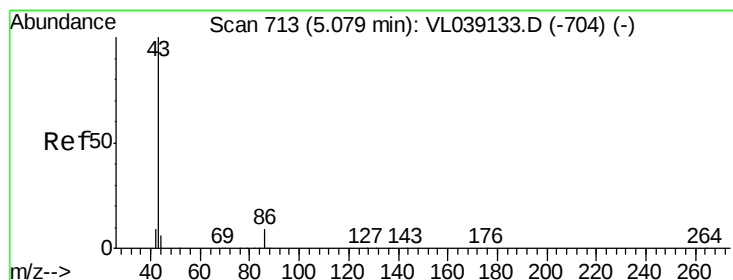
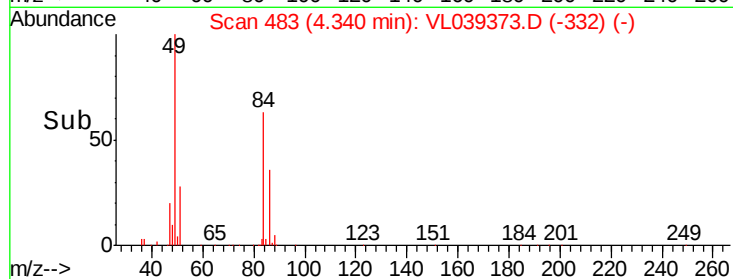
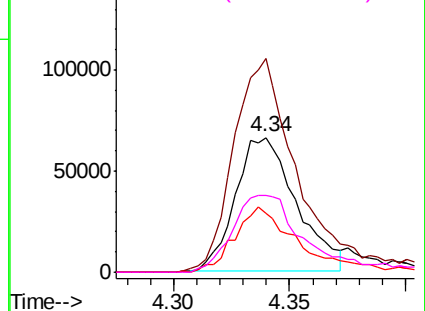


#20
Methvlene Chloride
Concen: 2.929 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 28 Jun 2022 00:42

Tot Ion:	84	Resp:	119471
Ion	Ratio	Lower	Upper
84	100		
49	157.2	111.1	166.7
51	44.1	35.3	52.9
86	57.3	51.9	77.9

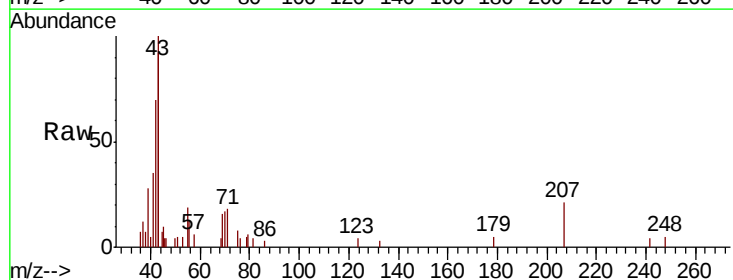


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

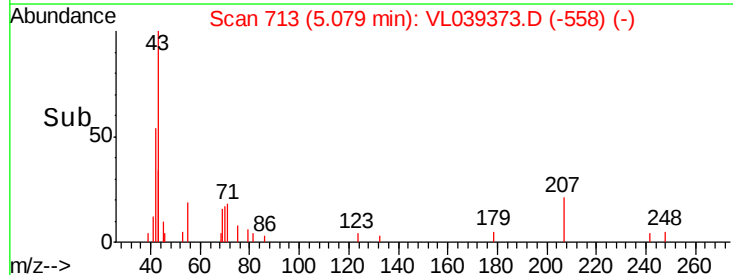
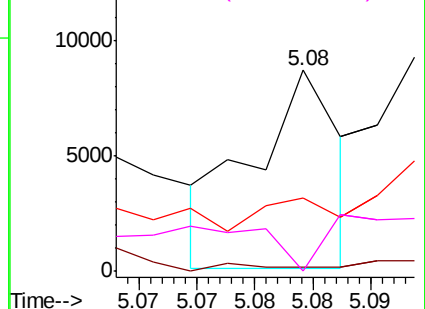


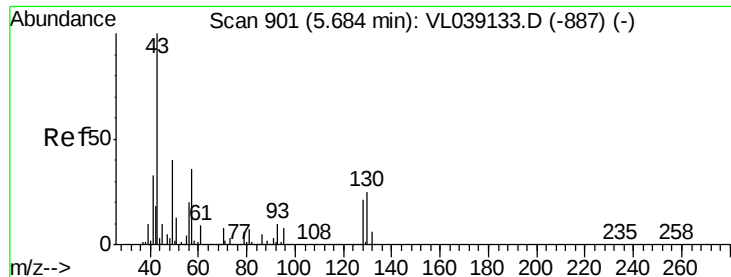
#23
Vinyl Acetate
Concen: 0.056 ppbv
RT: 5.08 min Scan# 713
Delta R.T.: -0.00 min
Lab File: VL039373.D
Acq: 28 Jun 2022 00:42

Tgt Ion:	43	Resp:	4505
Ion	Ratio	Lower	Upper
43	100		
86	3.1	6.0	9.0#
42	17.4	8.2	12.4#
44	0.0	4.3	6.5#



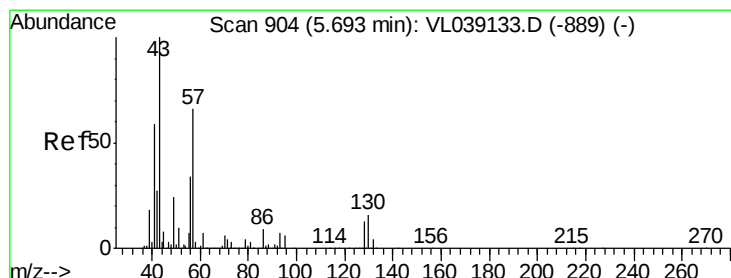
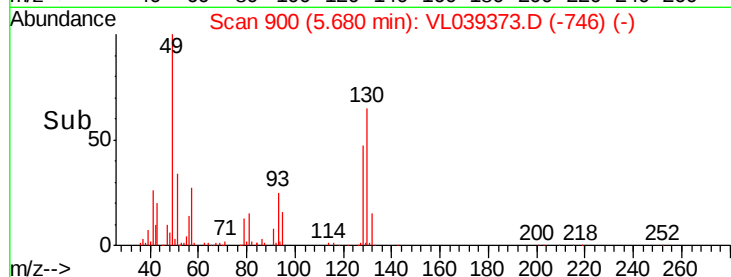
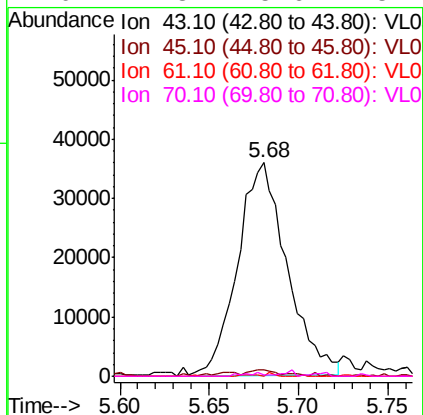
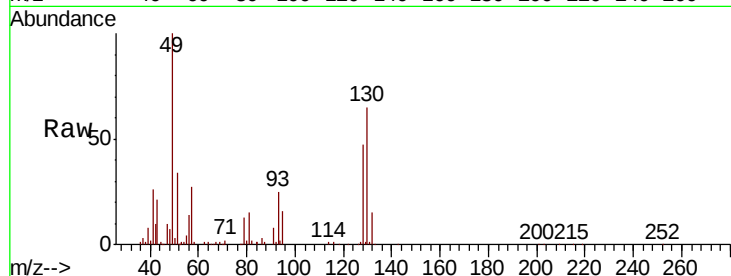
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





