

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060822\
 Data File : VL039241.D
 Acq On : 8 Jun 2022 19:03
 Operator : SY/AP
 Sample : N3214-13 0.1 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2022

Quant Time: Jun 09 06:40:20 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	5.68	49	1050926	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2448706	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2029341	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1772450	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	29058	0.157 ppbv	95
3) Chlorodifluoromethane	3.00	51	17200	0.129 ppbv #	86
4) Chloromethane	3.15	50	7806	0.114 ppbv	89
5) Vinyl Chloride	3.27	62	7666	0.119 ppbv #	67
6) Bromomethane	3.48	94	3573	0.113 ppbv #	62
7) Chloroethane	3.57	64	1679	0.075 ppbv #	62
8) Dichlorotetrafluoroethane	3.20	85	20951	0.124 ppbv	89
10) Heptane	8.13	43	10248	0.075 ppbv	87
11) Trichlorofluoromethane	3.96	101	14773	0.088 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.50	101	4031	0.036 ppbv #	1
13) Ethanol	3.63	45	643	0.202 ppbv #	100
14) Bromoethene	3.76	108	1811	0.036 ppbv #	1
15) Acetone	3.88	43	17126	0.156 ppbv #	47
16) 1,3-Butadiene	3.34	39	5357	0.091 ppbv #	63
17) tert-Butyl alcohol	4.32	59	5251	0.062 ppbv #	53
18) 1,1-Dichloroethene	4.29	96	4522	0.091 ppbv	83
20) Methylene Chloride	4.36	84	10293	0.223 ppbv #	84
21) Allyl Chloride	4.43	41	5280	0.071 ppbv #	1
22) trans-1,2-Dichloroethene	4.90	96	2854	0.060 ppbv #	42
24) 1,1-Dichloroethane	5.02	63	3859	0.031 ppbv #	89
25) Ethyl Acetate	5.70	43	18004	0.073 ppbv #	76
26) Hexane	5.69	57	6435	0.059 ppbv #	1
27) Carbon Disulfide	4.56	76	5906	0.053 ppbv #	3
29) Chloroform	5.76	83	18876	0.103 ppbv	89
30) Cyclohexane	7.14	84	3310	0.036 ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	7731	0.070 ppbv #	69
32) 1,1,1-Trichloroethane	6.51	97	7501	0.042 ppbv #	1
35) Carbon Tetrachloride	7.03	117	16959	0.095 ppbv #	87
36) Benzene	6.91	78	7195	0.036 ppbv #	89
37) 1,2-Dichloroethane	6.32	62	7937	0.061 ppbv #	86
39) 1,2-Dichloropropane	7.24	63	7592	0.096 ppbv #	30
42) Bromodichloromethane	7.80	83	9260	0.051 ppbv #	97
43) Methyl Methacrylate	8.02	69	2934	0.038 ppbv #	1
44) 2,2,4-Trimethylpentane	7.88	57	18511	0.053 ppbv #	41
46) cis-1,3-Dichloropropene	8.72	75	3417	0.032 ppbv #	43
52) Tetrachloroethene	11.23	164	4824	0.062 ppbv #	76
54) 1,2-Dibromoethane	10.62	107	5638	0.051 ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.13	131	4711	0.049 ppbv #	1
57) Chlorobenzene	12.15	112	12223	0.080 ppbv #	86
58) Ethyl Benzene	13.00	91	9771	0.035 ppbv	90
59) m/p-Xylene	13.00	91	9771	0.040 ppbv #	33

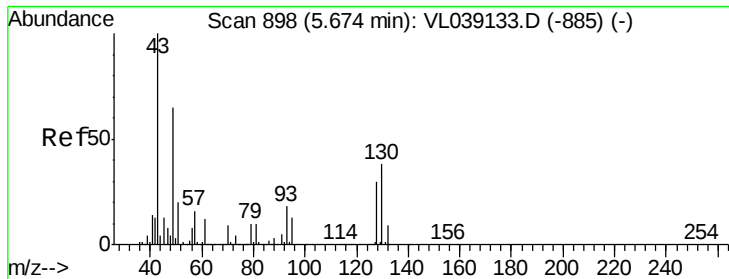
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060822\
 Data File : VL039241.D
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 Operator : SY/AP
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 LOD-MDL-AIR-01-QT2-2022

Quant Time: Jun 09 06:40:20 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)
60) o-Xylene	13.70	91	9594	0.041	ppbv #	31
62) Isopropylbenzene	14.67	105	17475	0.051	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	13.68	83	7107	0.055	ppbv #	23
65) tert-Butylbenzene	16.75	119	10930	0.035	ppbv #	1
67) sec-Butylbenzene	17.29	105	14980	0.035	ppbv #	59
69) p-Isopropyltoluene	17.66	119	13819	0.038	ppbv #	39
71) 2-Chlorotoluene	15.46	91	25464	0.097	ppbv	95
74) 1,2,4-Trimethylbenzene	16.77	105	21339	0.078	ppbv #	84
76) 1,4-Dichlorobenzene	17.15	146	8929	0.058	ppbv #	43
77) 1,2-Dichlorobenzene	17.82	146	8462	0.054	ppbv #	31

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: LOD-MDL-AIR-01-OT2-2022

Acq: 8 Jun 2022 19:05

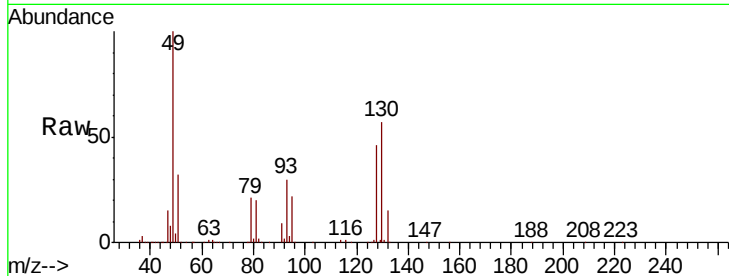
Tot Ion: 49 Resp: 1050926

Ion Ratio Lower Upper

49 100

128 46.8 24.7 74.1

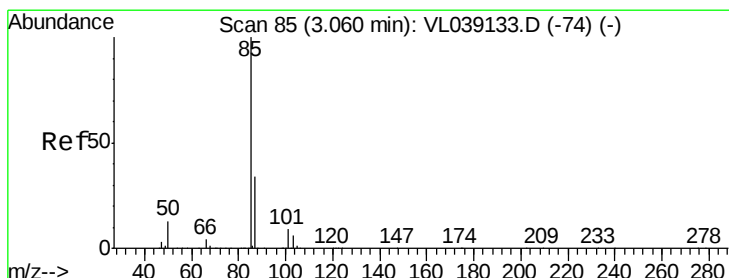
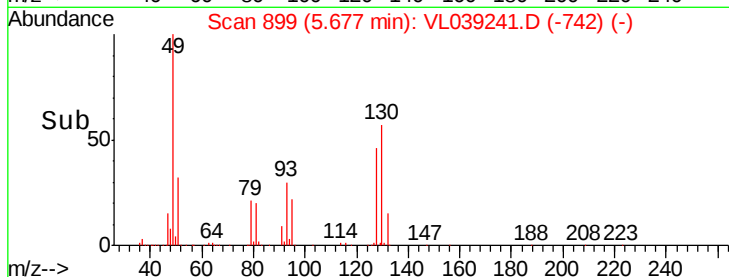
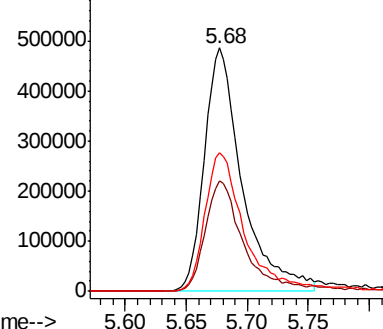
130 61.3 31.4 94.0



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



#2

Dichlorodifluoromethane

Concen: 0.157 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.00 min

Lab File: VL039241.D

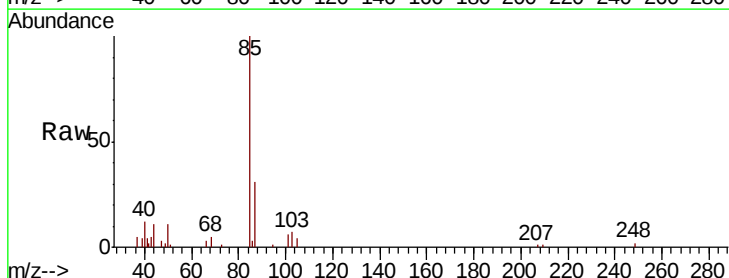
Acq: 8 Jun 2022 19:03

Tgt Ion: 85 Resp: 29058

Ion Ratio Lower Upper

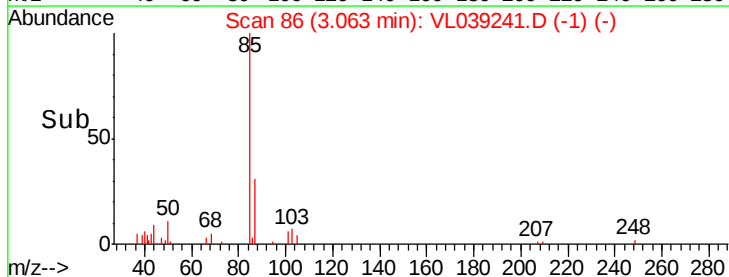
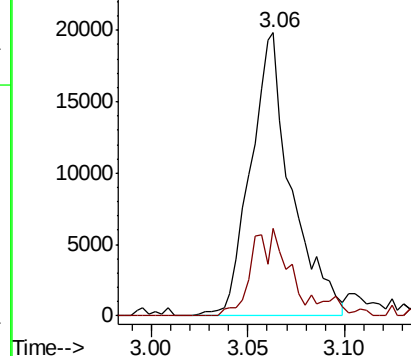
85 100

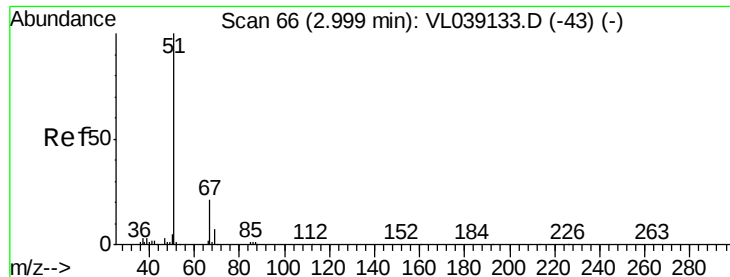
87 30.8 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.129 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

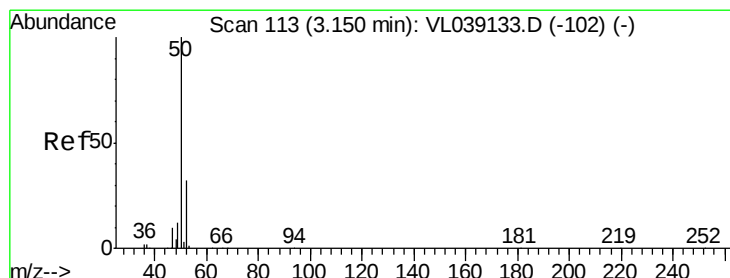
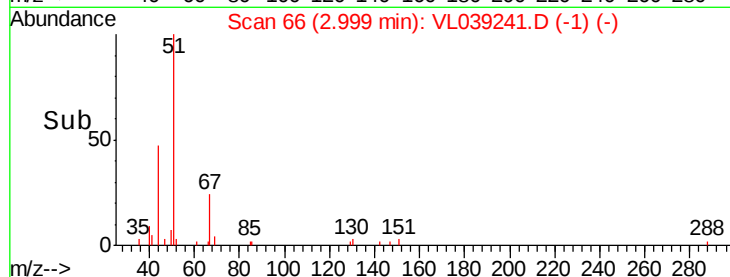
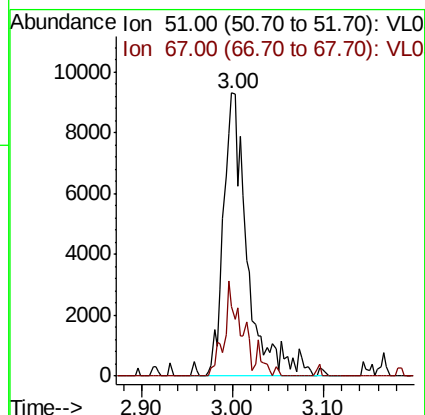
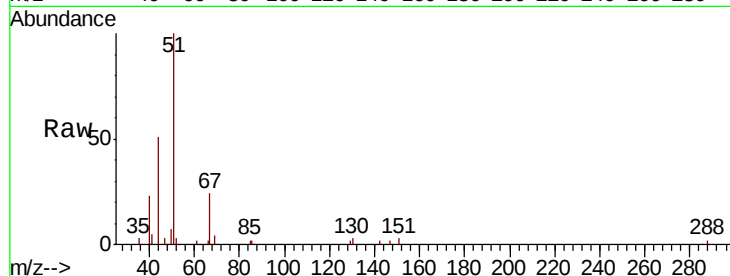
Acq: 8 Jun 2022 19:05

Tot Ion: 51 Resp: 17200

Ion Ratio Lower Upper

51 100

67 26.7 16.2 24.4#



#4

Chloromethane

Concen: 0.114 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL039241.D

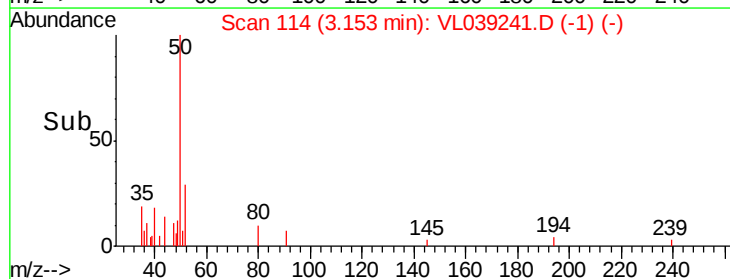
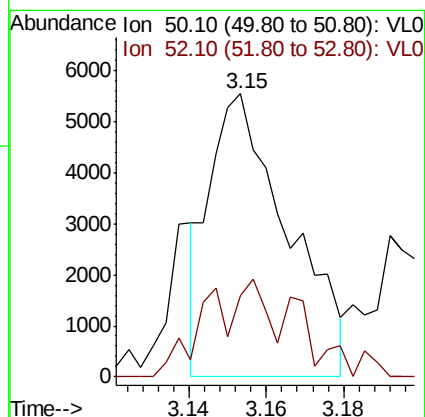
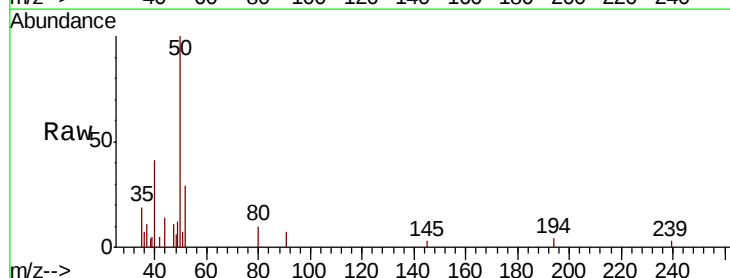
Acq: 8 Jun 2022 19:03

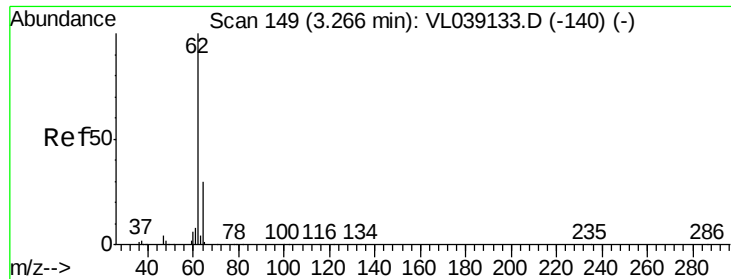
Tgt Ion: 50 Resp: 7806

Ion Ratio Lower Upper

50 100

52 26.4 25.9 38.9





#5

Vinyl Chloride

Concen: 0.119 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

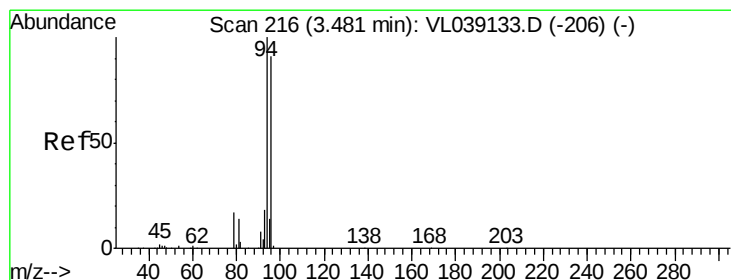
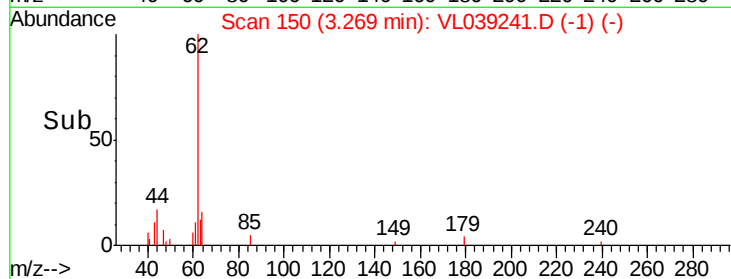
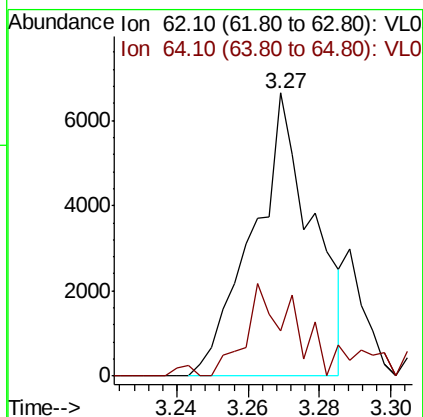
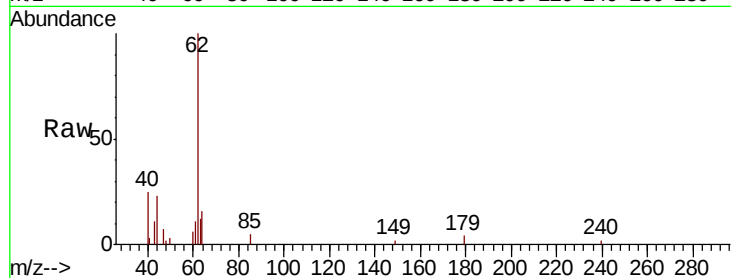
Acq: 8 Jun 2022 19:05

Tot Ion: 62 Resp: 7666

Ion Ratio Lower Upper

62 100

64 12.2 24.2 36.2#



#6

Bromomethane

Concen: 0.113 ppbv

RT: 3.48 min Scan# 217

Delta R.T. 0.00 min

Lab File: VL039241.D

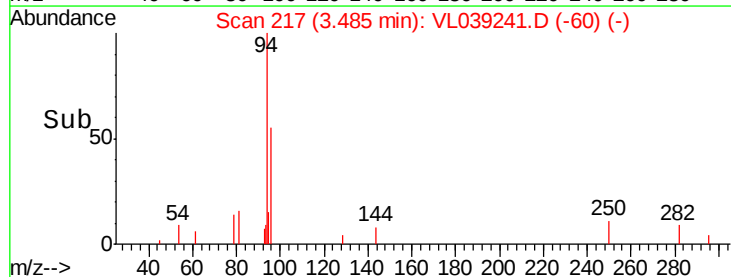
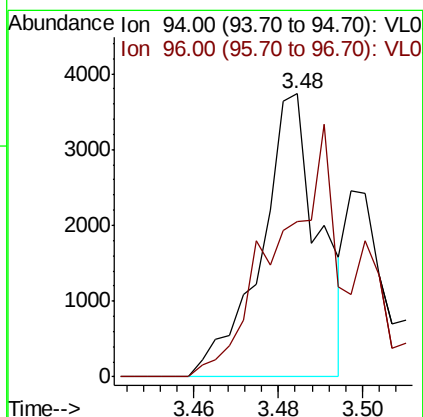
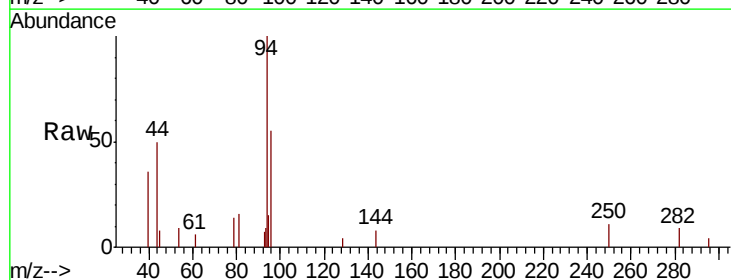
Acq: 8 Jun 2022 19:03

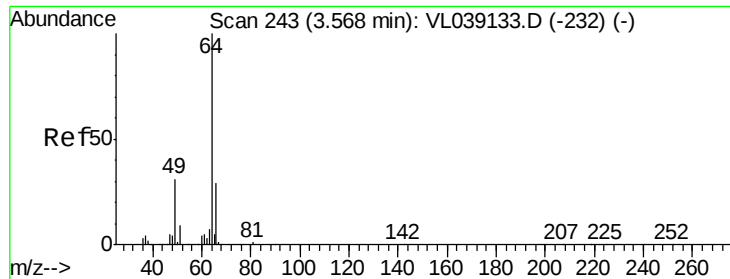
Tgt Ion: 94 Resp: 3573

Ion Ratio Lower Upper

94 100

96 54.7 73.0 109.4#





#7

Chloroethane

Concen: 0.075 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

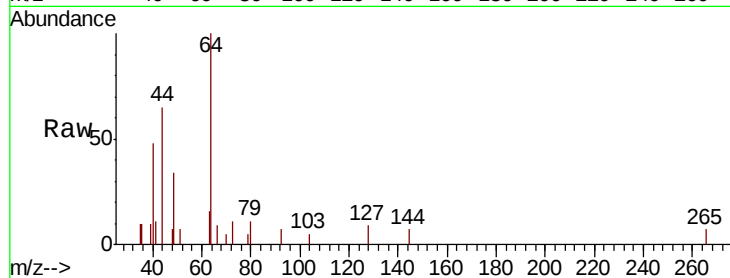
Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-OT2-2022

Tot Ion: 64 Resp: 1679

Ion Ratio Lower Upper

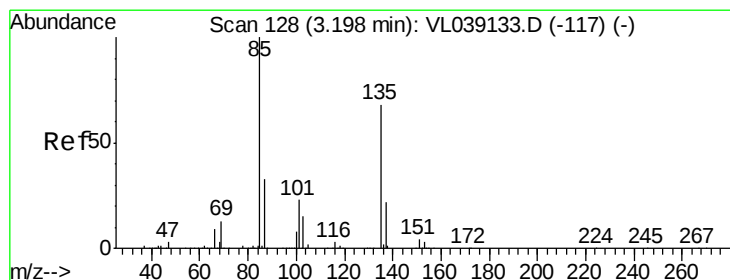
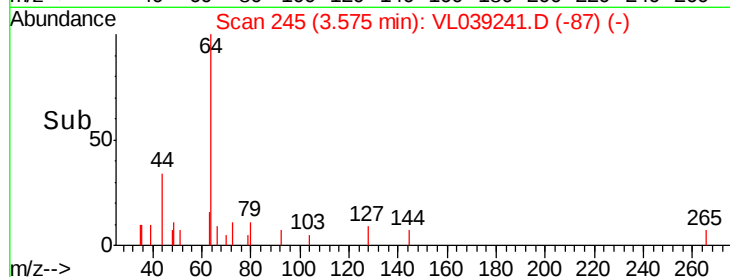
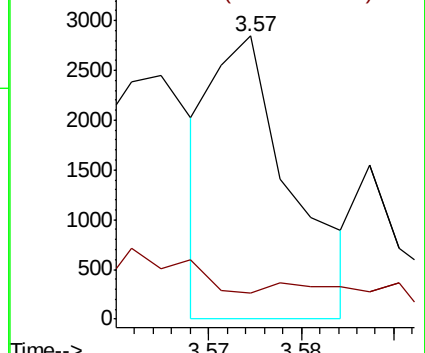
64 100

66 9.3 23.6 35.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.124 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.00 min

Lab File: VL039241.D

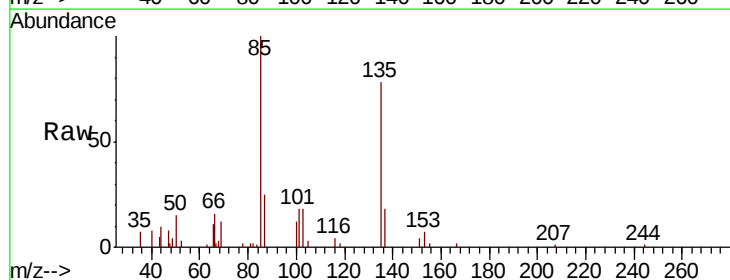
Acq: 8 Jun 2022 19:03

Tgt Ion: 85 Resp: 20951

Ion Ratio Lower Upper

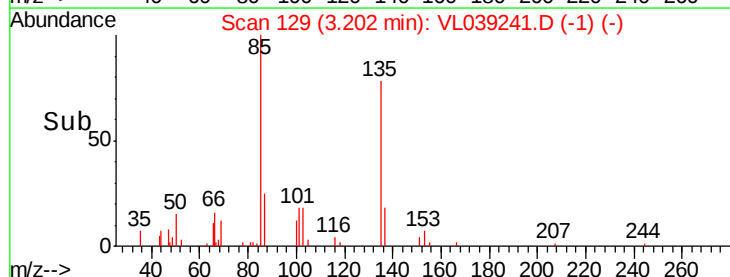
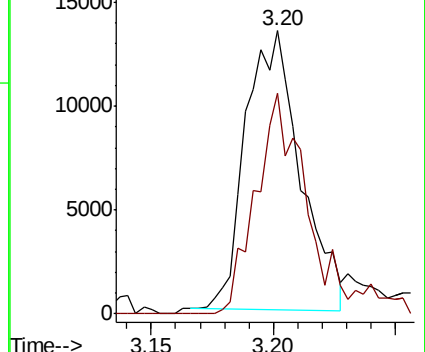
85 100

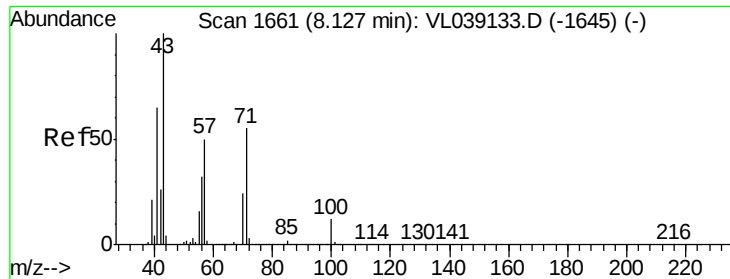
135 77.8 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#10

Heptane

Concen: 0.075 ppbv

RT: 8.13 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

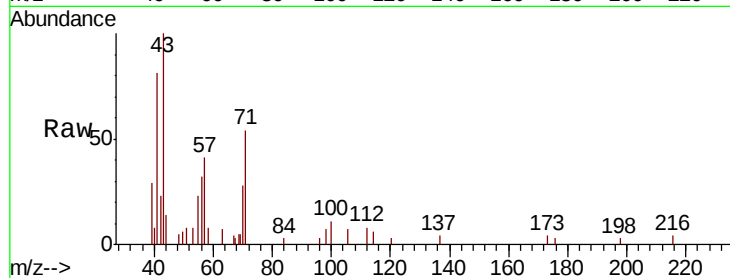
Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-OT2-2022

Tot Ion: 43 Resp: 10248

Ion Ratio Lower Upper

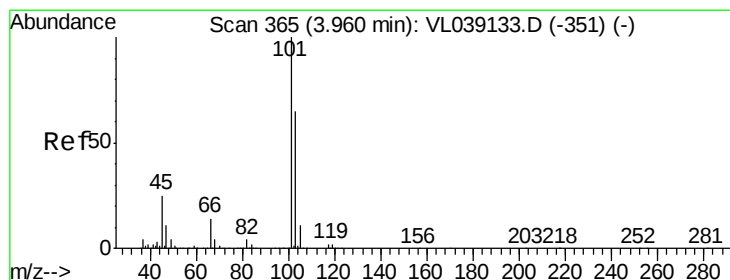
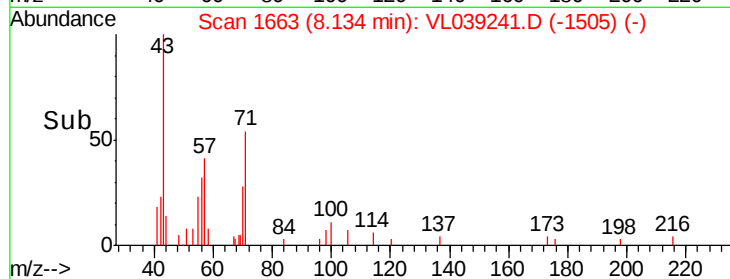
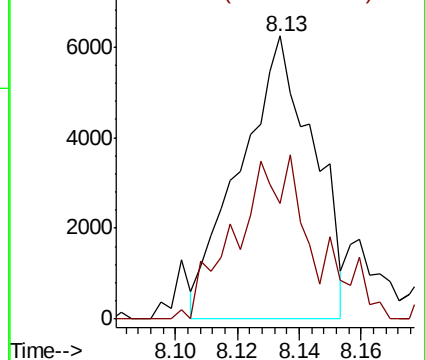
43 100

57 61.1 41.4 62.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.088 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL039241.D

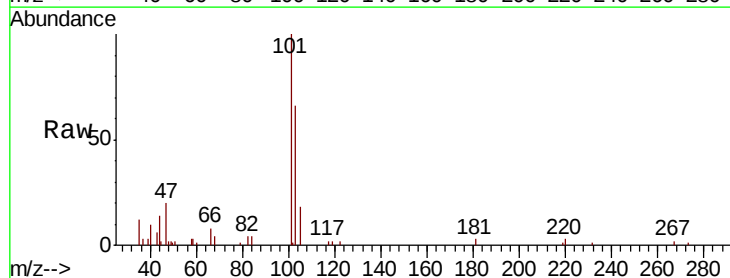
Acq: 8 Jun 2022 19:03

Tgt Ion: 101 Resp: 14773

Ion Ratio Lower Upper

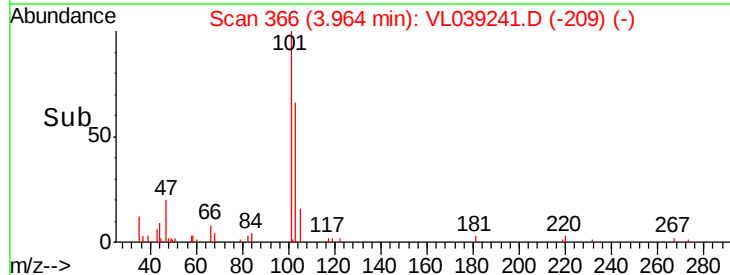
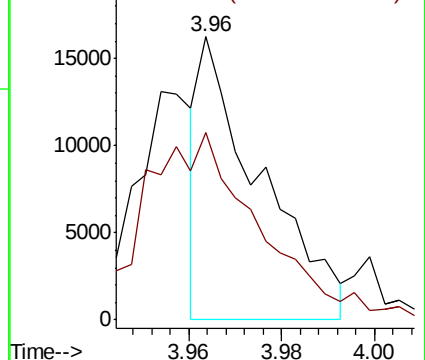
101 100

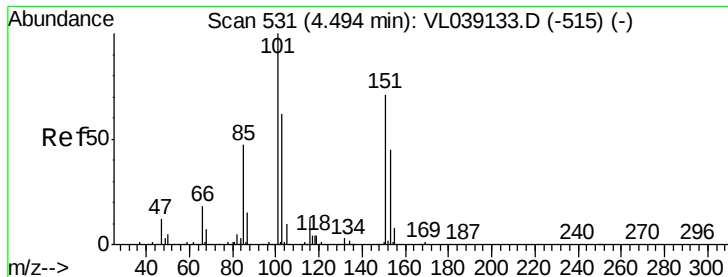
103 68.5 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

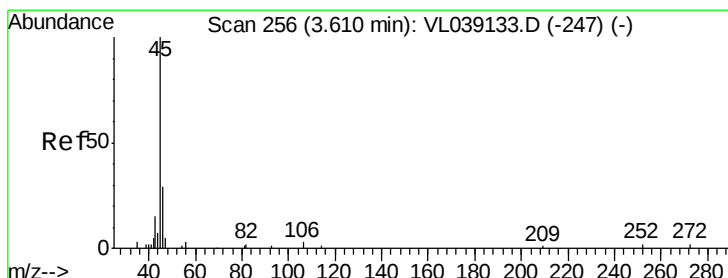
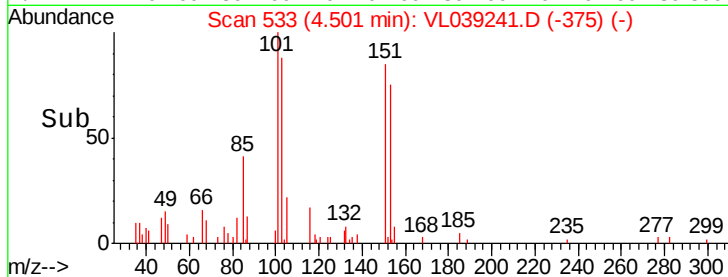
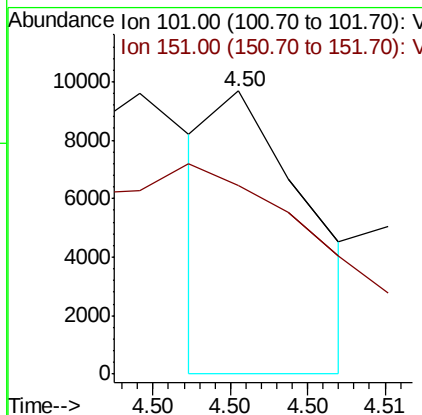
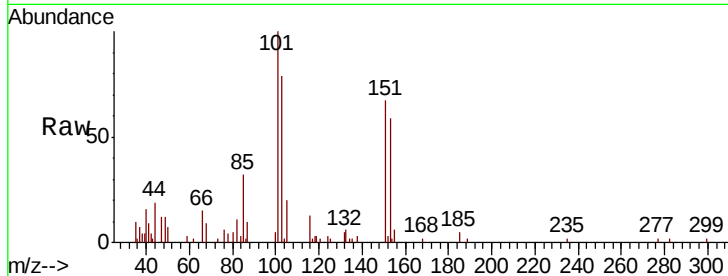
Ion 103.00 (102.70 to 103.70): V





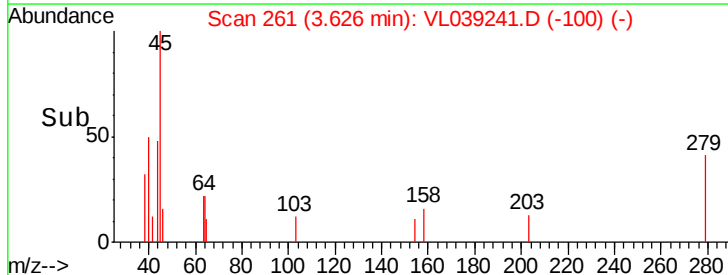
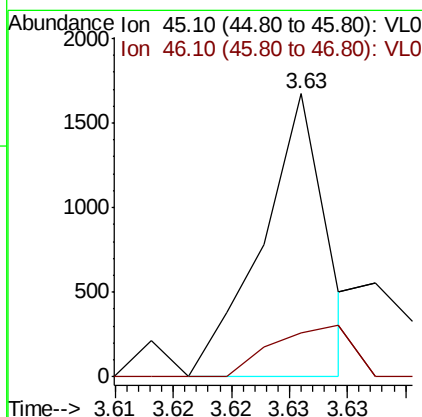
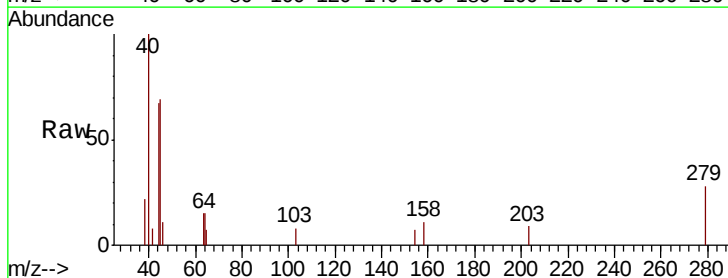
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.036 ppbv
 RT: 4.50
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 8 Jun 2022 19:05

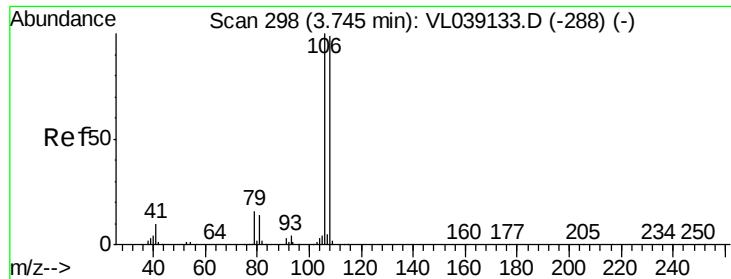
Tot Ion:101 Resp: 4031
 Ion Ratio Lower Upper
 101 100
 151 332.6 59.4 89.0#



#13
 Ethanol
 Concen: 0.202 ppbv
 RT: 3.63 min Scan# 261
 Delta R.T. 0.02 min
 Lab File: VL039241.D
 Acq: 8 Jun 2022 19:03

Tgt Ion: 45 Resp: 643
 Ion Ratio Lower Upper
 45 100
 46 22.2 0.0 0.0#





#14

Bromoethene

Concen: 0.036 ppbv

RT: 3.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-OT2-2022

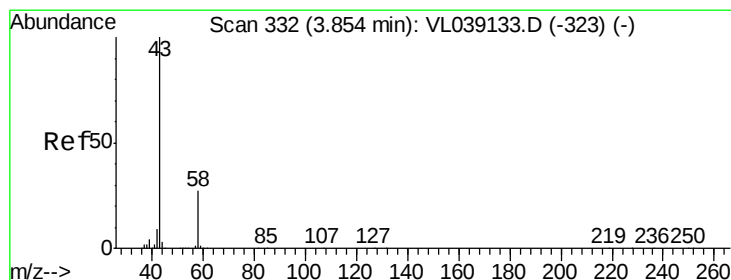
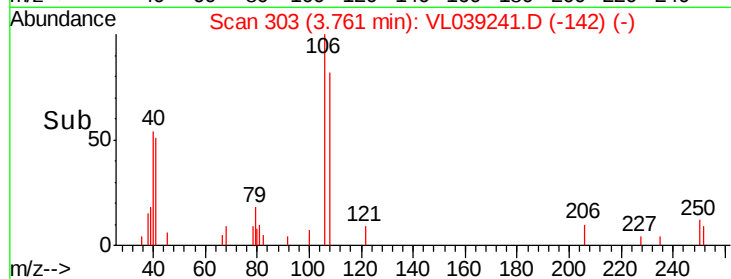
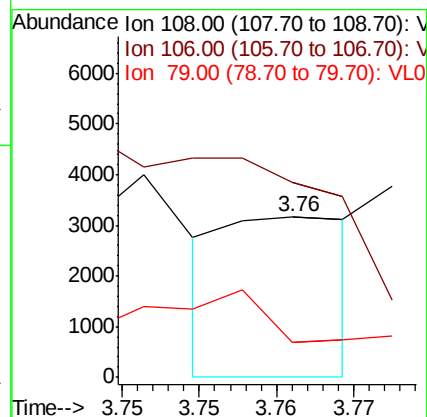
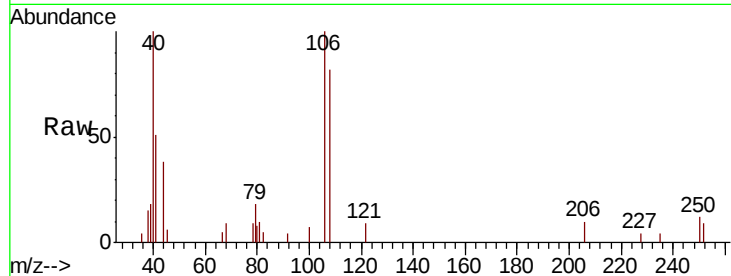
Tot Ion: 108 Resp: 1811