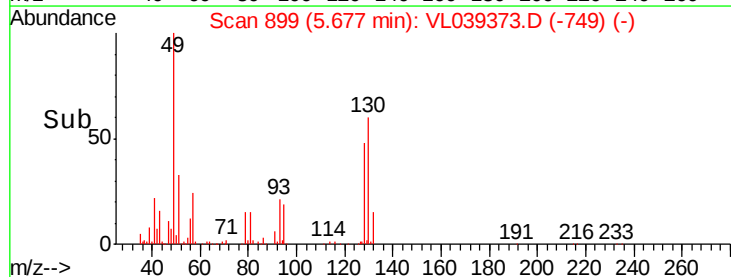
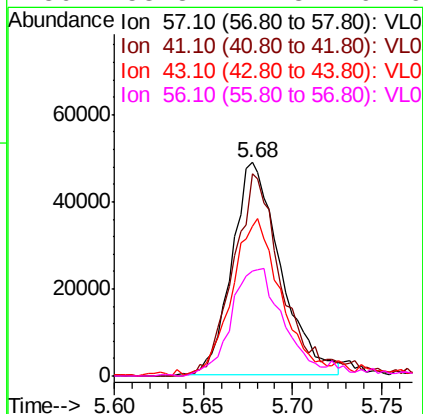
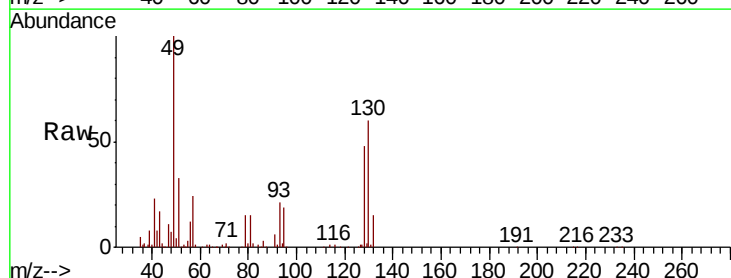
#25
Ethyl Acetate
Concen: 0.317 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jun 2022 00:42

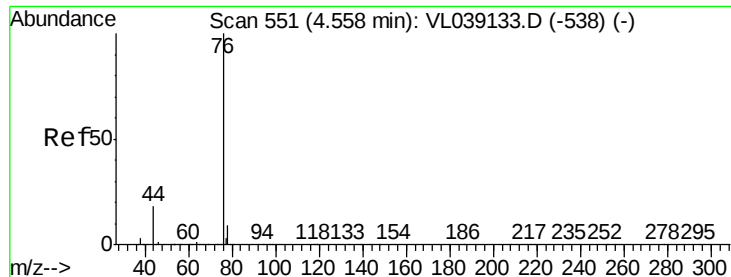
Tot Ion:	43	Resp:	69164
Ion	Ratio	Lower	Upper
43	100		
45	3.3	8.2	12.2#
61	0.6	8.4	12.6#
70	1.8	5.6	8.4#



#26
Hexane
Concen: 0.971 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL039373.D
Acq: 28 Jun 2022 00:42

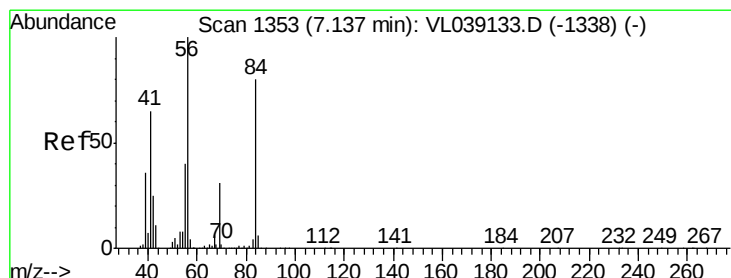
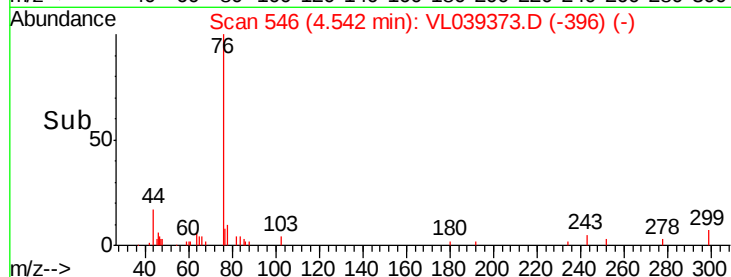
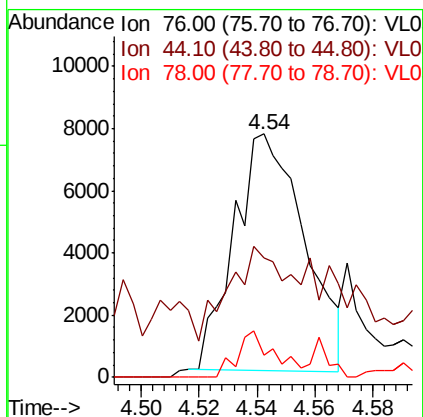
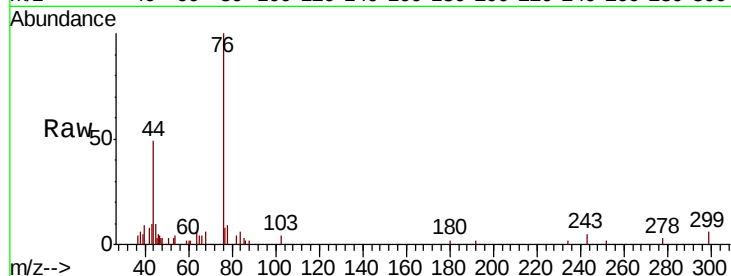
Tgt Ion:	57	Resp:	93126
Ion	Ratio	Lower	Upper
57	100		
41	97.3	72.4	108.6
43	80.2	187.0	280.6#
56	58.8	41.8	62.6