Ion Ratio Lower Upper

108 100

106 0.0 88.4 132.6#

79 137.8 13.4 20.2#



#15

Acetone

Concen: 0.156 ppbv

RT: 3.88 min Scan# 341

Delta R.T. 0.03 min

Lab File: VL039241.D

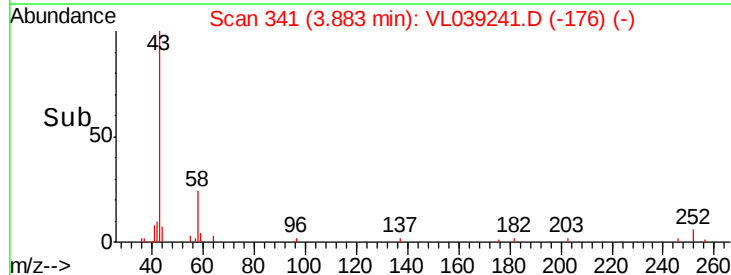
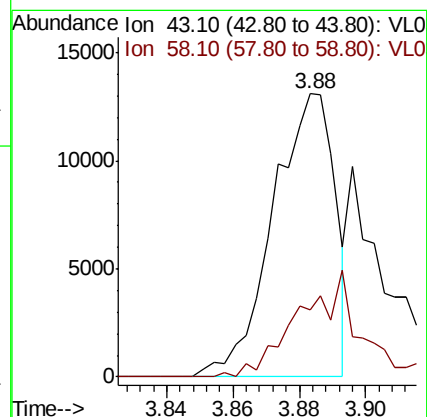
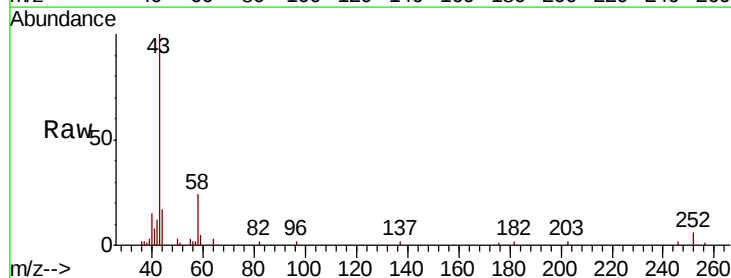
Acq: 8 Jun 2022 19:03

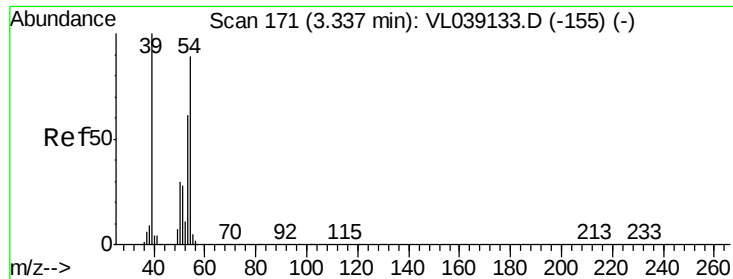
Tgt Ion: 43 Resp: 17126

Ion Ratio Lower Upper

43 100

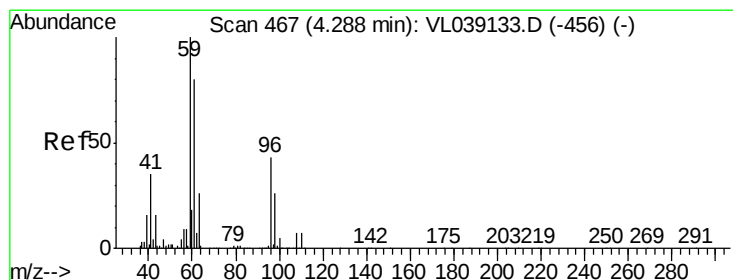
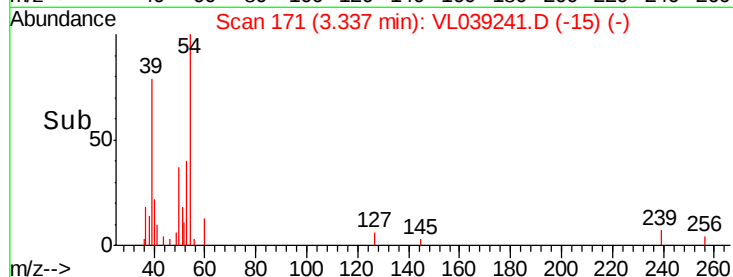
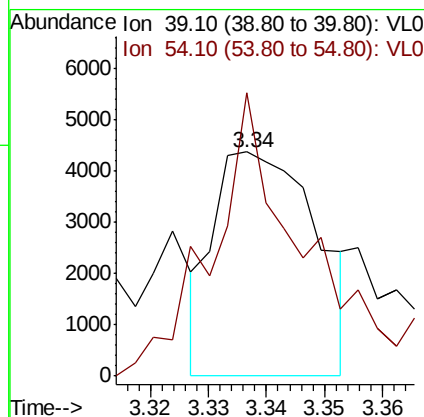
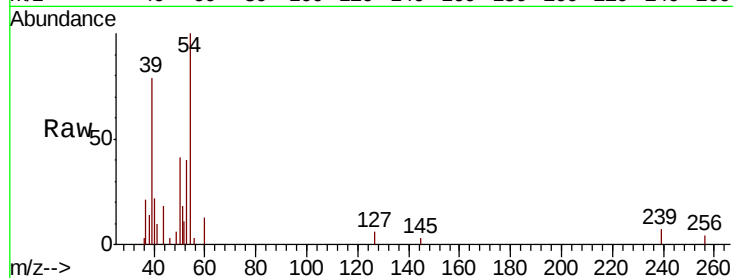
58 0.0 22.5 33.7#





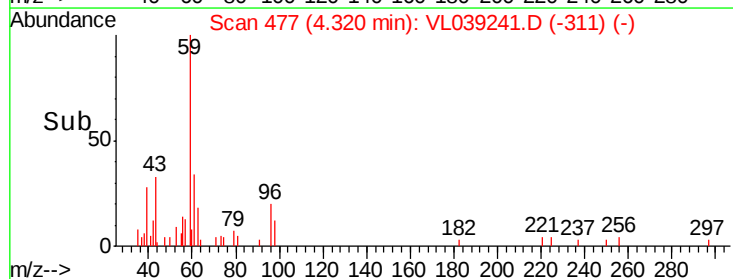
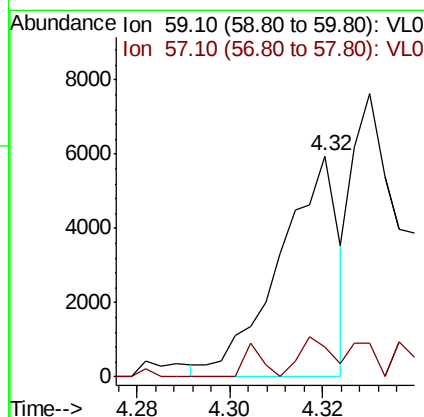
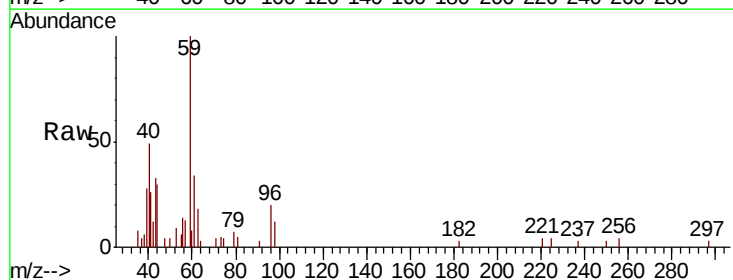
#16
 1,3-Butadiene
 Concen: 0.091 ppbv
 RT: 3.34 Instrument : MSVOA_1
 Delta R.T. ClientSampleId :
 Lab File: LOD-MDL-AIR-01-OT2-2022
 Acq: 8 Jun 2022 19:05

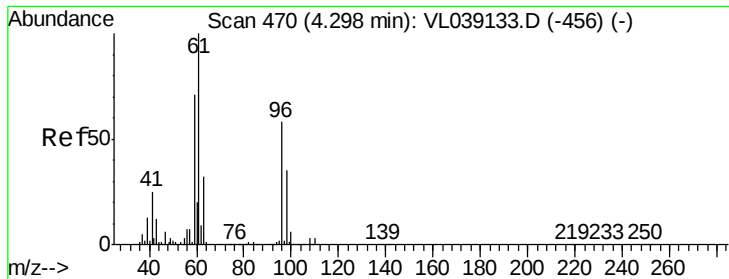
Tot Ion: 39 Resp: 5357
 Ion Ratio Lower Upper
 39 100
 54 115.3 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 0.062 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. 0.03 min
 Lab File: VL039241.D
 Acq: 8 Jun 2022 19:03

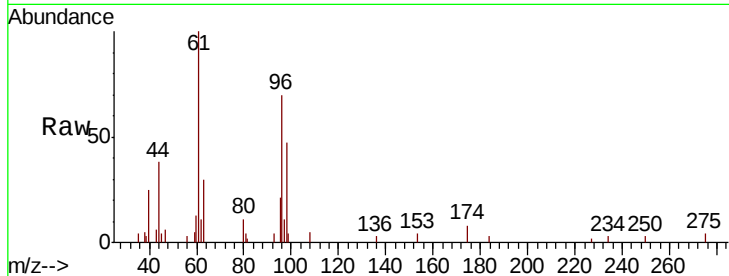
Tgt Ion: 59 Resp: 5251
 Ion Ratio Lower Upper
 59 100
 57 29.3 9.1 13.7#



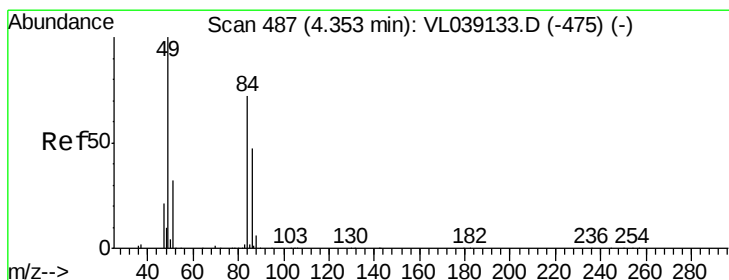
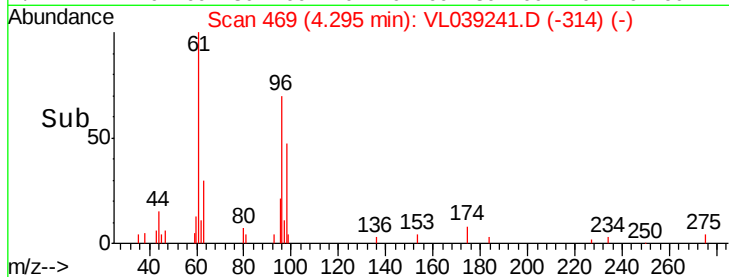
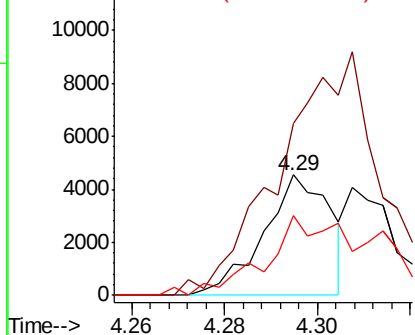


#18
 1,1-Dichloroethene
 Concen: 0.091 ppbv
 RT: 4.29
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 8 Jun 2022 19:05

Tot Ion: 96 Resp: 4522
 Ion Ratio Lower Upper
 96 100
 61 144.9 138.4 207.6
 98 66.6 47.8 71.8

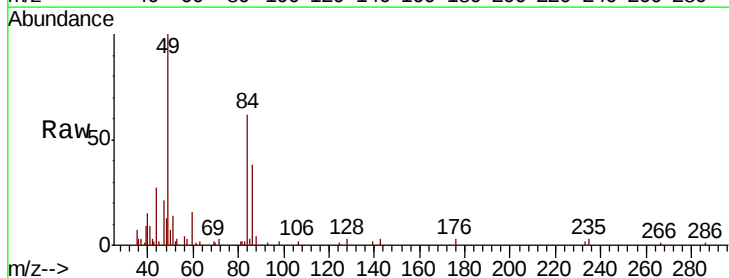


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

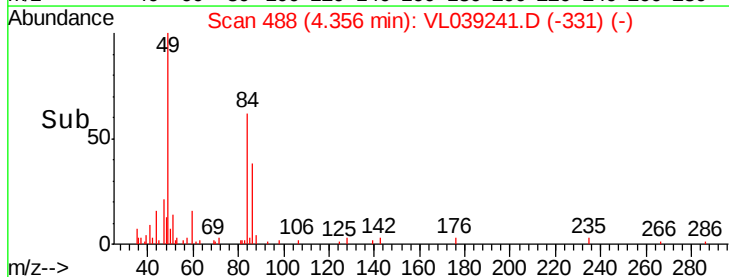
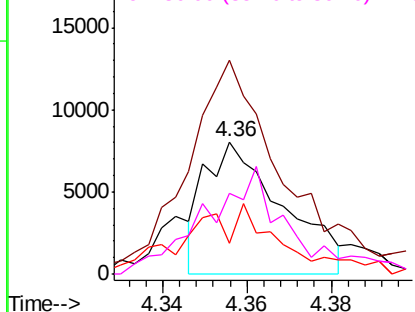


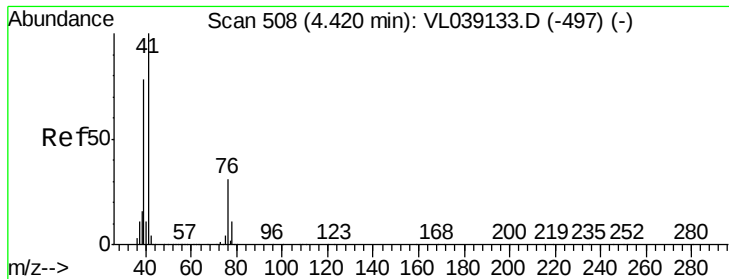
#20
 Methylene Chloride
 Concen: 0.223 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.00 min
 Lab File: VL039241.D
 Acq: 8 Jun 2022 19:03

Tgt Ion: 84 Resp: 10293
 Ion Ratio Lower Upper
 84 100
 49 155.7 111.1 166.7
 51 15.1 35.3 52.9#
 86 62.7 51.9 77.9



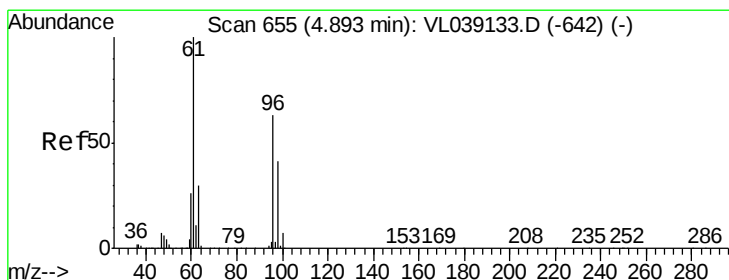
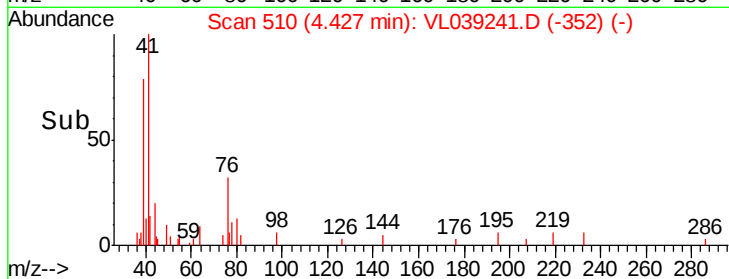
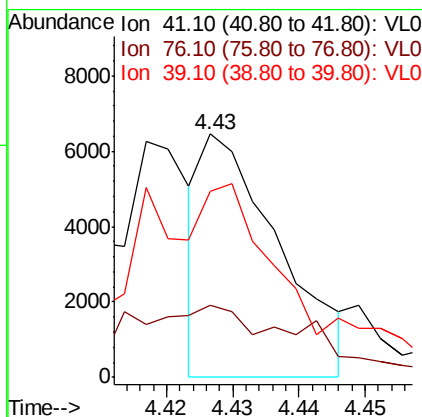
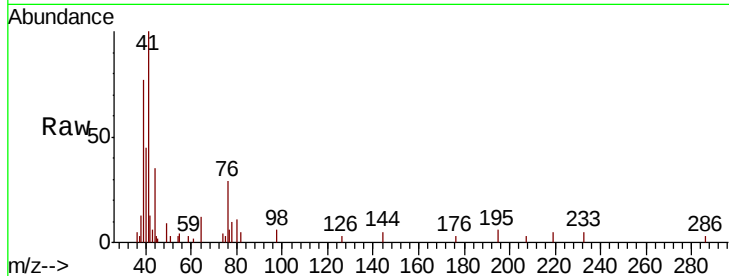
Abundance Ion 84.00 (83.70 to 84.70): VL0
 Ion 49.10 (48.80 to 49.80): VL0
 Ion 51.10 (50.80 to 51.80): VL0
 Ion 86.00 (85.70 to 86.70): VL0





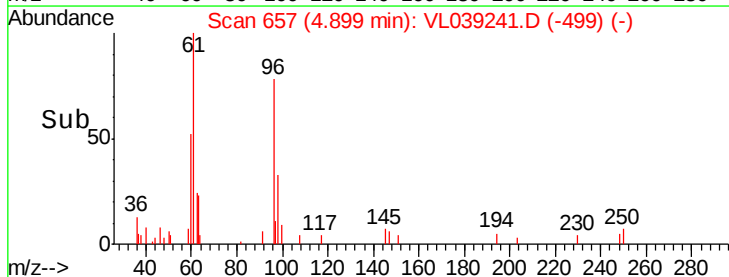
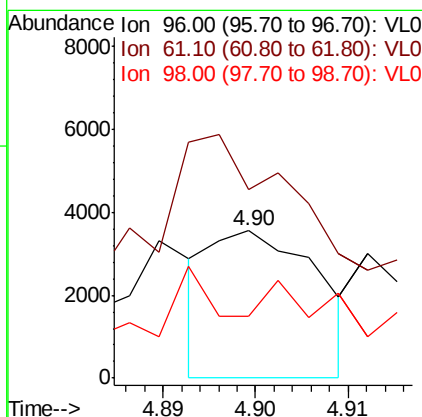
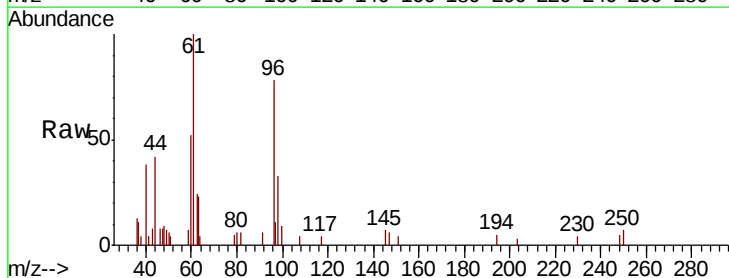
#21
 Allvl Chloride
 Concen: 0.071 ppbv
 RT: 4.43
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 LOD-MDL-AIR-01-OT2-2022
 Acq: 8 Jun 2022 19:05

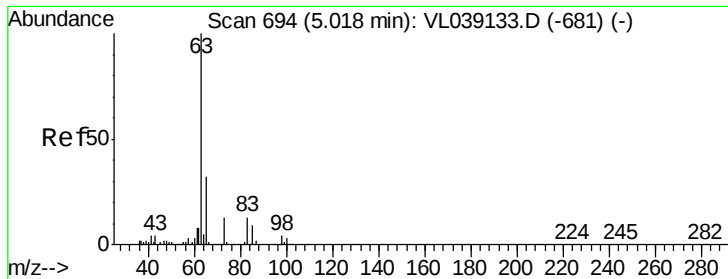
Tot Ion	41	Resp	5280
Ion Ratio	100		
Lower	24.2		
Upper	36.2#		
76	73.0		
39	211.4		
	62.2		93.2#



#22
 trans-1,2-Dichloroethene
 Concen: 0.060 ppbv
 RT: 4.90 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: VL039241.D
 Acq: 8 Jun 2022 19:03

Tgt Ion	96	Resp	2854
Ion Ratio	100		
Lower	126.6		
Upper	190.0#		
61	96.6		
98	0.0		78.7#





#24

1,1-Dichloroethane

Concen: 0.031 ppbv

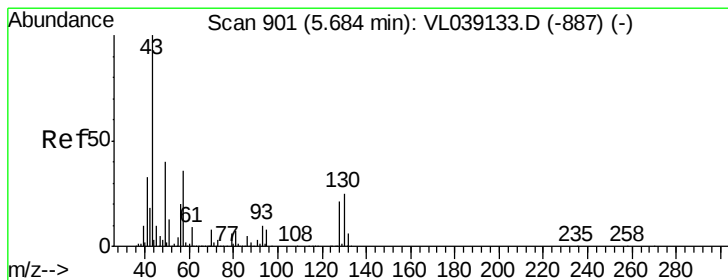
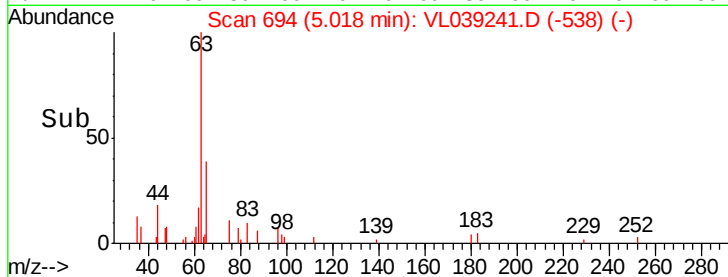
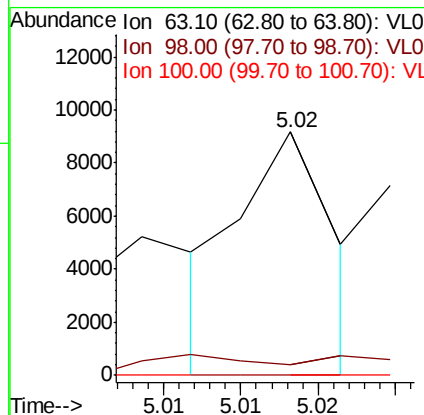
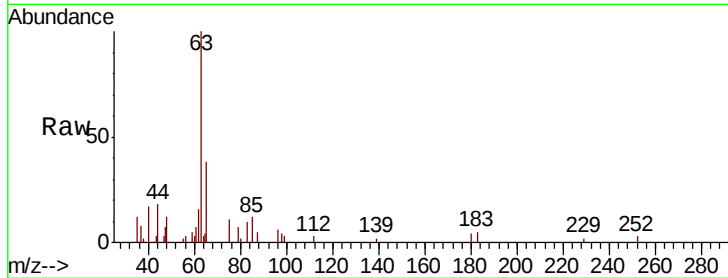
RT: 5.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Jun 2022 19:05

Tot Ion:	63	Resp:	3859
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.2#
100	0.0	1.5	4.5#



#25

Ethyl Acetate

Concen: 0.073 ppbv

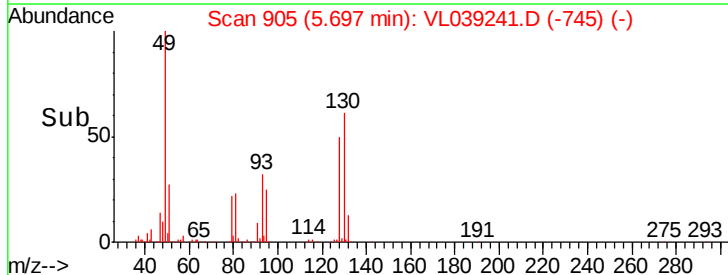
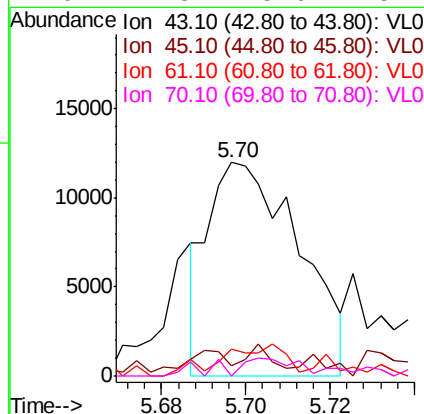
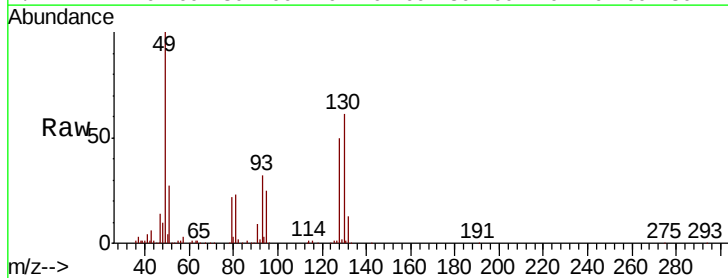
RT: 5.70 min Scan# 905

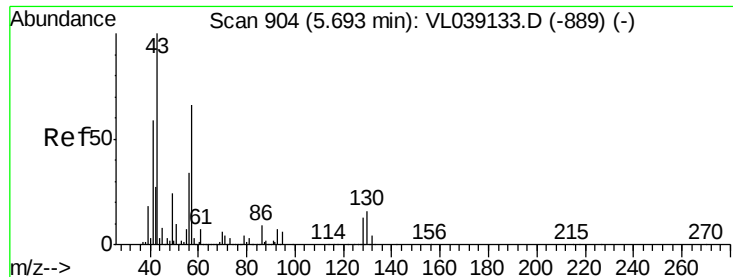
Delta R.T. 0.01 min

Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

Tgt Ion:	43	Resp:	18004
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.2#
61	0.0	8.4	12.6#
70	2.3	5.6	8.4#





#26

Hexane

Concen: 0.059 ppbv

RT: 5.69 Instrument:

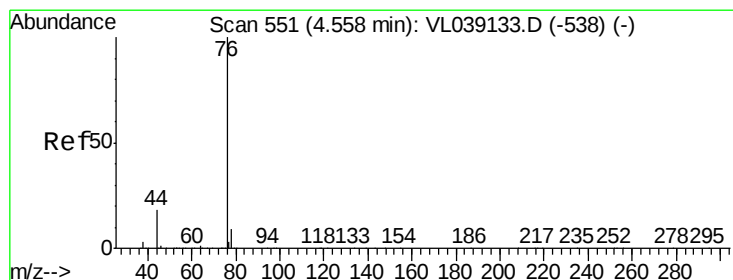
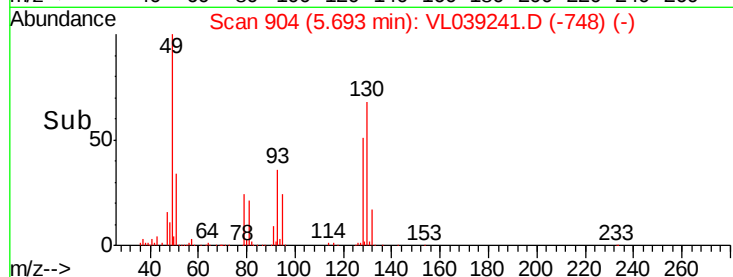
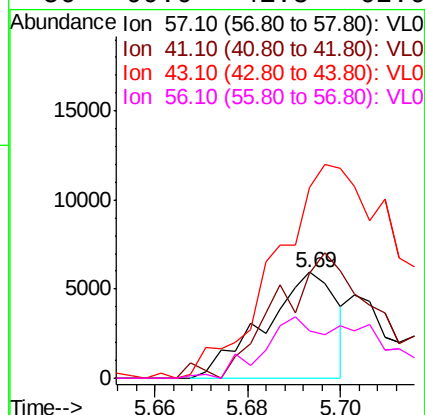
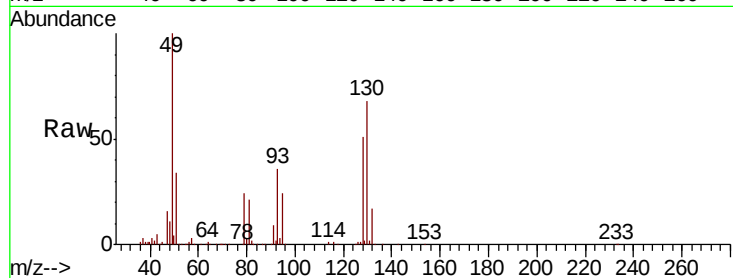
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-OT2-2022

Tot Ion: 57 Resp: 6435

Ion	Ratio	Lower	Upper
57	100		
41	194.8	72.4	108.6#
43	479.6	187.0	280.6#
56	99.0	41.8	62.6#



#27

Carbon Disulfide

Concen: 0.053 ppbv

RT: 4.56 min Scan# 552

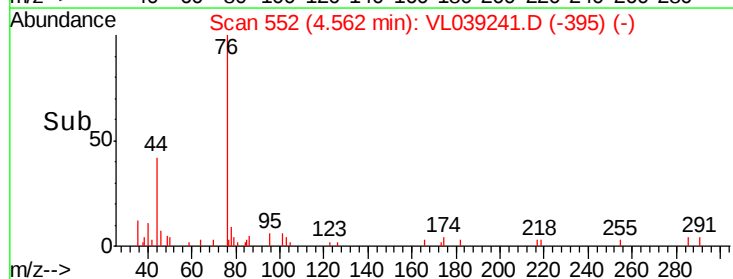
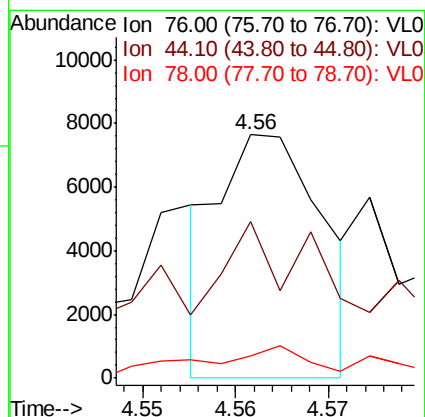
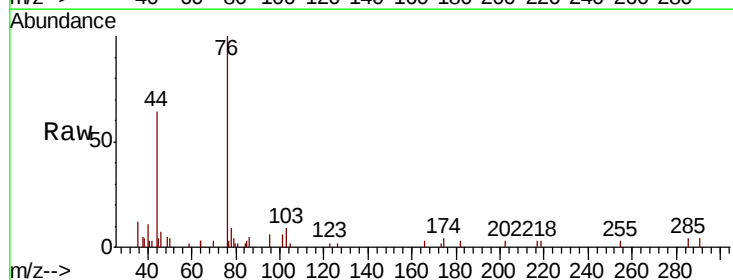
Delta R.T. 0.00 min

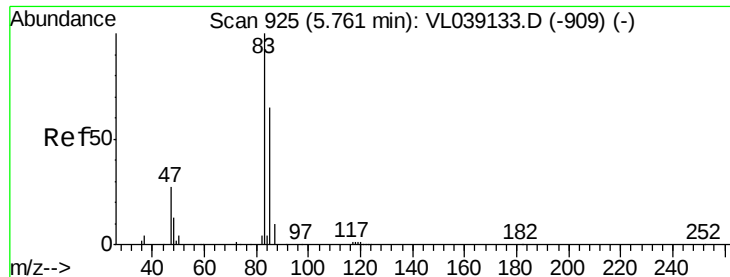
Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

Tgt Ion: 76 Resp: 5906

Ion	Ratio	Lower	Upper
76	100		
44	72.8	14.4	21.6#
78	26.7	7.7	11.5#





#29

Chloroform

Concen: 0.103 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

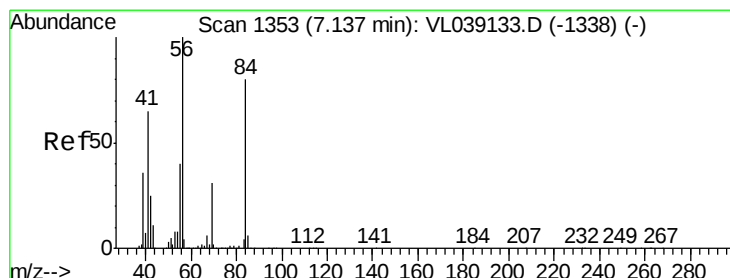
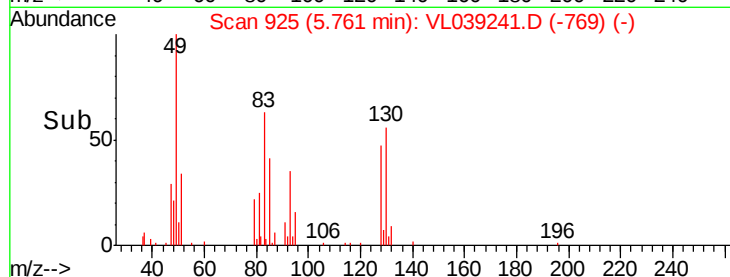
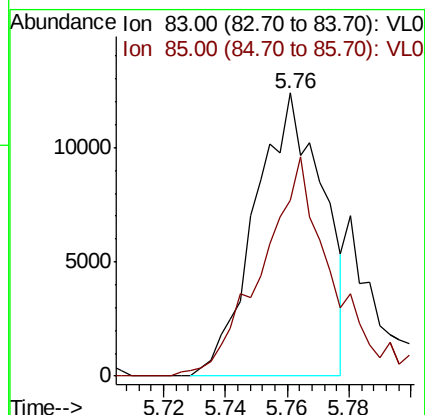
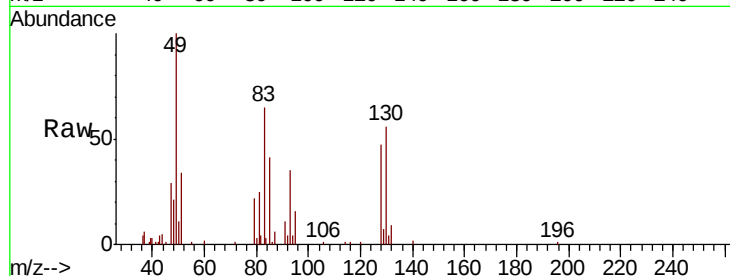
Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-OT2-2022

Tot Ion: 83 Resp: 18876

Ion Ratio Lower Upper

83 100

85 57.0 52.4 78.6



#30

Cyclohexane

Concen: 0.036 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. 0.01 min

Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

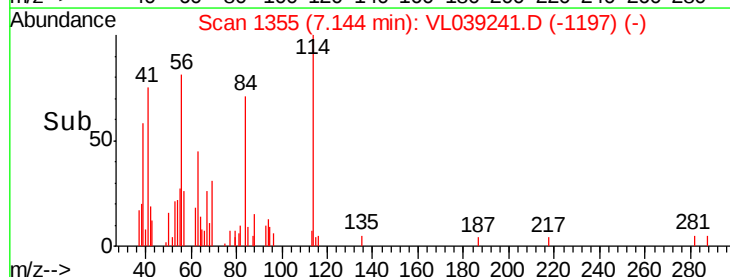
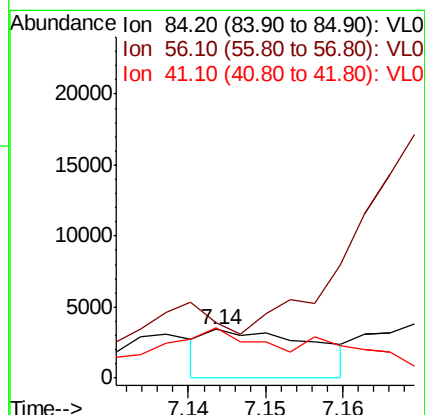
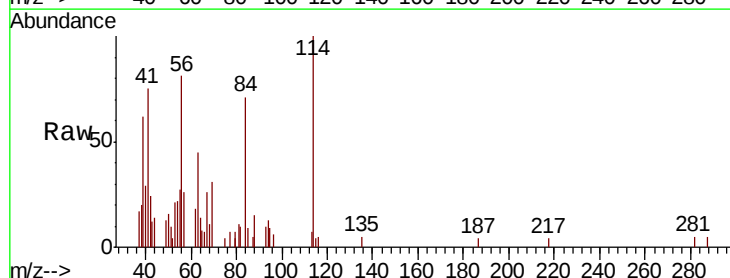
Tgt Ion: 84 Resp: 3310