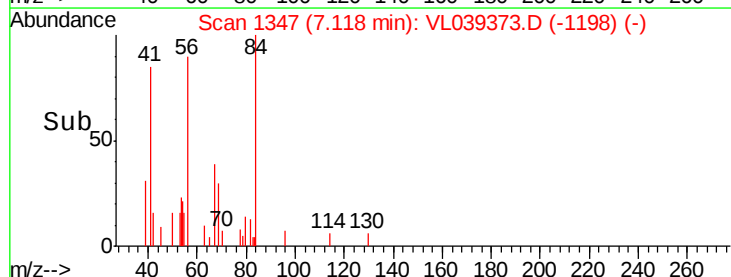
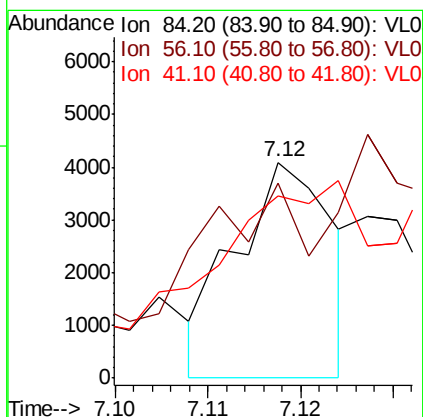
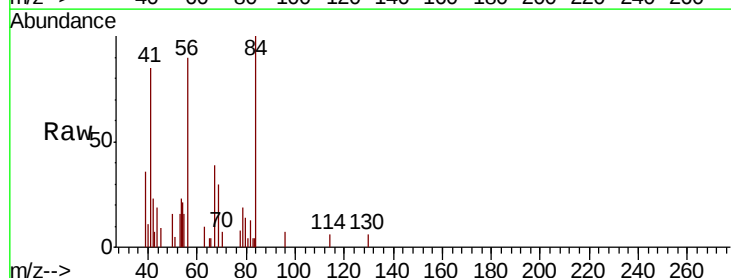
#27
Carbon Disulfide
Concen: 0.129 ppbv
RT: 4.54
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jun 2022 00:42

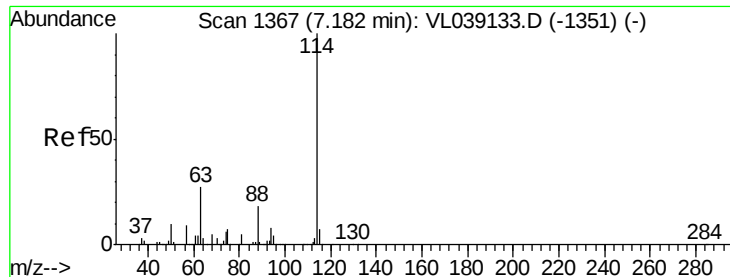
Tot Ion	Ratio	Lower	Upper
76	100		
44	37.6	14.4	21.6#
78	14.6	7.7	11.5#



#30
Cyclohexane
Concen: 0.037 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL039373.D
Acq: 28 Jun 2022 00:42

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	110.6	165.8#
41	0.0	68.9	103.3#

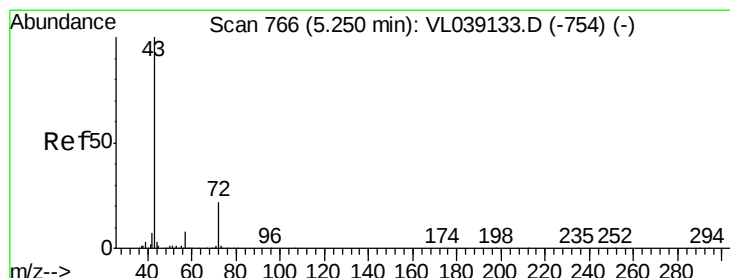
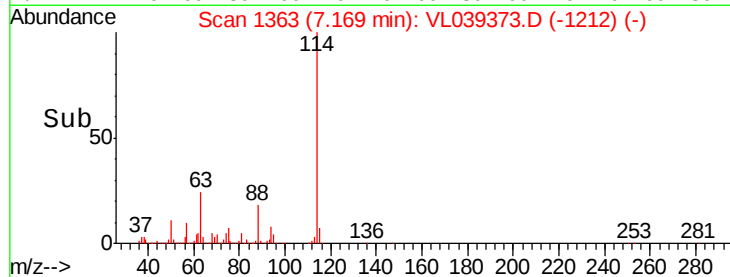
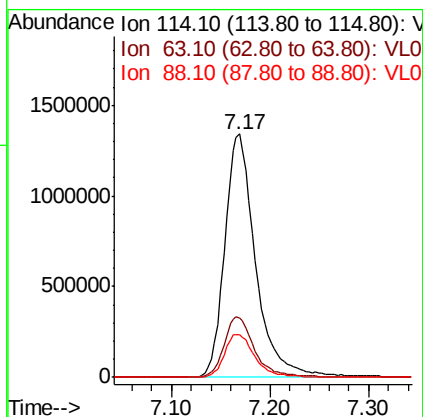
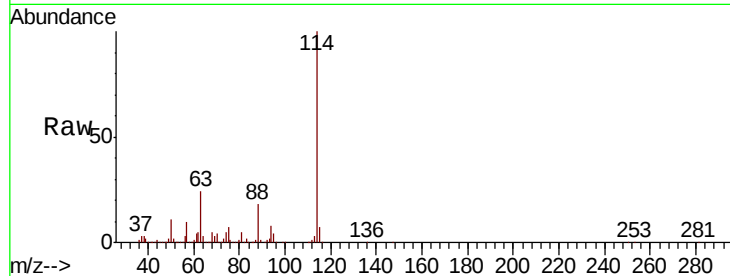