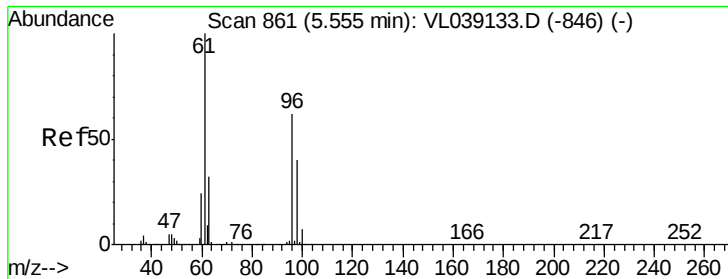
Ion Ratio Lower Upper

84 100

56 0.0 110.6 165.8#

41 237.0 68.9 103.3#





#31

cis-1,2-Dichloroethene

Concen: 0.070 ppbv

RT: 5.56 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-OT2-2022

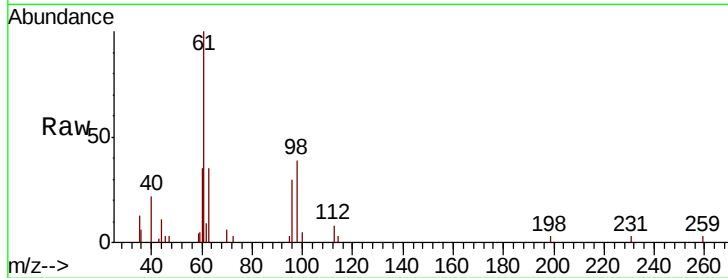
Tot Ion: 61 Resp: 7731

Ion Ratio Lower Upper

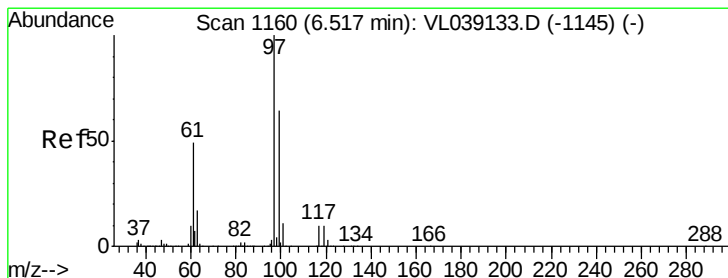
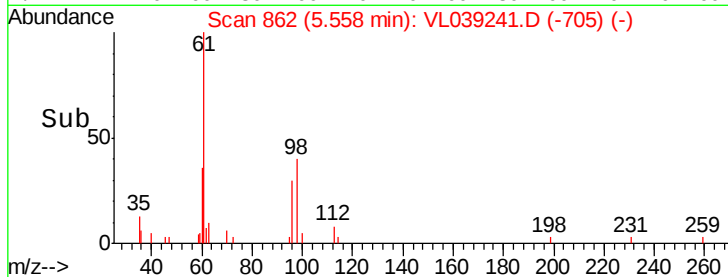
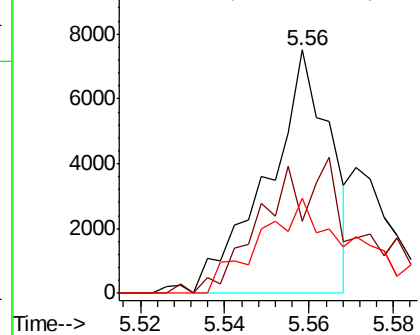
61 100

96 27.2 49.9 74.9#

98 35.6 32.0 48.0



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.042 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

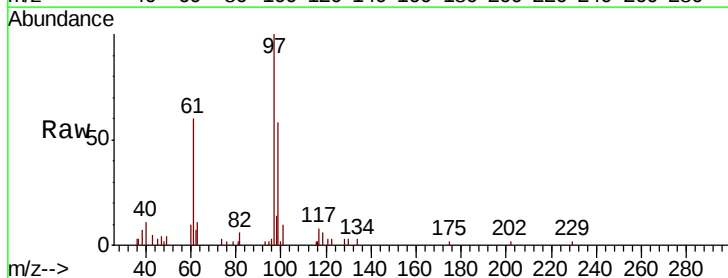
Tgt Ion: 97 Resp: 7501

Ion Ratio Lower Upper

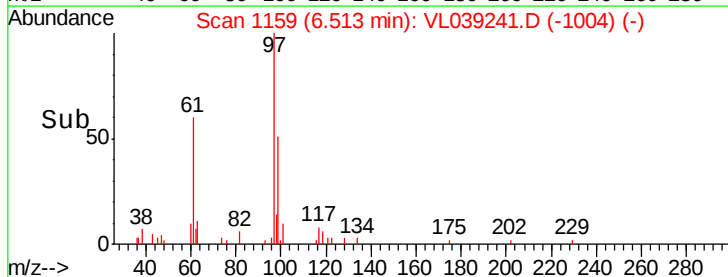
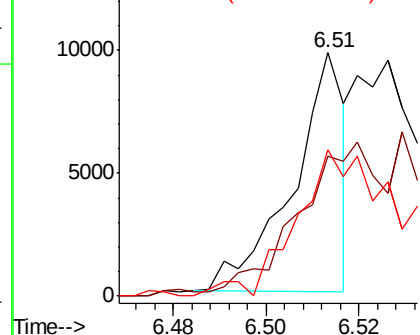
97 100

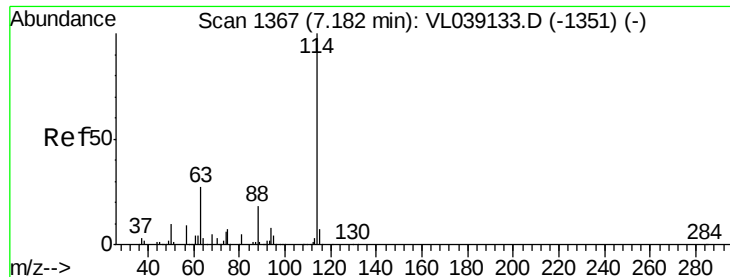
99 0.0 52.1 78.1#

61 156.5 40.0 60.0#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Jun 2022 19:05

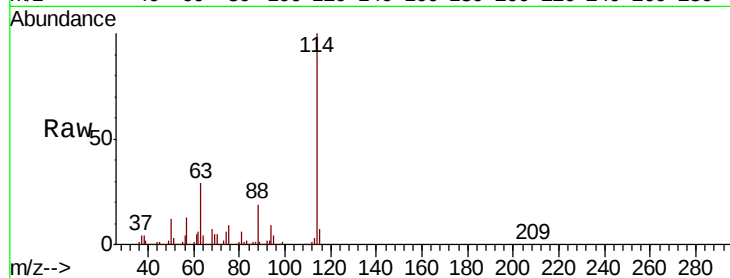
Tot Ion:114 Resp: 2448706

Ion Ratio Lower Upper

114 100

63 29.7 21.7 32.5

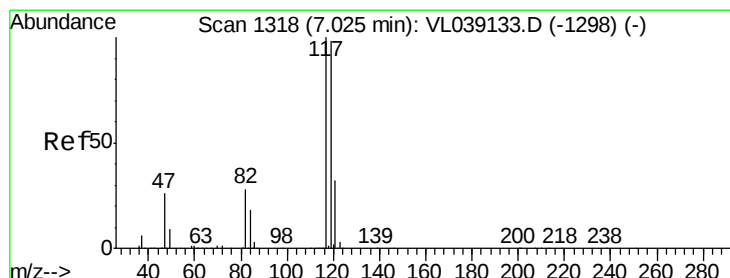
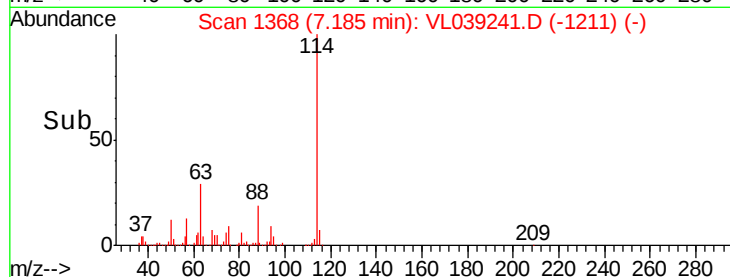
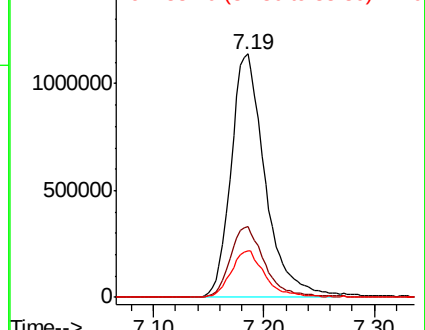
88 19.3 14.8 22.2



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



#35

Carbon Tetrachloride

Concen: 0.095 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

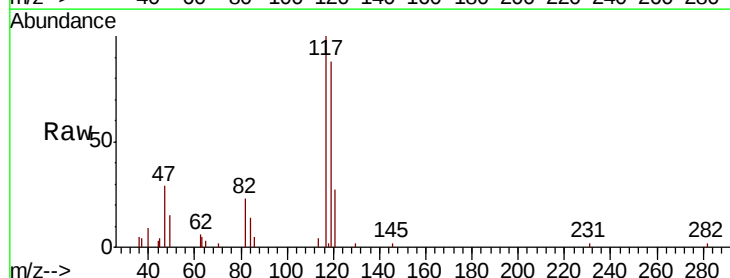
Tgt Ion:117 Resp: 16959

Ion Ratio Lower Upper

117 100

119 85.3 78.6 118.0

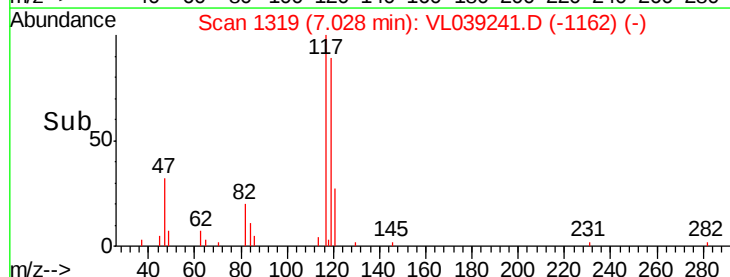
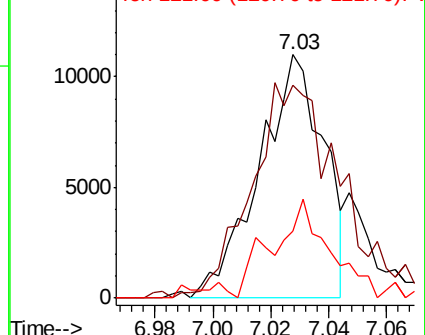
121 24.1 25.4 38.0#

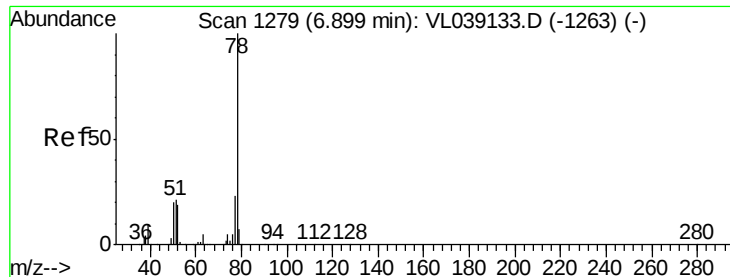


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.036 ppbv

RT: 6.91 Instrument:

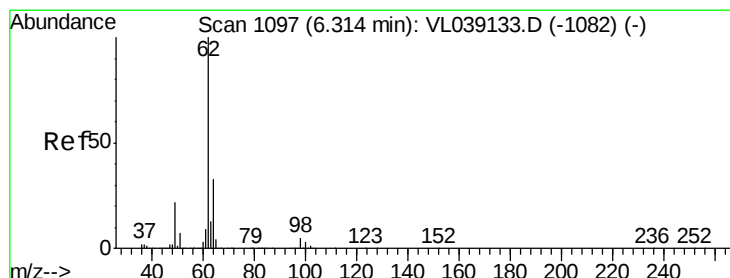
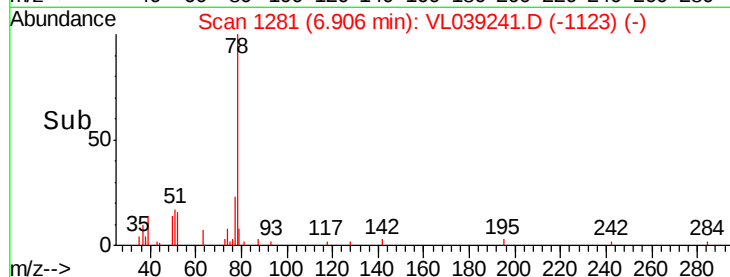
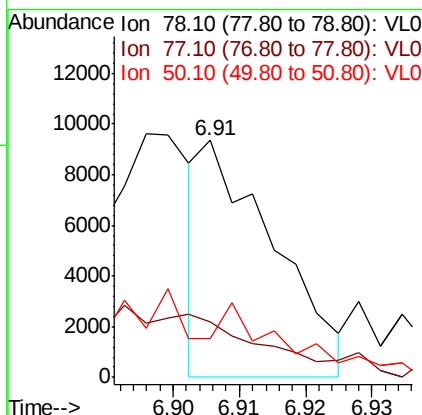
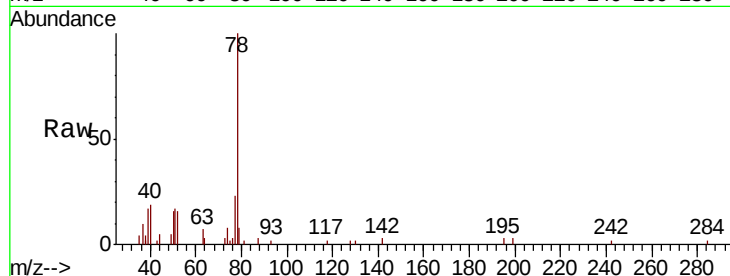
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-OT2-2022

Tot Ion: 78 Resp: 7195

Ion	Ratio	Lower	Upper
78	100		
77	19.6	18.6	27.8
50	12.8	15.8	23.8#



#37

1,2-Dichloroethane

Concen: 0.061 ppbv

RT: 6.32 min Scan# 1098

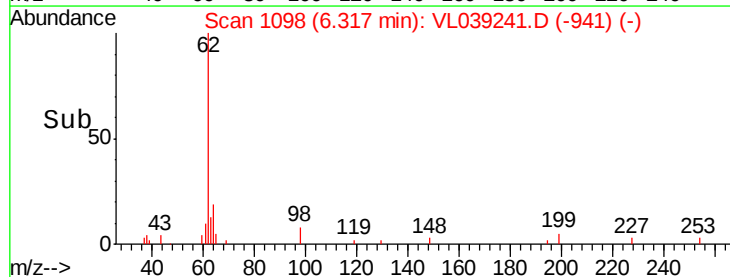
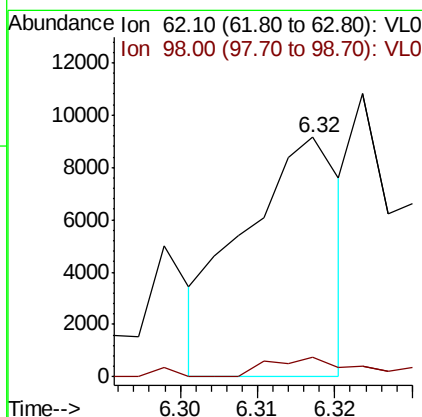
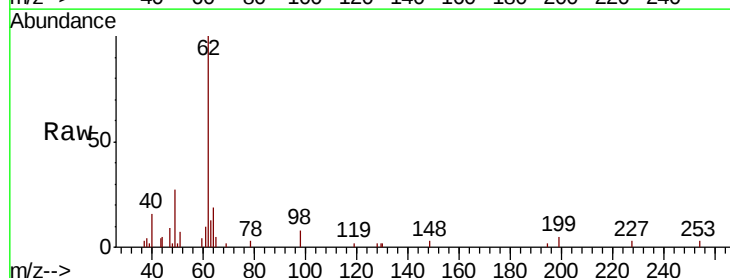
Delta R.T. 0.00 min

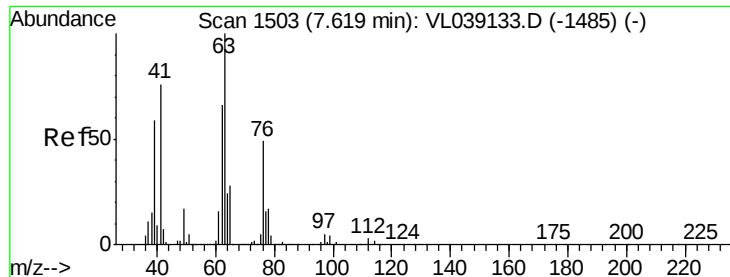
Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

Tgt Ion: 62 Resp: 7937

Ion	Ratio	Lower	Upper
62	100		
98	10.1	4.3	6.5#





#39

1,2-Dichloropropane

Concen: 0.096 ppbv

RT: 7.24 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-QT2-2022

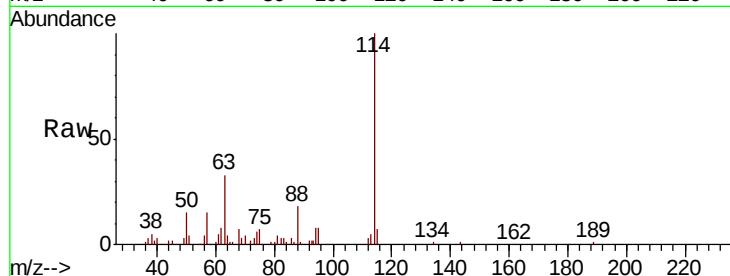
Tot Ion: 63 Resp: 7592

Ion Ratio Lower Upper

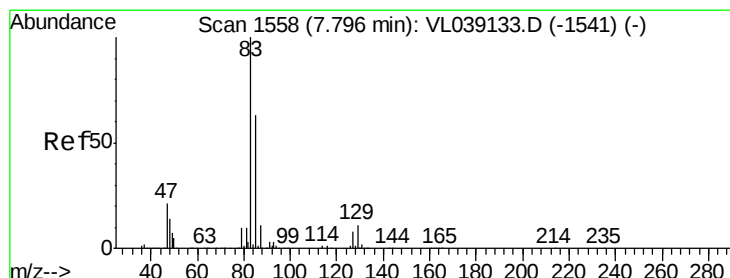
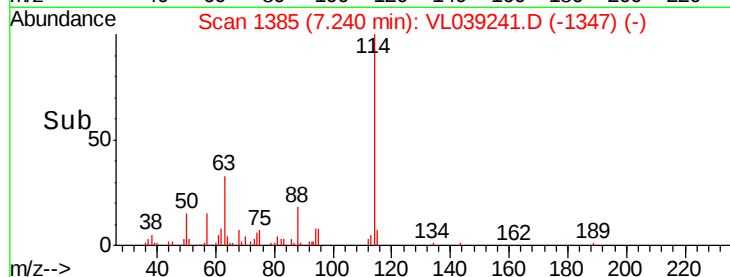
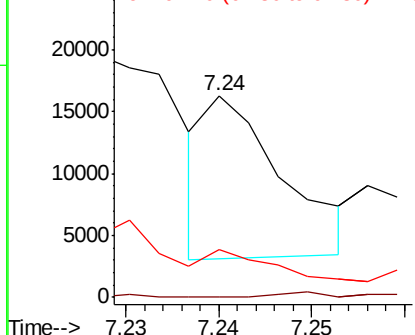
63 100

41 0.0 60.8 91.2#

62 27.1 52.9 79.3#



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



#42

Bromodichloromethane

Concen: 0.051 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

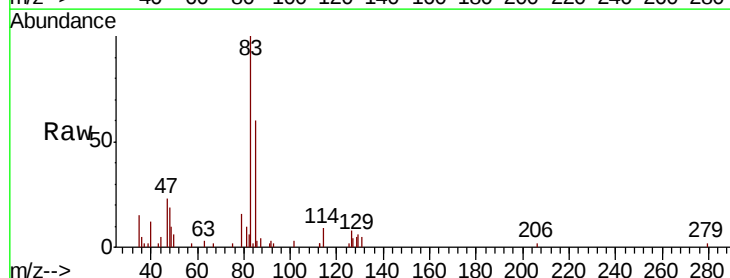
Tgt Ion: 83 Resp: 9260

Ion Ratio Lower Upper

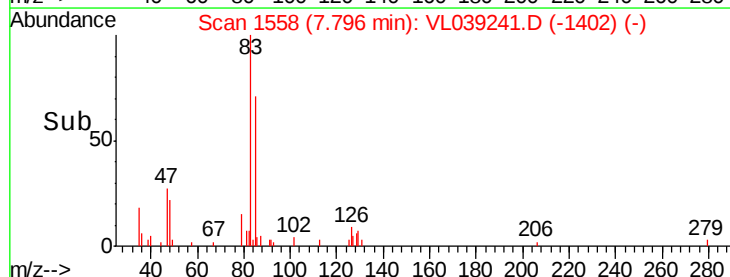
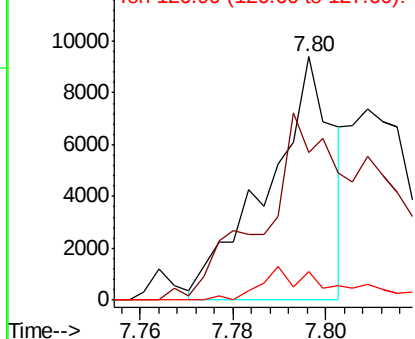
83 100

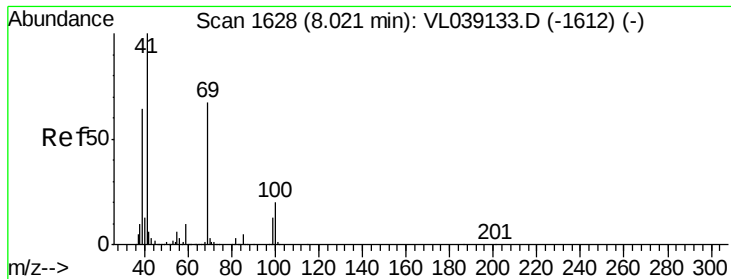
85 64.4 50.2 75.4

127 12.4 6.6 9.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.038 ppbv

RT: 8.02

Instrument: MSVOA_1

Delta R.T.

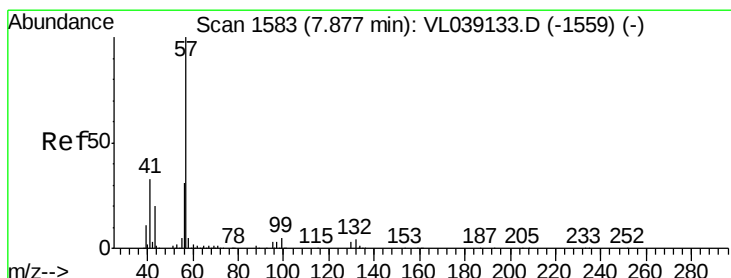
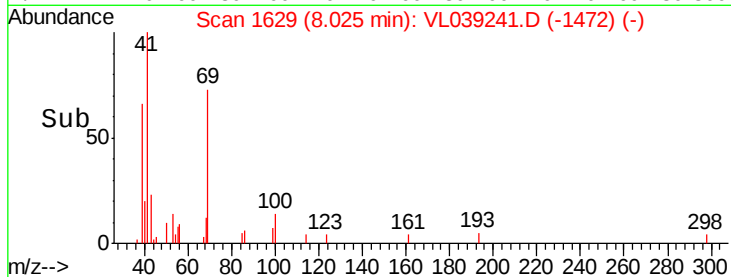
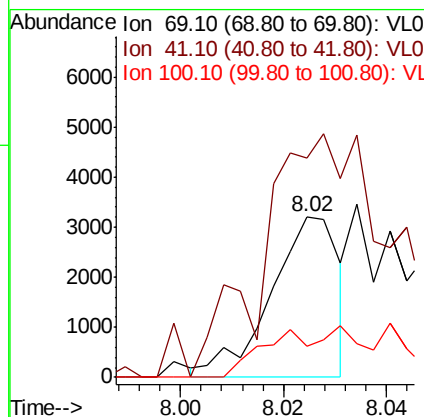
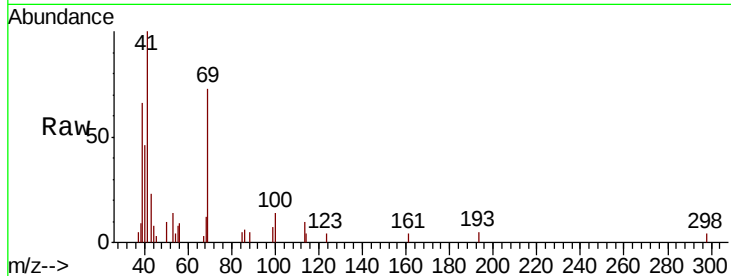
ClientSampleId:

Lab File: LOD-MDL-AIR-01-OT2-2022

Acq: 8 Jun 2022 19:05

Tot Ion: 69 Resp: 2934

Ion	Ratio	Lower	Upper
69	100		
41	399.9	121.9	182.9#
100	0.0	24.1	36.1#



#44

2,2,4-Trimethylpentane

Concen: 0.053 ppbv

RT: 7.88 min Scan# 1584

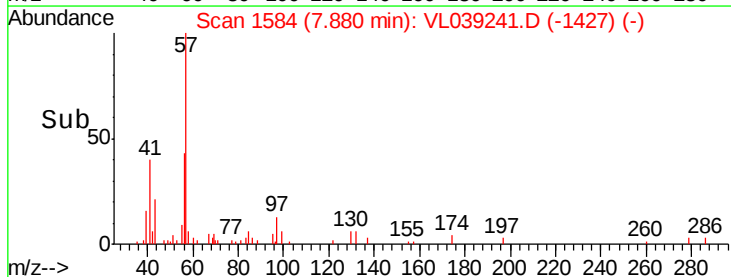
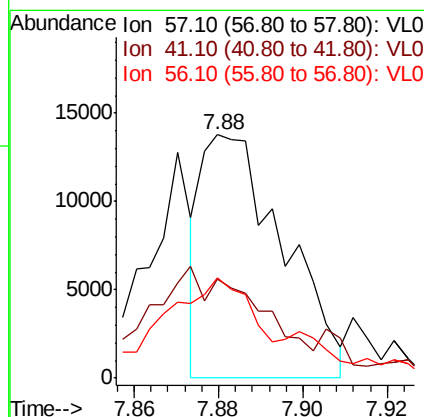
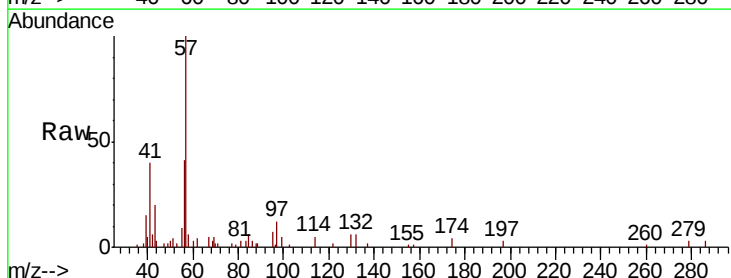
Delta R.T. 0.00 min

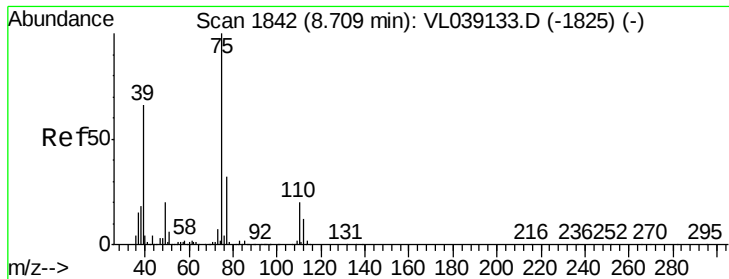
Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

Tgt Ion: 57 Resp: 18511

Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.2	39.4#
56	63.8	24.7	37.1#





#46

cis-1,3-Dichloropropene

Concen: 0.032 ppbv

RT: 8.72 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-OT2-2022

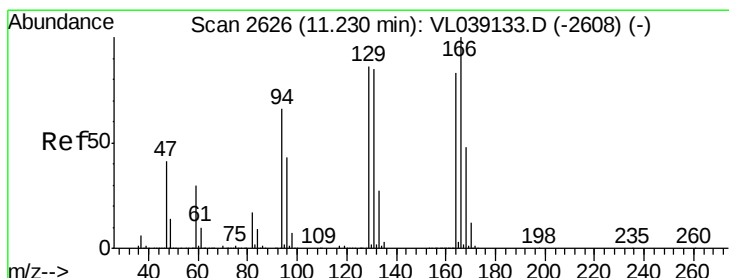
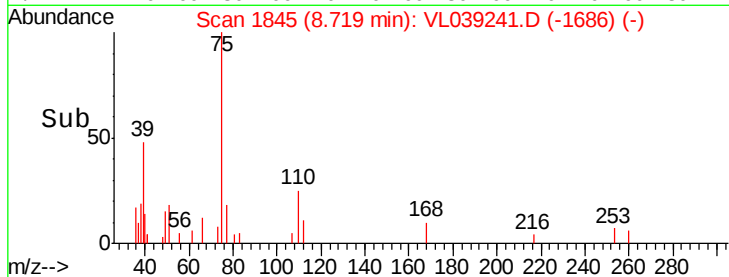
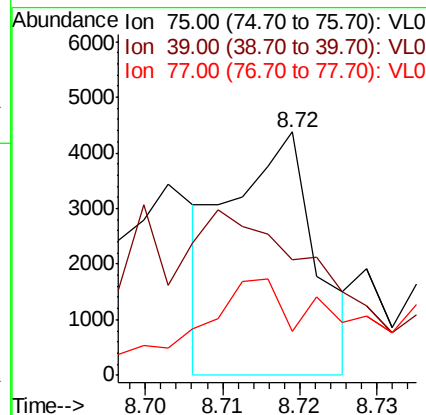
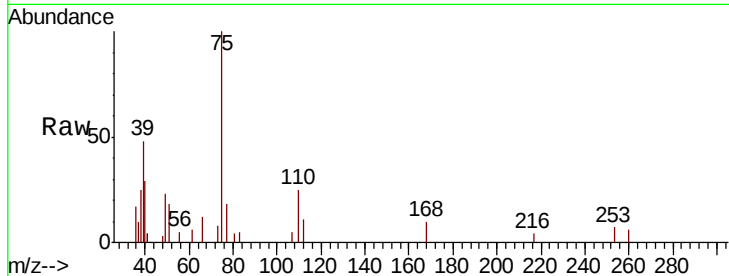
Tot Ion: 75 Resp: 3417

Ion Ratio Lower Upper

75 100

39 20.2 52.4 78.6#

77 0.0 25.5 38.3#



#52

Tetrachloroethene

Concen: 0.062 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. 0.00 min

Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

Tgt Ion:164 Resp: 4824

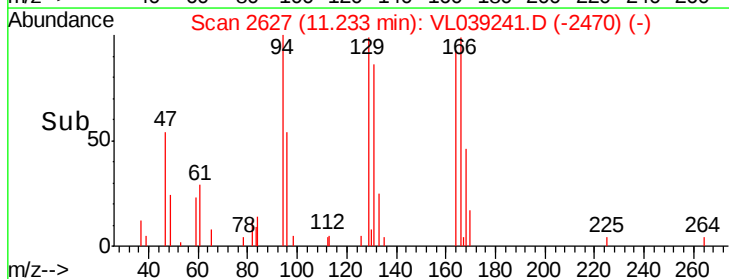
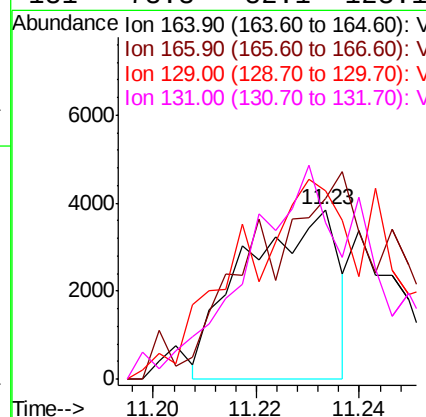
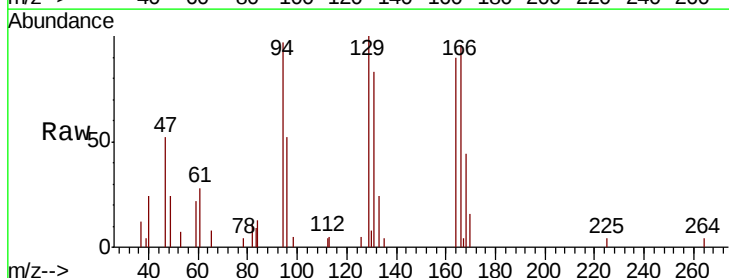
Ion Ratio Lower Upper

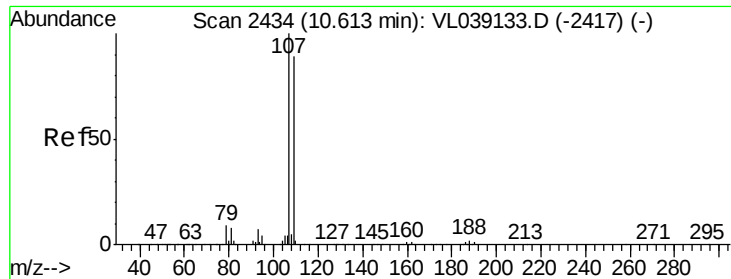
164 100

166 102.5 96.3 144.5

129 73.5 82.5 123.7#

131 73.3 82.1 123.1#





#54

1,2-Dibromoethane

Concen: 0.051 ppbv

RT: 10.62

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

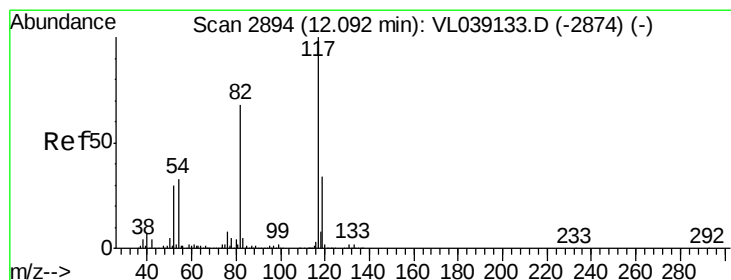
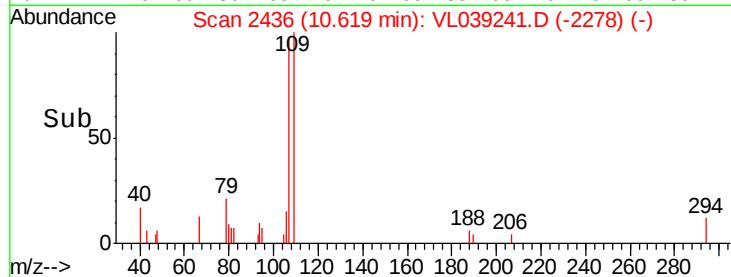
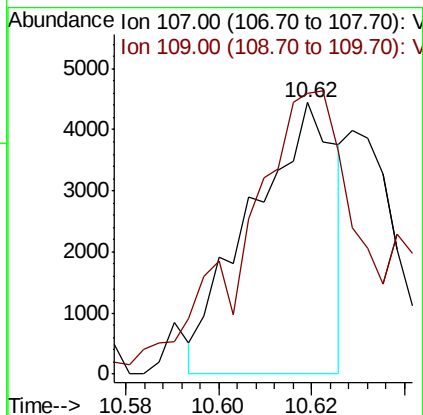
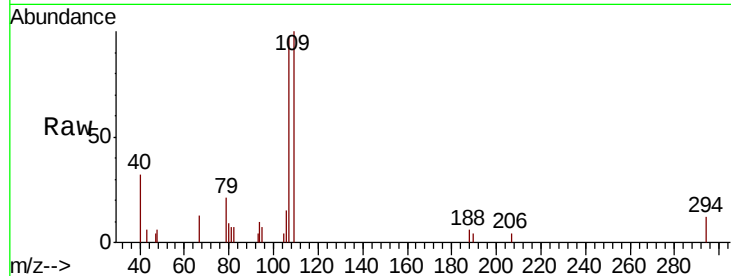
Acq: 8 Jun 2022 19:05

Tot Ion:107 Resp: 5638

Ion Ratio Lower Upper

107 100

109 93.7 71.4 107.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.00 min

Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

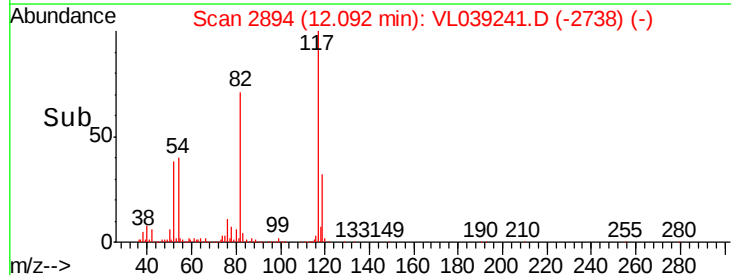
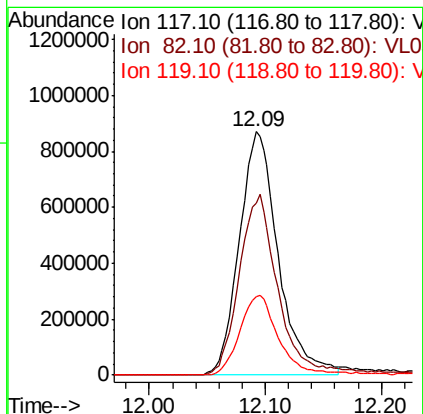
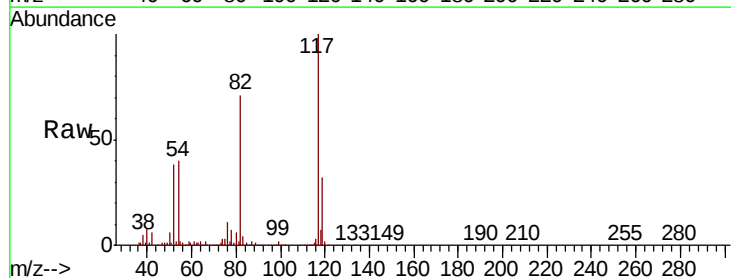
Tgt Ion:117 Resp: 2029341

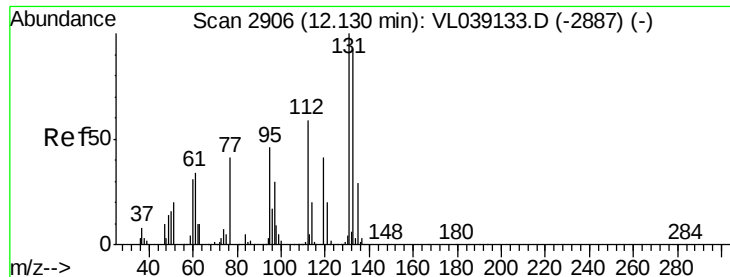
Ion Ratio Lower Upper

117 100

82 77.0 55.1 82.7

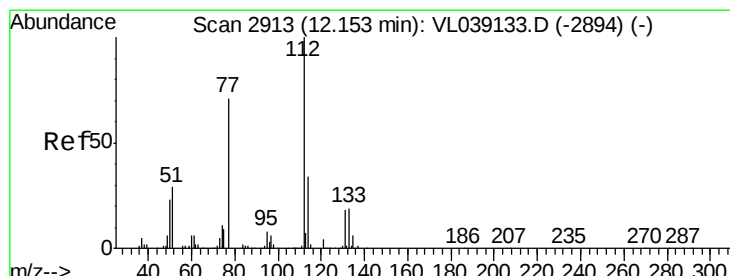
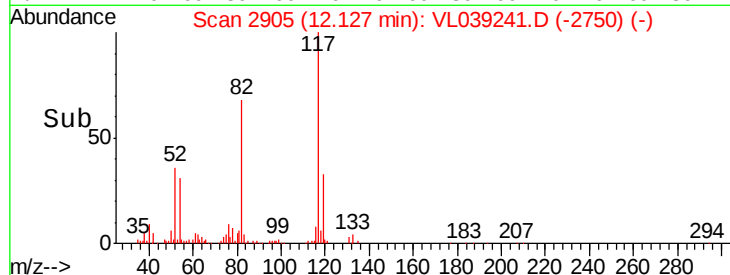
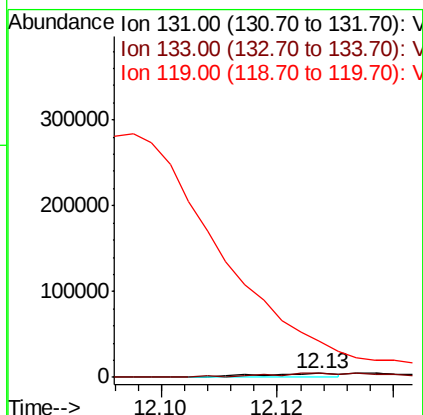
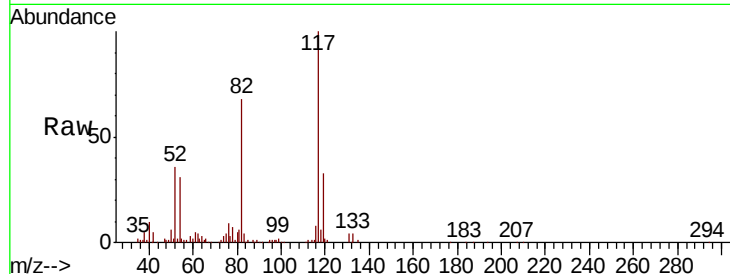
119 33.1 24.7 37.1