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Jun 2022 00:42

Tot Ion:114 Resp: 2920794

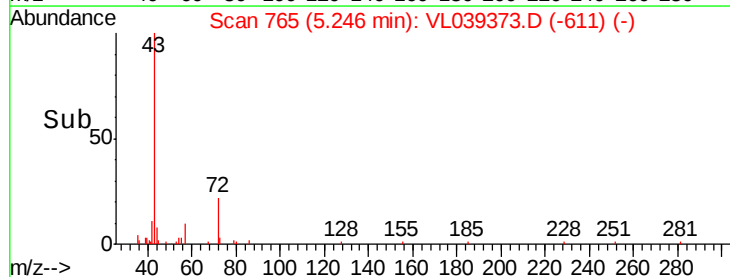
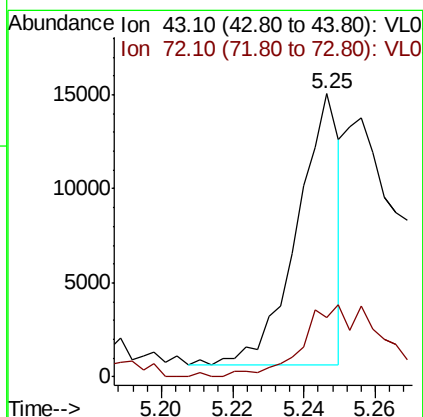
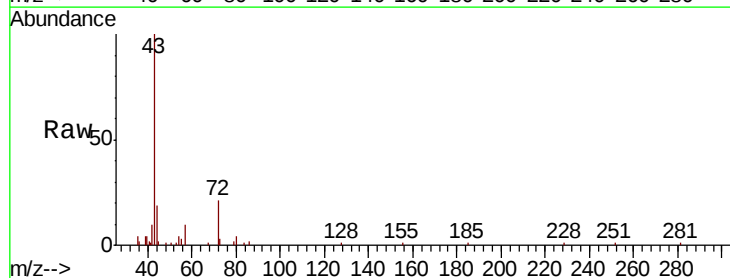
Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.7	32.5
88	18.1	14.8	22.2

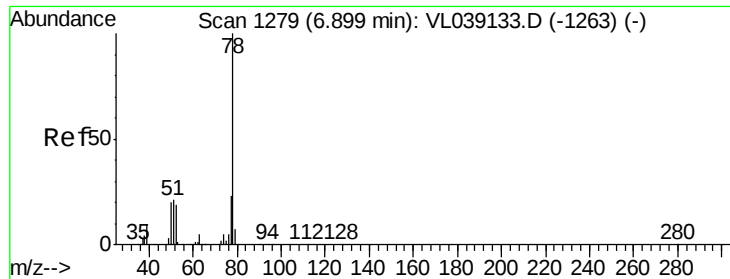


#34
 2-Butanone
 Concen: 0.075 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VL039373.D
 Acq: 28 Jun 2022 00:42

Tgt Ion: 43 Resp: 11978

Ion	Ratio	Lower	Upper
43	100		
72	57.7	18.2	27.2#





#36

Benzene

Concen: 0.174 ppbv

RT: 6.88 Instrument: MSVOA_1

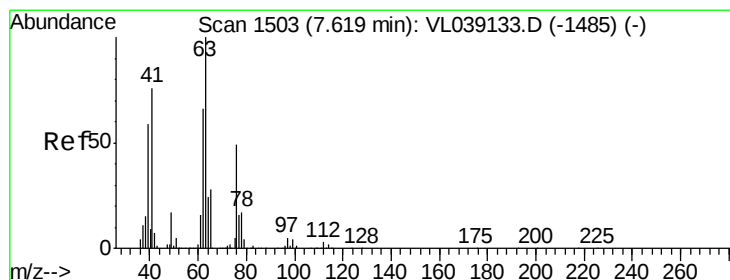
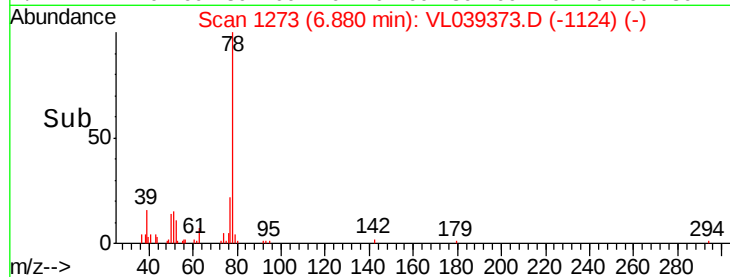
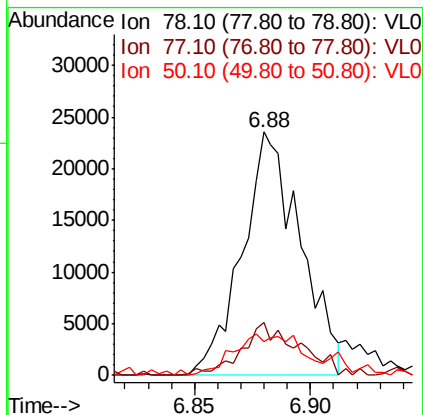
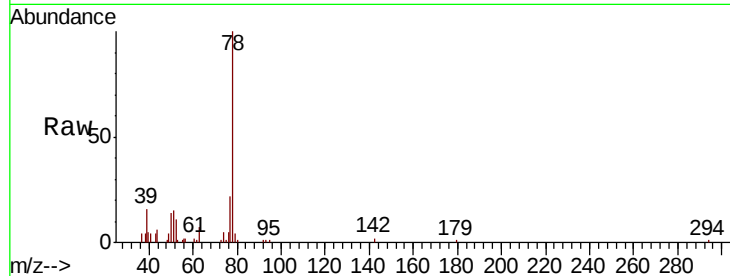
Delta R.T.