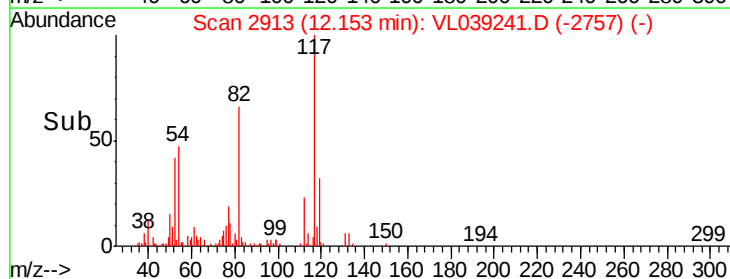
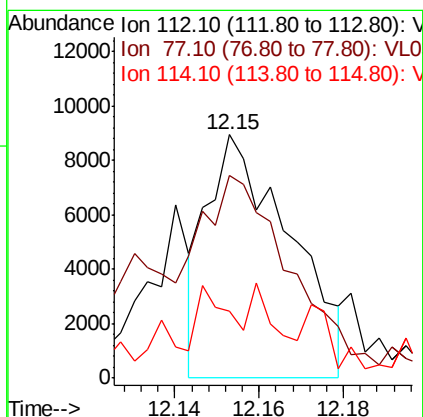
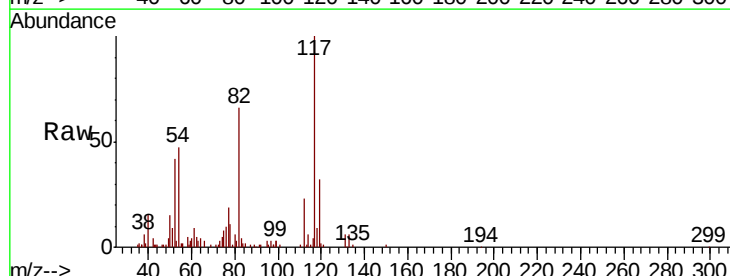
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.049 ppbv
 RT: 12.13 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 LOD-MDL-AIR-01-OT2-2022
 Acq: 8 Jun 2022 19:05

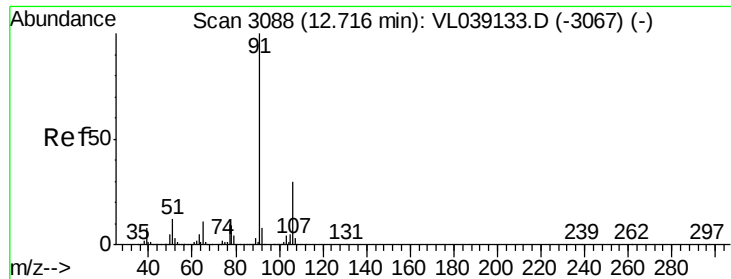
Tot Ion:131 Resp: 4711
 Ion Ratio Lower Upper
 131 100
 133 229.0 78.6 117.8#
 119 0.0 51.7 77.5#



#57
 Chlorobenzene
 Concen: 0.080 ppbv
 RT: 12.15 min Scan# 2913
 Delta R.T. 0.00 min
 Lab File: VL039241.D
 Acq: 8 Jun 2022 19:03

Tgt Ion:112 Resp: 12223
 Ion Ratio Lower Upper
 112 100
 77 87.6 56.5 84.7#
 114 33.8 30.3 37.1





#58

Ethyl Benzene

Concen: 0.035 ppbv

RT: 13.00 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

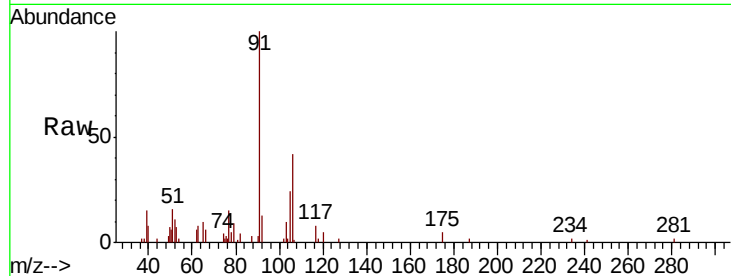
Acq: 8 Jun 2022 19:05

Tot Ion: 91 Resp: 9771

Ion Ratio Lower Upper

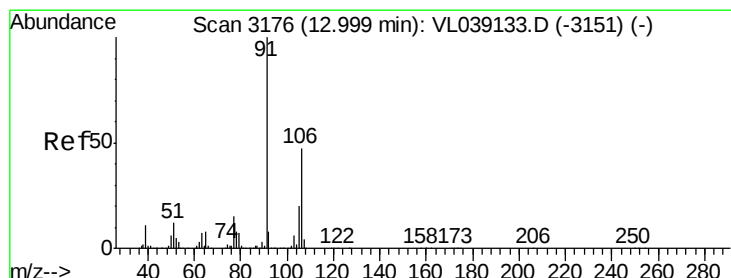
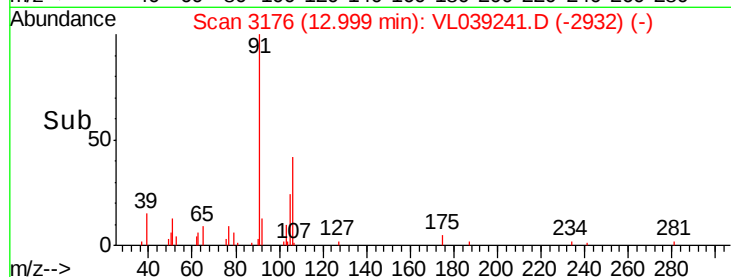
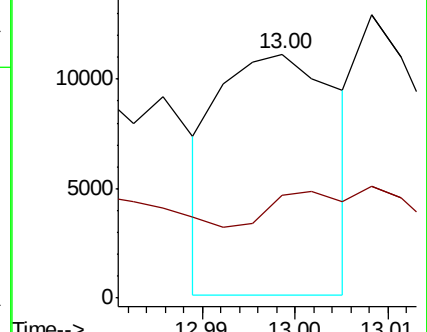
91 100

106 25.1 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: 0.040 ppbv

RT: 13.00 min Scan# 3176

Delta R.T. 0.00 min

Lab File: VL039241.D

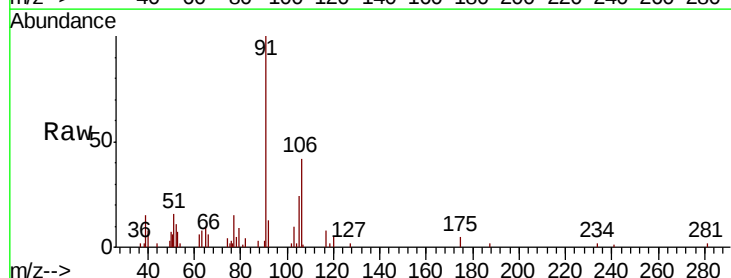
Acq: 8 Jun 2022 19:03

Tgt Ion: 91 Resp: 9771

Ion Ratio Lower Upper

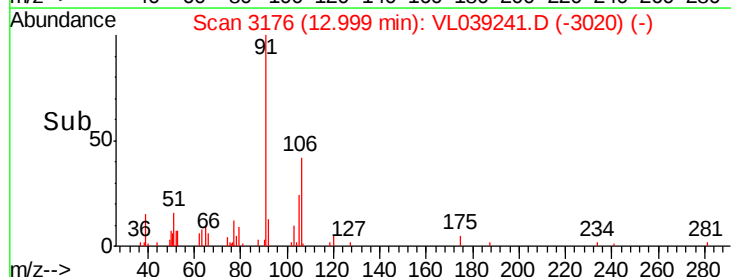
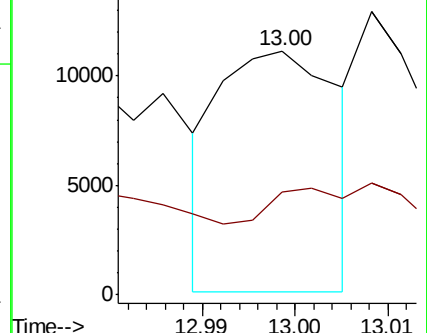
91 100

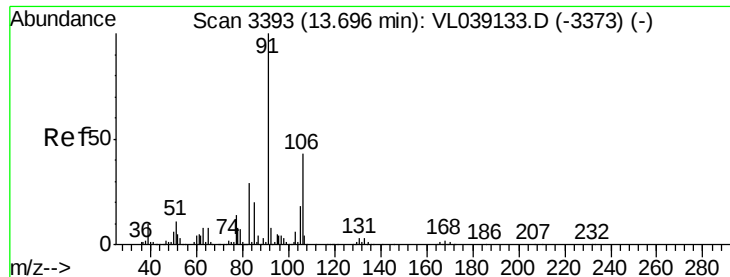
106 0.0 34.3 51.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

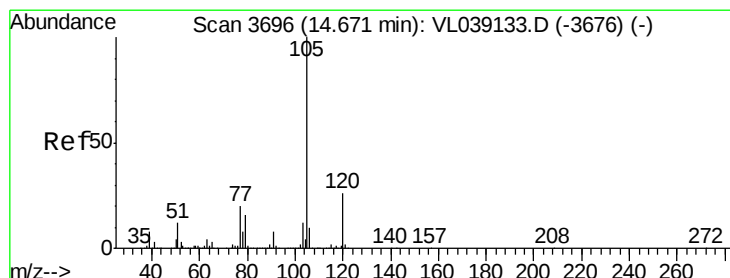
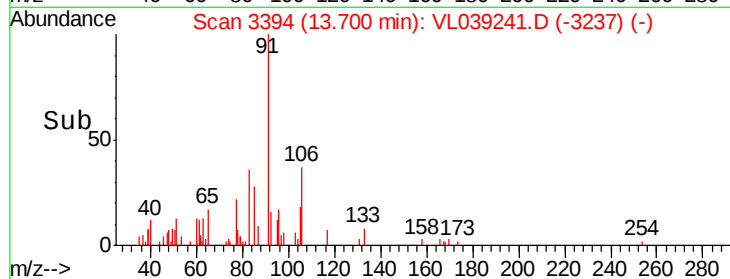
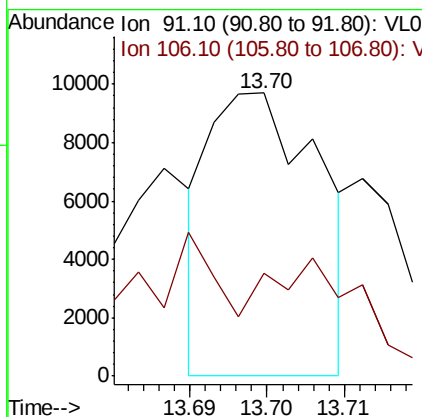
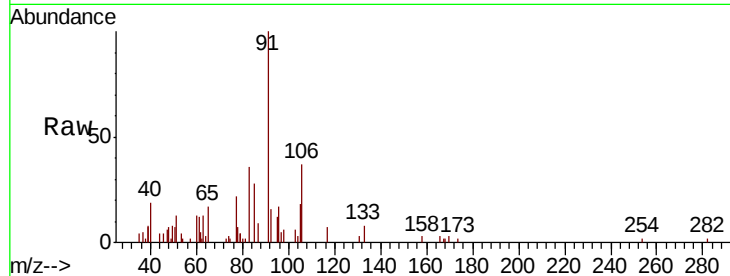
Ion 106.10 (105.80 to 106.80): V





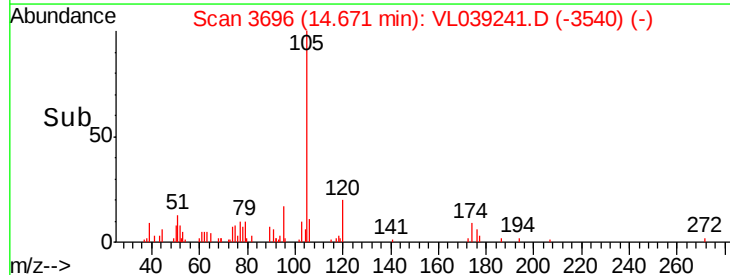
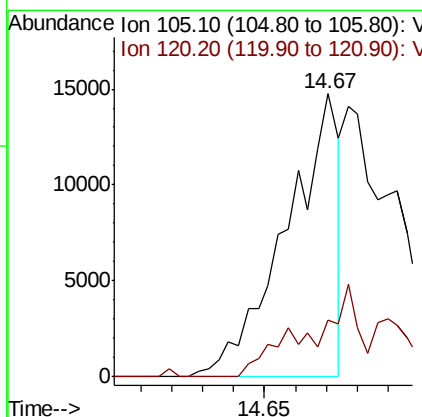
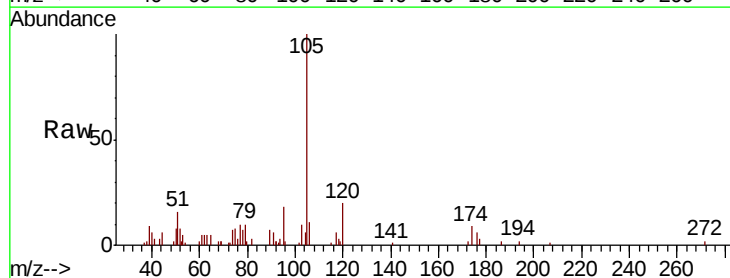
#60
o-Xylene
Concen: 0.041 ppbv
RT: 13.70 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Jun 2022 19:05
LOD-MDL-AIR-01-OT2-2022

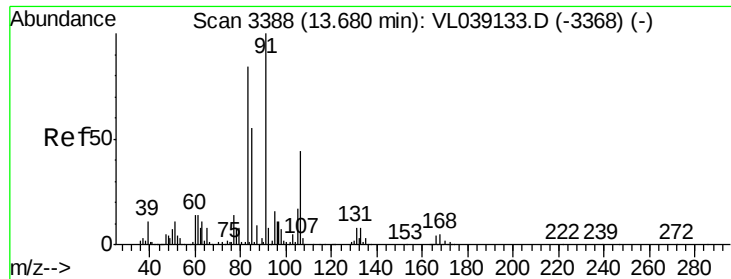
Tot Ion: 91 Resp: 9594
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#



#62
Isopropylbenzene
Concen: 0.051 ppbv
RT: 14.67 min Scan# 3696
Delta R.T. 0.00 min
Lab File: VL039241.D
Acq: 8 Jun 2022 19:03

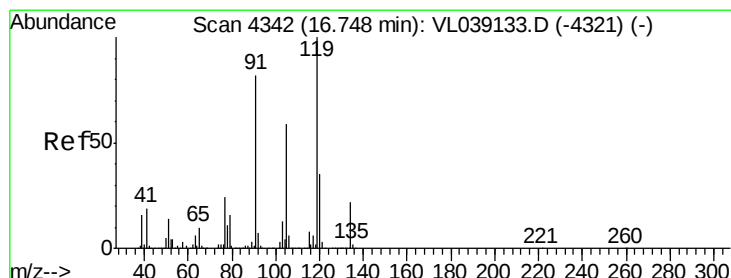
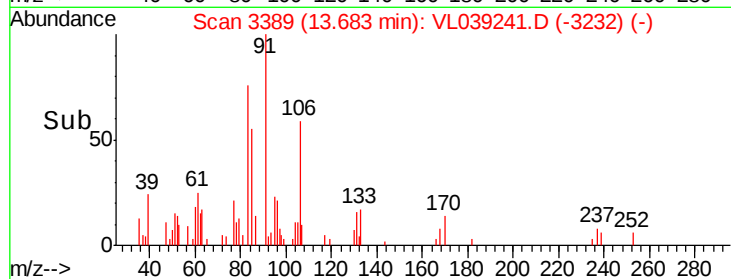
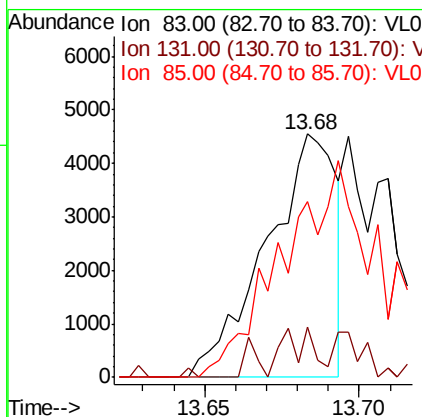
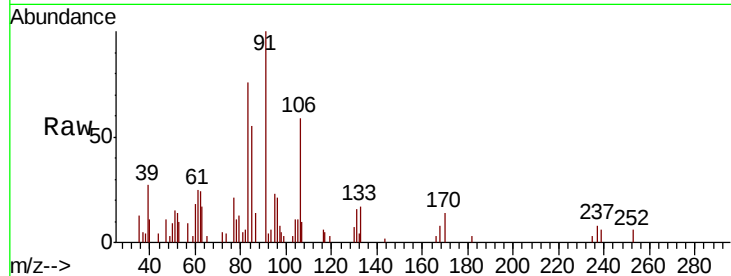
Tgt Ion: 105 Resp: 17475
Ion Ratio Lower Upper
105 100
120 0.0 20.3 30.5#





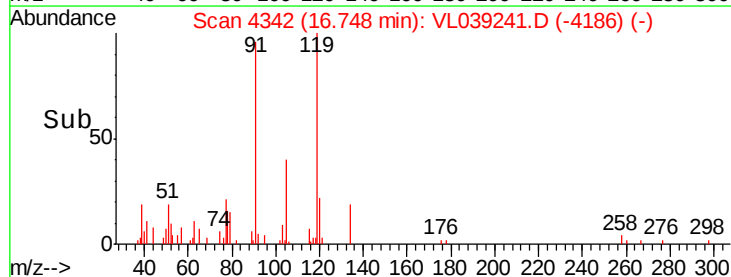
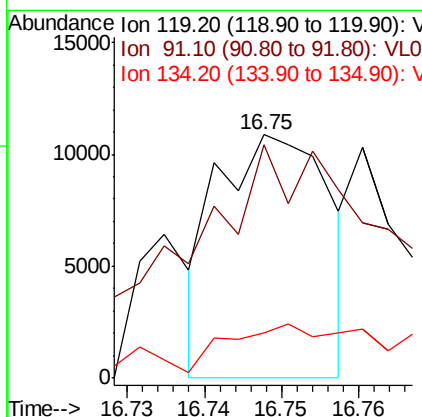
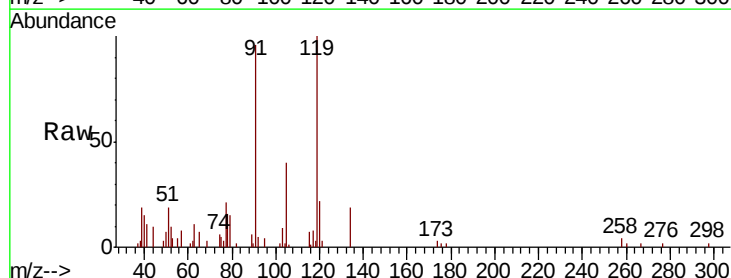
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.055 ppbv
 RT: 13.68 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 8 Jun 2022 19:05
 LOD-MDL-AIR-01-OT2-2022