Lab File: ClientSampleId:

Acq: 28 Jun 2022 00:42

Tot Ion: 78 Resp: 41169

Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.6	27.8
50	13.8	15.8	23.8#



#39

1,2-Dichloropropane

Concen: 0.130 ppbv

RT: 7.22 min Scan# 1379

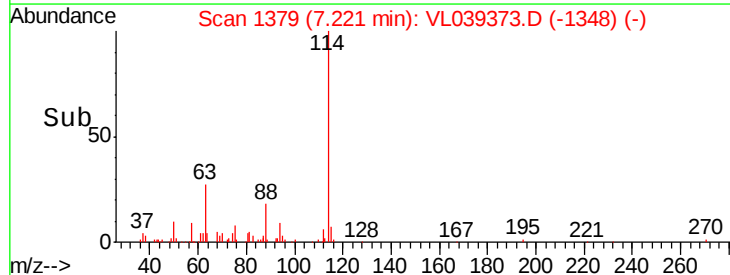
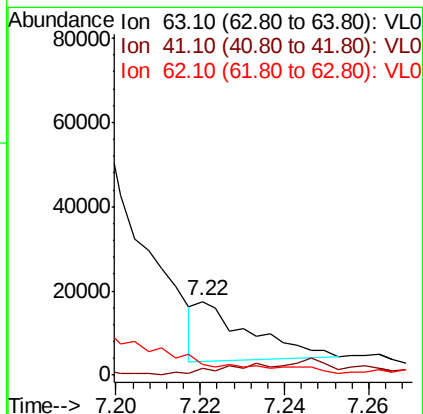
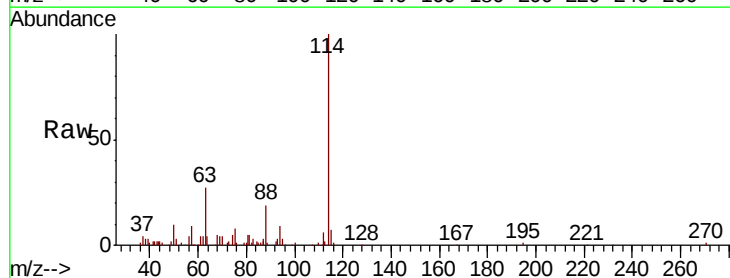
Delta R.T. -0.40 min

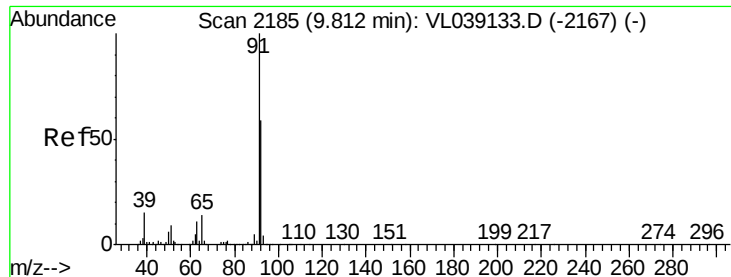
Lab File: VL039373.D

Acq: 28 Jun 2022 00:42

Tgt Ion: 63 Resp: 12271

Ion	Ratio	Lower	Upper
63	100		
41	7.3	60.8	91.2#
62	13.3	52.9	79.3#





#53

Toluene

Concen: 0.589 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

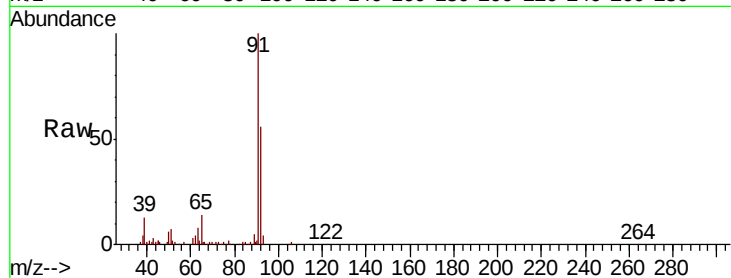
Acq: 28 Jun 2022 00:42 SG-1

Tot Ion: 91 Resp: 160881

Ion Ratio Lower Upper

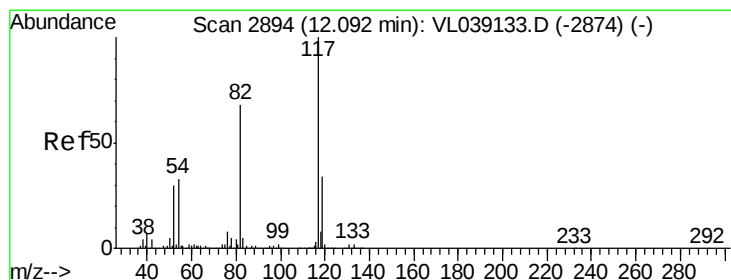
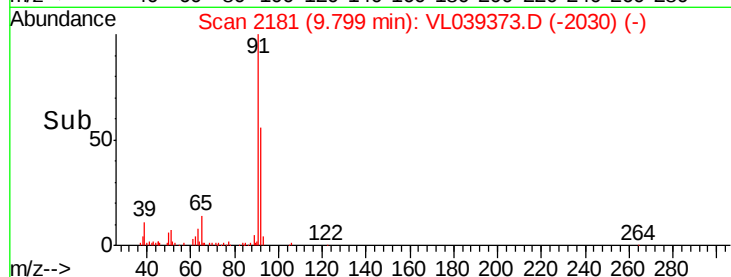
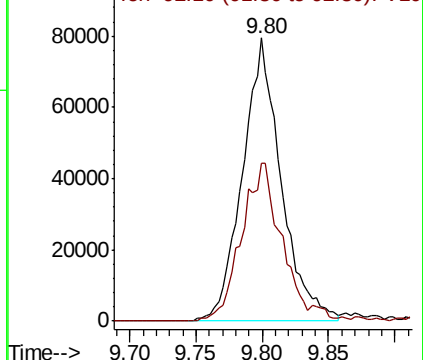
91 100

92 59.8 48.1 72.1



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: 12.08 min Scan# 2889

Delta R.T. -0.02 min

Lab File: VL039373.D

Acq: 28 Jun 2022 00:42

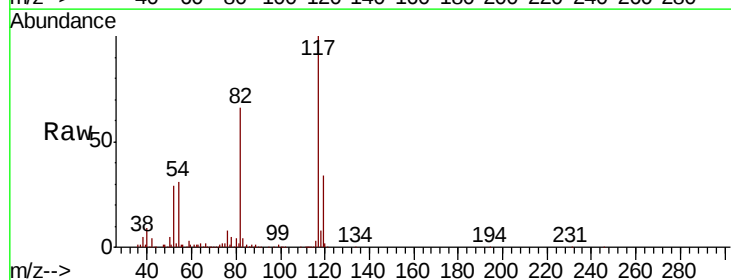
Tgt Ion: 117 Resp: 2552098

Ion Ratio Lower Upper

117 100

82 66.8 55.1 82.7

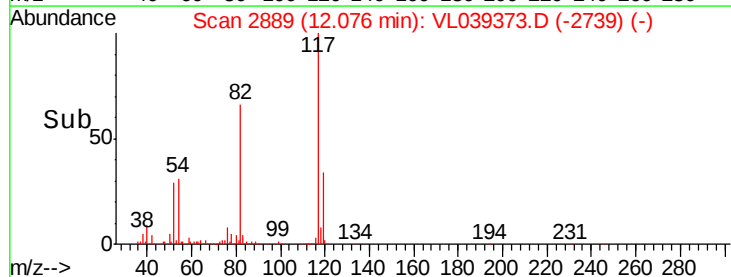
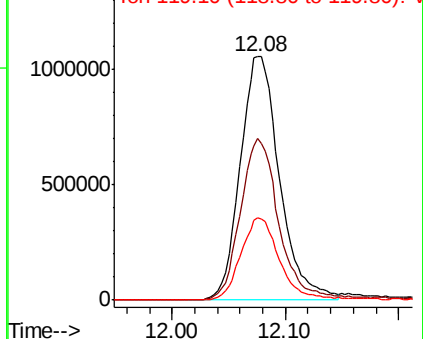
119 34.1 24.7 37.1

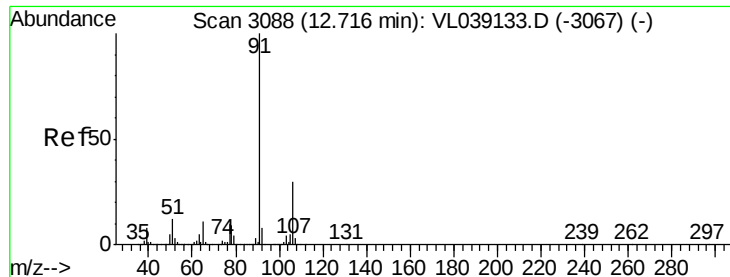


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.074 ppbv

RT: 12.70 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

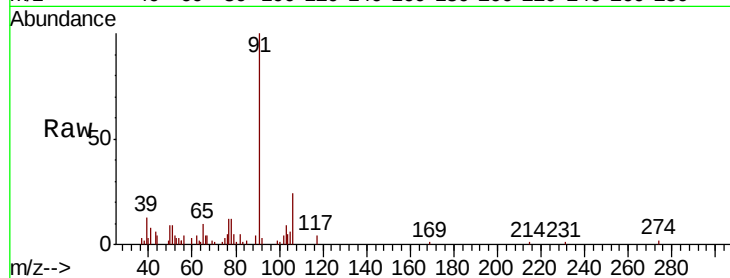
Acq: 28 Jun 2022 00:42

Tot Ion: 91 Resp: 25906

Ion Ratio Lower Upper

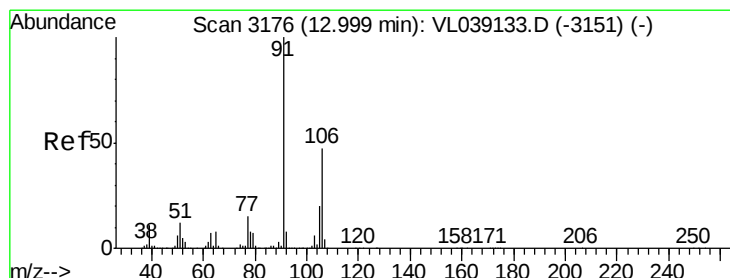
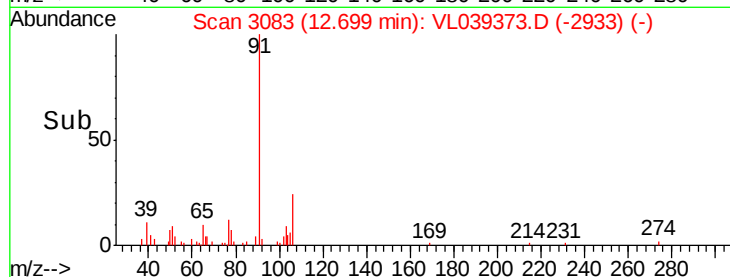
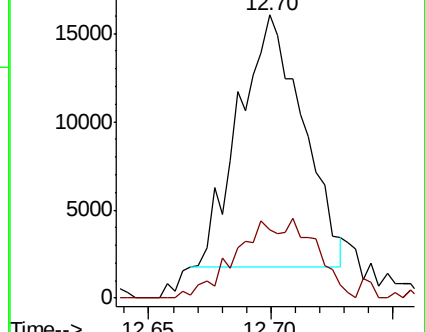
91 100

106 25.7 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.088 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. -0.01 min

Lab File: VL039373.D

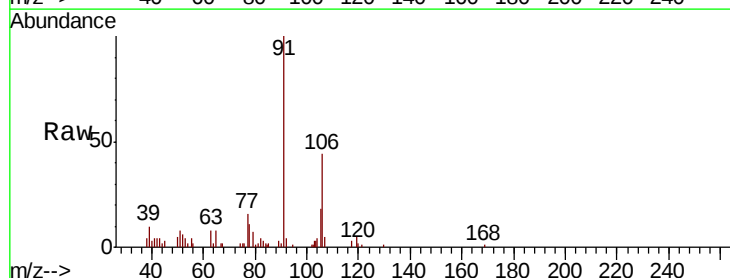
Acq: 28 Jun 2022 00:42

Tgt Ion: 91 Resp: 27122

Ion Ratio Lower Upper

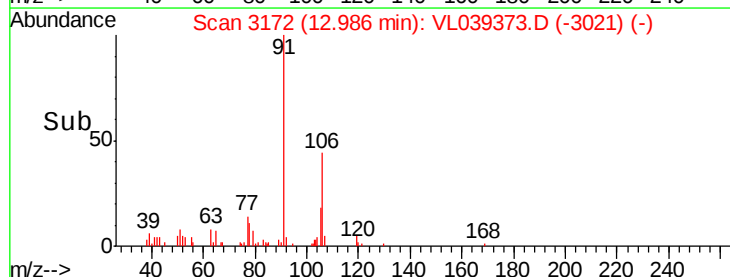
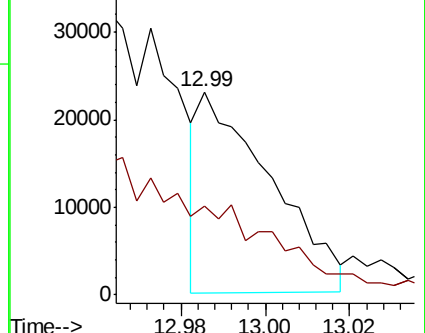
91 100