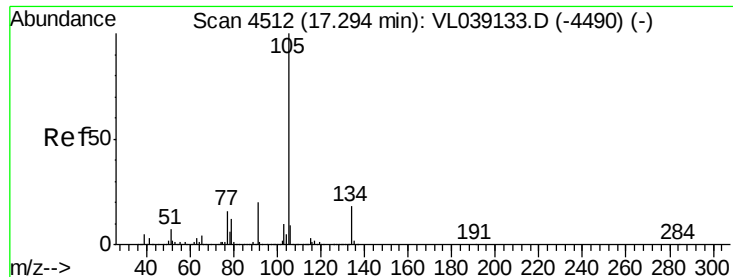
Tot Ion: 83 Resp: 7107
 Ion Ratio Lower Upper
 83 100
 131 21.5 4.8 14.3#
 85 0.0 33.0 99.0#



#65
 tert-Butylbenzene
 Concen: 0.035 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. 0.00 min
 Lab File: VL039241.D
 Acq: 8 Jun 2022 19:03

Tgt Ion: 119 Resp: 10930
 Ion Ratio Lower Upper
 119 100
 91 258.0 67.1 100.7#
 134 55.6 15.8 23.8#





#67

sec-Butylbenzene

Concen: 0.035 ppbv

RT: 17.29

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

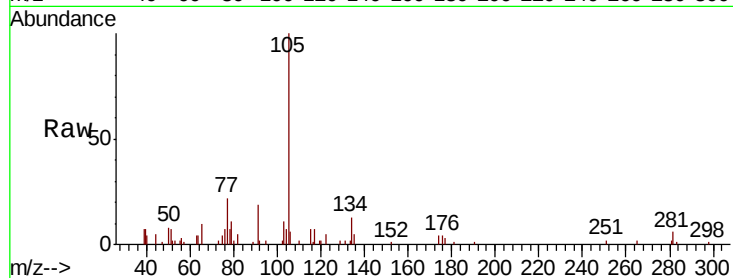
Acq: 8 Jun 2022 19:05

Tot Ion: 105 Resp: 14980

Ion Ratio Lower Upper

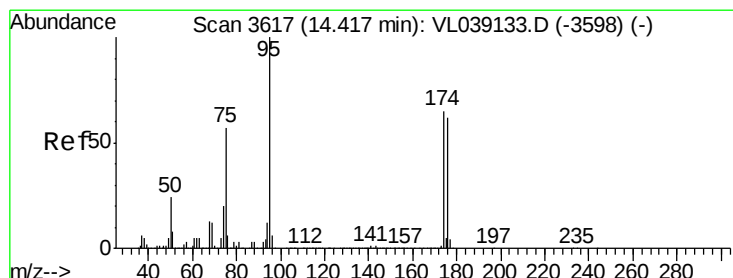
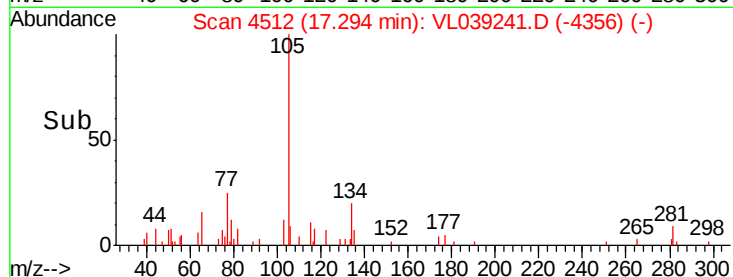
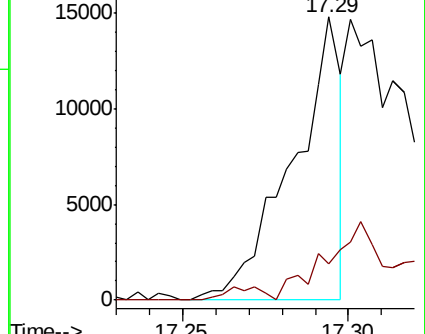
105 100

134 0.0 14.4 21.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.565 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL039241.D

Acq: 8 Jun 2022 19:03

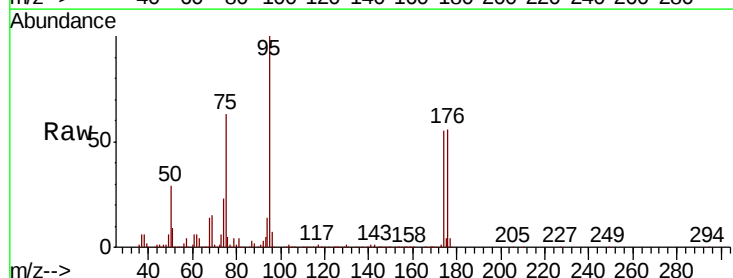
Tgt Ion: 95 Resp: 1772450

Ion Ratio Lower Upper

95 100

174 59.0 53.8 80.8

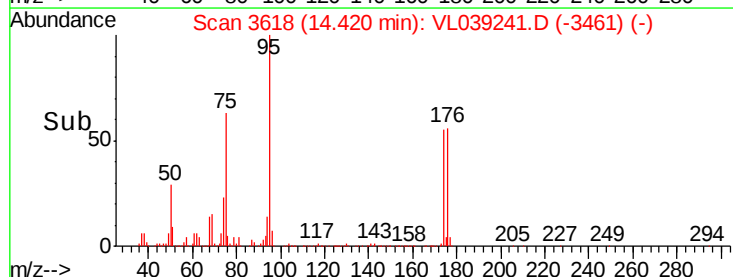
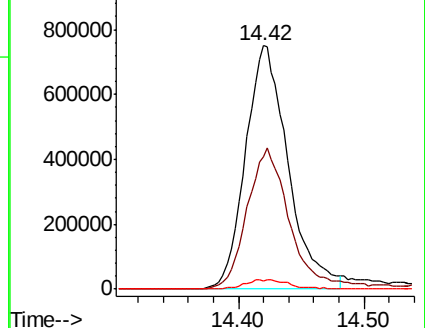
175 4.2 4.1 6.1

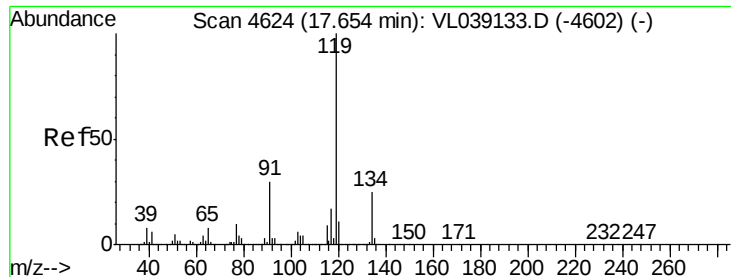


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

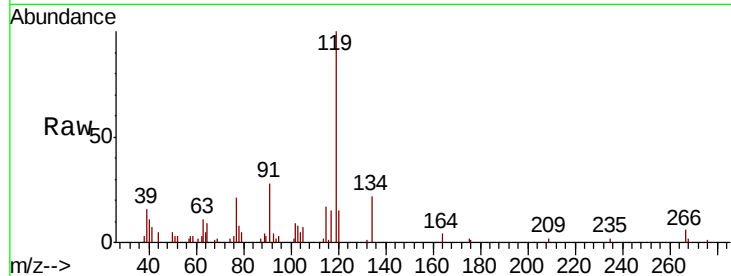
Ion 175.00 (174.70 to 175.70): V



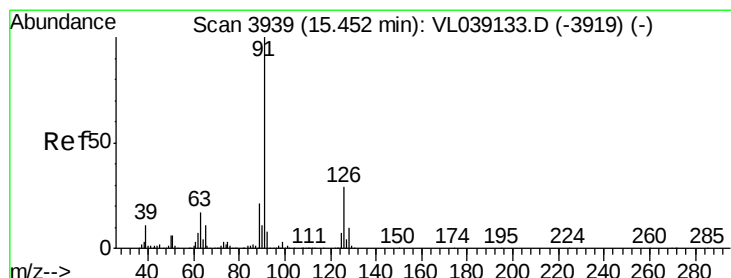
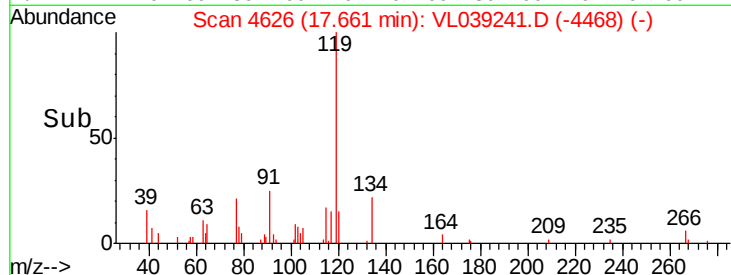
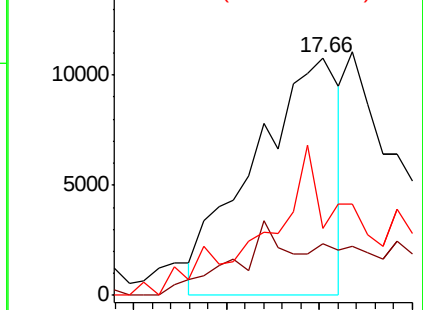


#69
 p-Isopropyltoluene
 Concen: 0.038 ppbv
 RT: 17.66
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 8 Jun 2022 19:05

Tot Ion	Ratio	Lower	Upper
119	100		
134	31.5	20.4	30.6#
91	86.4	24.2	36.4#

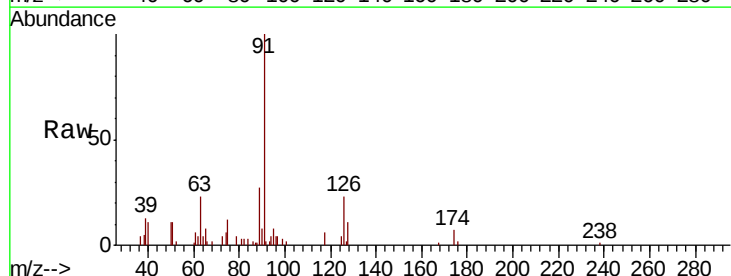


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

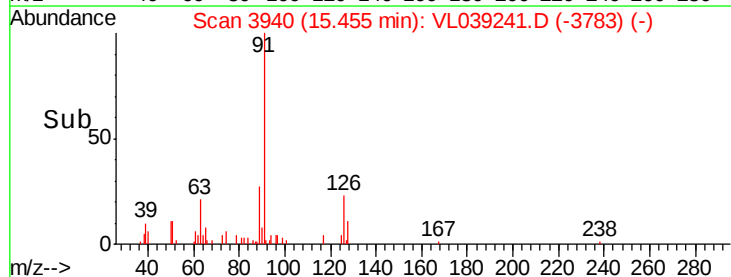
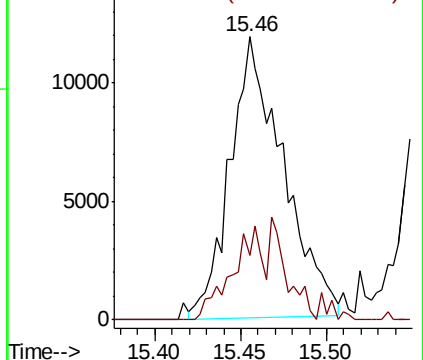


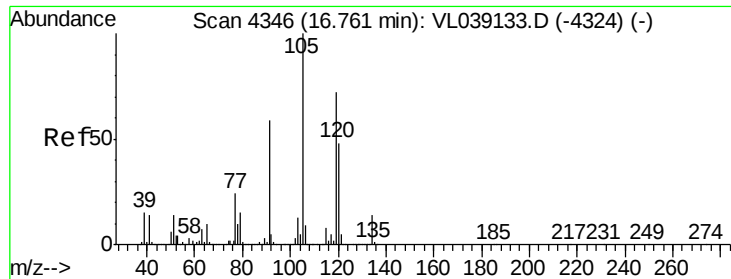
#71
 2-Chlorotoluene
 Concen: 0.097 ppbv
 RT: 15.46 min Scan# 3940
 Delta R.T. 0.00 min
 Lab File: VL039241.D
 Acq: 8 Jun 2022 19:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.0	12.2	48.6



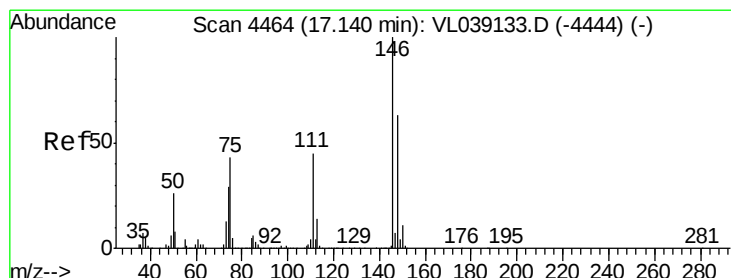
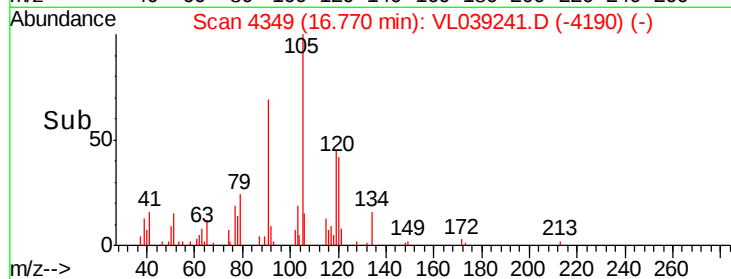
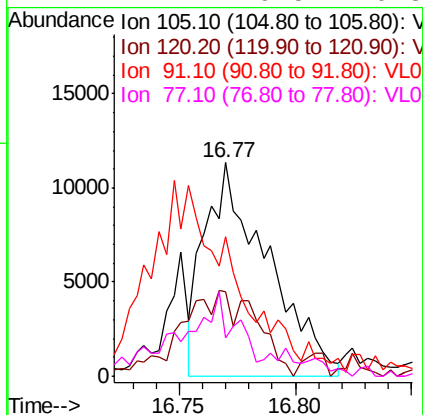
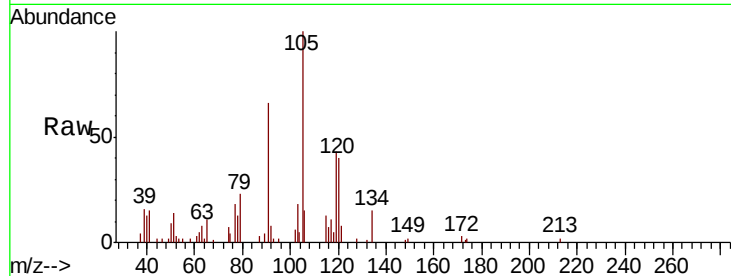
Abundance Ion 91.10 (90.80 to 91.80): V
 Ion 126.10 (125.80 to 126.80): V





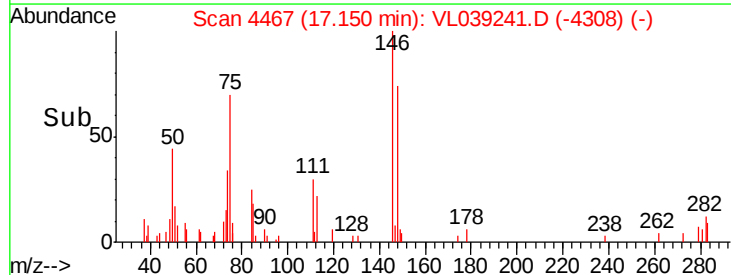
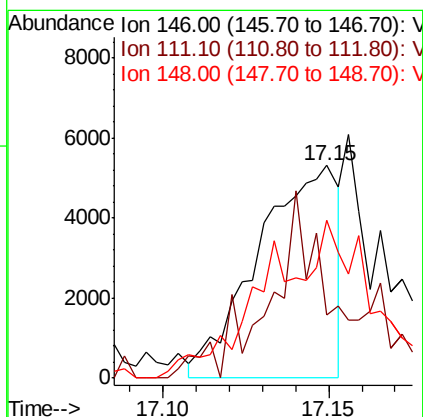
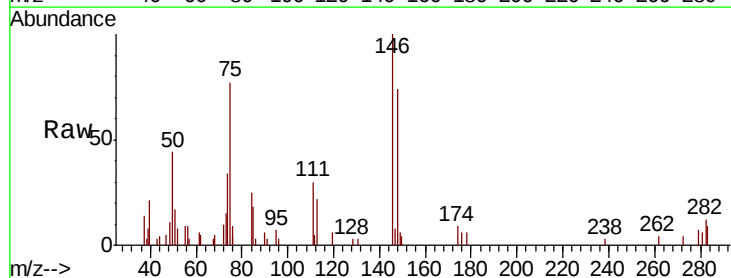
#74
 1,2,4-Trimethylbenzene
 Concen: 0.078 ppbv
 RT: 16.77 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 LOD-MDL-AIR-01-QT2-2022
 Acq: 8 Jun 2022 19:05

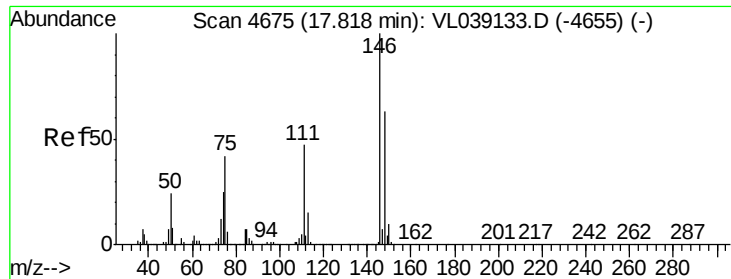
Tot Ion:	105	Resp:	21339
Ion	Ratio	Lower	Upper
105	100		
120	38.4	38.1	57.1
91	69.6	47.4	71.0
77	12.4	19.5	29.3#



#76
 1,4-Dichlorobenzene
 Concen: 0.058 ppbv
 RT: 17.15 min Scan# 4467
 Delta R.T. 0.01 min
 Lab File: VL039241.D
 Acq: 8 Jun 2022 19:03

Tgt Ion:	146	Resp:	8929
Ion	Ratio	Lower	Upper
146	100		
111	83.1	23.6	71.0#
148	114.8	33.7	101.0#





#77

1,2-Dichlorobenzene

Concen: 0.054 ppbv

RT: 17.82 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Jun 2022 19:05 LOD-MDL-AIR-01-OT2-2022

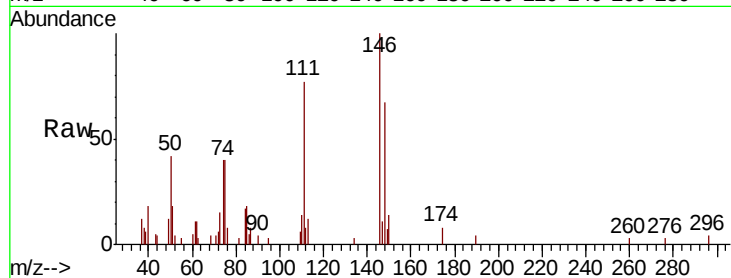
Tot Ion:146 Resp: 8462

Ion Ratio Lower Upper

146 100

111 91.7 24.4 73.4#

148 122.1 32.1 96.5#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