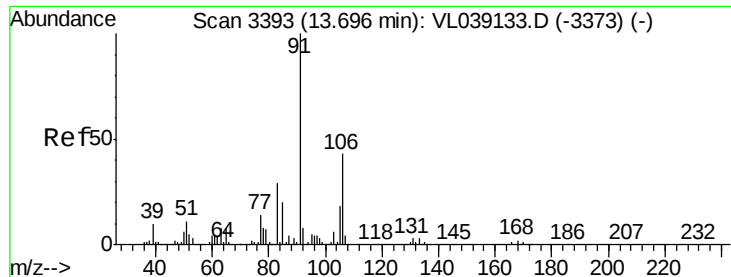
106 0.0 34.3 51.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

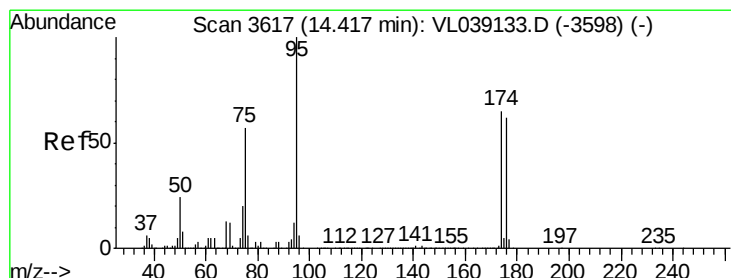
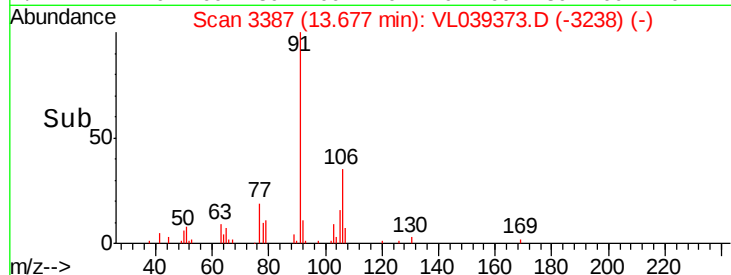
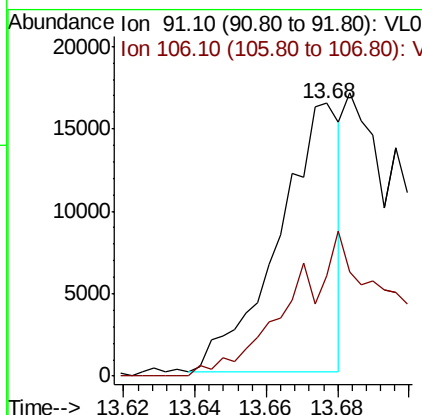
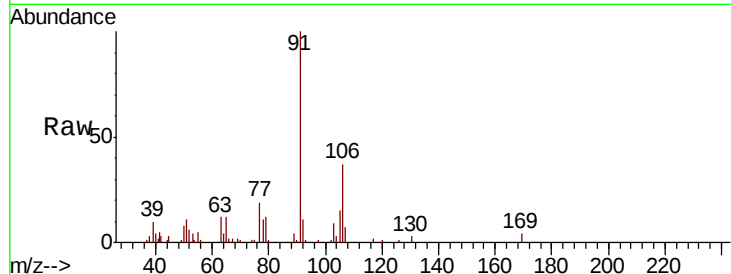
Ion 106.10 (105.80 to 106.80): V





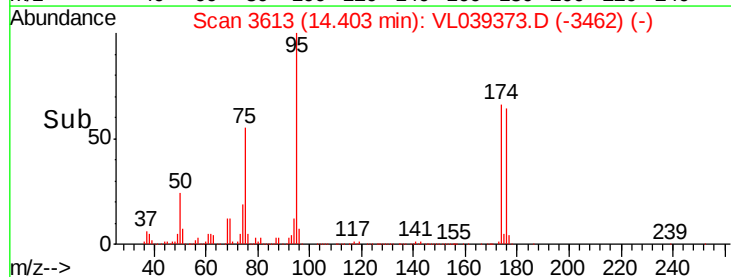
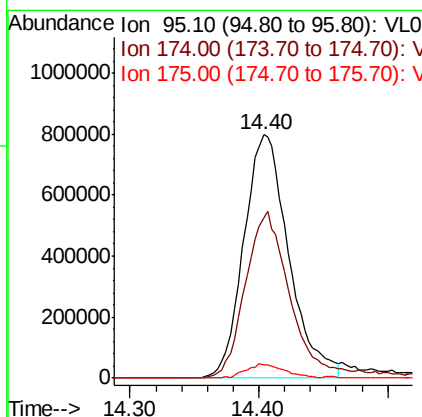
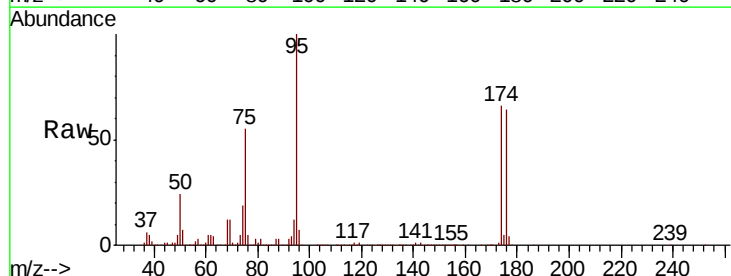
#60
o-Xylene
Concen: 0.067 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jun 2022 00:42

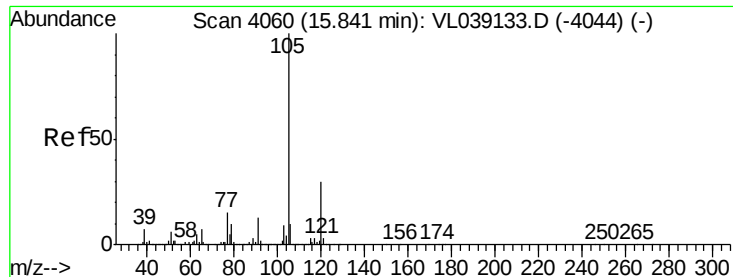
Tot Ion: 91 Resp: 19501
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.187 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. -0.01 min
Lab File: VL039373.D
Acq: 28 Jun 2022 00:42

Tgt Ion: 95 Resp: 1938325
Ion Ratio Lower Upper
95 100
174 71.6 53.8 80.8
175 5.0 4.1 6.1





#72

4-Ethyltoluene

Concen: 0.059 ppbv

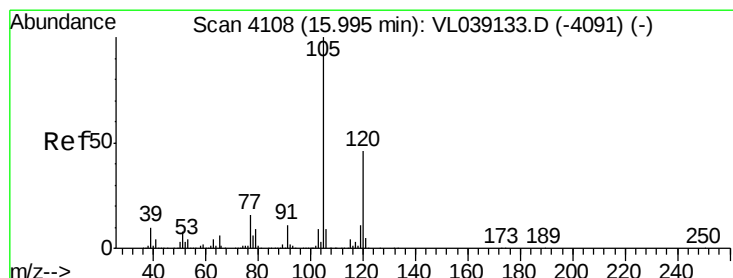
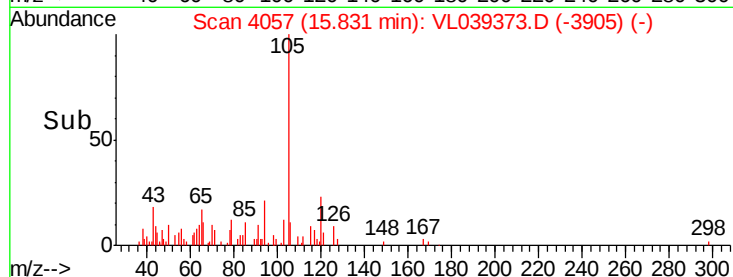
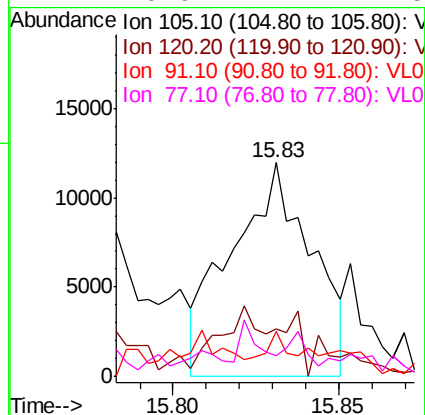
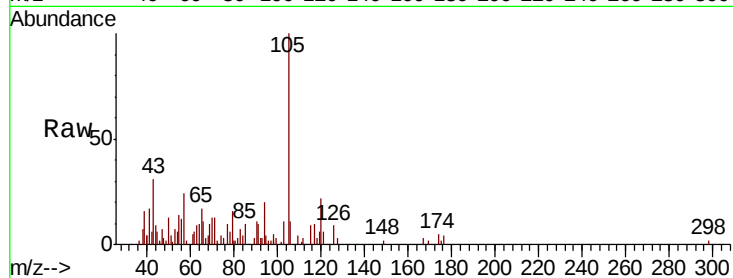
RT: 15.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 28 Jun 2022 00:42

Tot Ion:	105	Resp:	20039
Ion	Ratio	Lower	Upper
105	100		
120	36.6	23.9	35.9#
91	0.0	10.6	16.0#
77	26.6	11.7	17.5#



#73

1,3,5-Trimethylbenzene

Concen: 0.126 ppbv

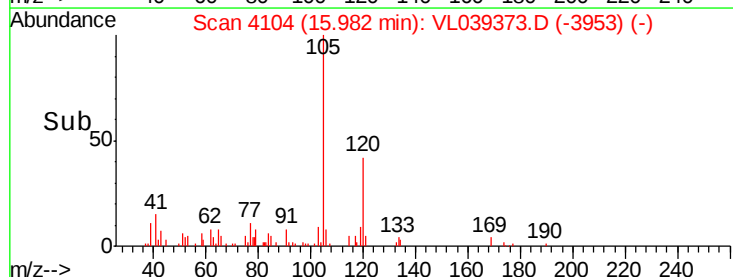
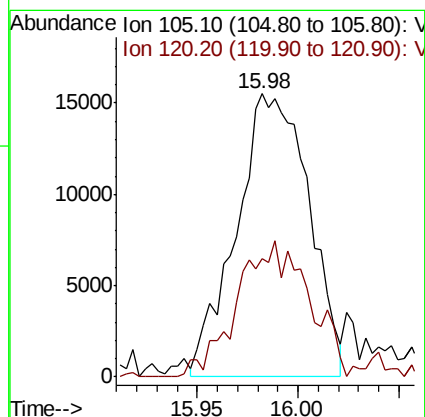
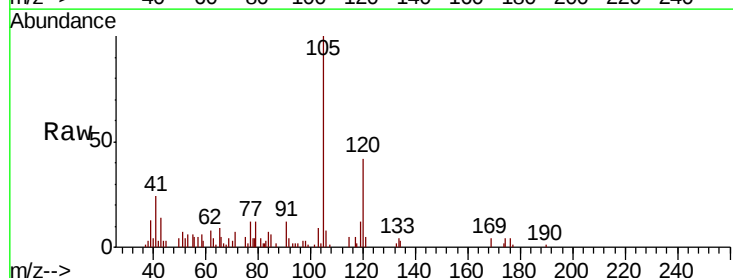
RT: 15.98 min Scan# 4104

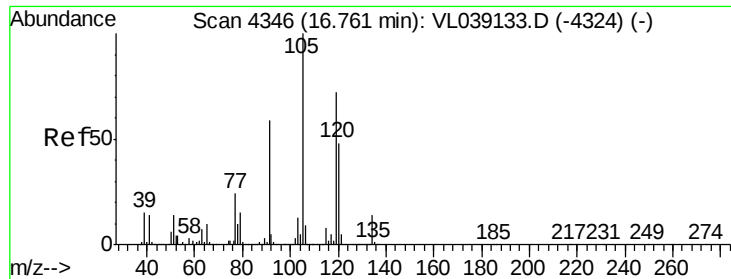
Delta R.T. -0.01 min

Lab File: VL039373.D

Acq: 28 Jun 2022 00:42

Tgt Ion:	105	Resp:	38857
Ion	Ratio	Lower	Upper
105	100		
120	37.0	36.7	55.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.546 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Jun 2022 00.42

Tot Ion:	105	Resp:	187330
Ion	Ratio	Lower	Upper
105	100		
120	33.5	38.1	57.1#
91	10.5	47.4	71.0#
77	13.4	19.5	29.3#

