

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050621\
 Data File : VL036901.D
 Acq On : 6 May 2021 13:36
 Operator : SY/AP
 Sample : M2262-13 0.4
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

Quant Time: May 07 08:10:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1430339	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	3275281	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2880074	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2345049	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	141875	0.630	ppbv	94
3) Chlorodifluoromethane	2.99	51	126246	0.485	ppbv	99
4) Chloromethane	3.14	50	25675	0.300	ppbv	91
5) Vinyl Chloride	3.27	62	28924	0.335	ppbv #	85
6) Bromomethane	3.48	94	14907	0.321	ppbv #	80
7) Chloroethane	3.56	64	5672	0.200	ppbv	97
8) Dichlorotetrafluoroethane	3.19	85	105844	0.515	ppbv	97
9) Propene	3.02	41	24773	0.312	ppbv	85
10) Heptane	8.13	43	50931	0.255	ppbv	99
11) Trichlorofluoromethane	3.95	101	91192	0.454	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.49	101	58866	0.437	ppbv	96
13) Ethanol	3.64	45	3580	0.354	ppbv #	34
14) Bromoethene	3.74	108	21843	0.397	ppbv	86
15) Acetone	3.88	43	32848	0.244	ppbv #	48
16) 1,3-Butadiene	3.34	39	25870	0.300	ppbv #	78
18) 1,1-Dichloroethene	4.30	96	22537	0.385	ppbv #	56
19) Isopropyl Alcohol	4.02	45	17420	0.261	ppbv #	73
20) Methylene Chloride	4.35	84	16629	0.258	ppbv	90
21) Allvl Chloride	4.41	41	16300	0.163	ppbv #	17
22) trans-1,2-Dichloroethene	4.89	96	13877	0.236	ppbv	82
24) 1,1-Dichloroethane	5.02	63	39222	0.301	ppbv	98
25) Ethyl Acetate	5.70	43	120054	0.365	ppbv	97
26) Hexane	5.69	57	47796	0.310	ppbv #	65
27) Carbon Disulfide	4.56	76	48999	0.366	ppbv #	84
28) Methyl tert-Butyl Ether	5.06	73	24654	0.181	ppbv #	30
29) Chloroform	5.76	83	110277	0.459	ppbv	95
30) Cyclohexane	7.14	84	11401	0.093	ppbv #	1
31) cis-1,2-Dichloroethene	5.55	61	19817	0.143	ppbv	94
32) 1,1,1-Trichloroethane	6.51	97	106670	0.437	ppbv	96
34) 2-Butanone	5.28	43	20990	0.146	ppbv #	14
35) Carbon Tetrachloride	7.02	117	112158	0.505	ppbv	94
36) Benzene	6.90	78	50167	0.182	ppbv	99
37) 1,2-Dichloroethane	6.31	62	32710	0.209	ppbv #	79
38) Trichloroethene	7.84	130	19329	0.197	ppbv	87
39) 1,2-Dichloropropane	7.62	63	11639	0.105	ppbv #	76
42) Bromodichloromethane	7.80	83	37710	0.174	ppbv	91
43) Methyl Methacrylate	8.02	69	5918	0.066	ppbv #	1
44) 2,2,4-Trimethylpentane	7.88	57	149105	0.315	ppbv #	80
46) cis-1,3-Dichloropropene	8.71	75	16482	0.132	ppbv #	85
47) 1,1,2-Trichloroethane	9.48	97	10589	0.093	ppbv #	51
48) Dibromochloromethane	10.31	129	66501	0.392	ppbv	96

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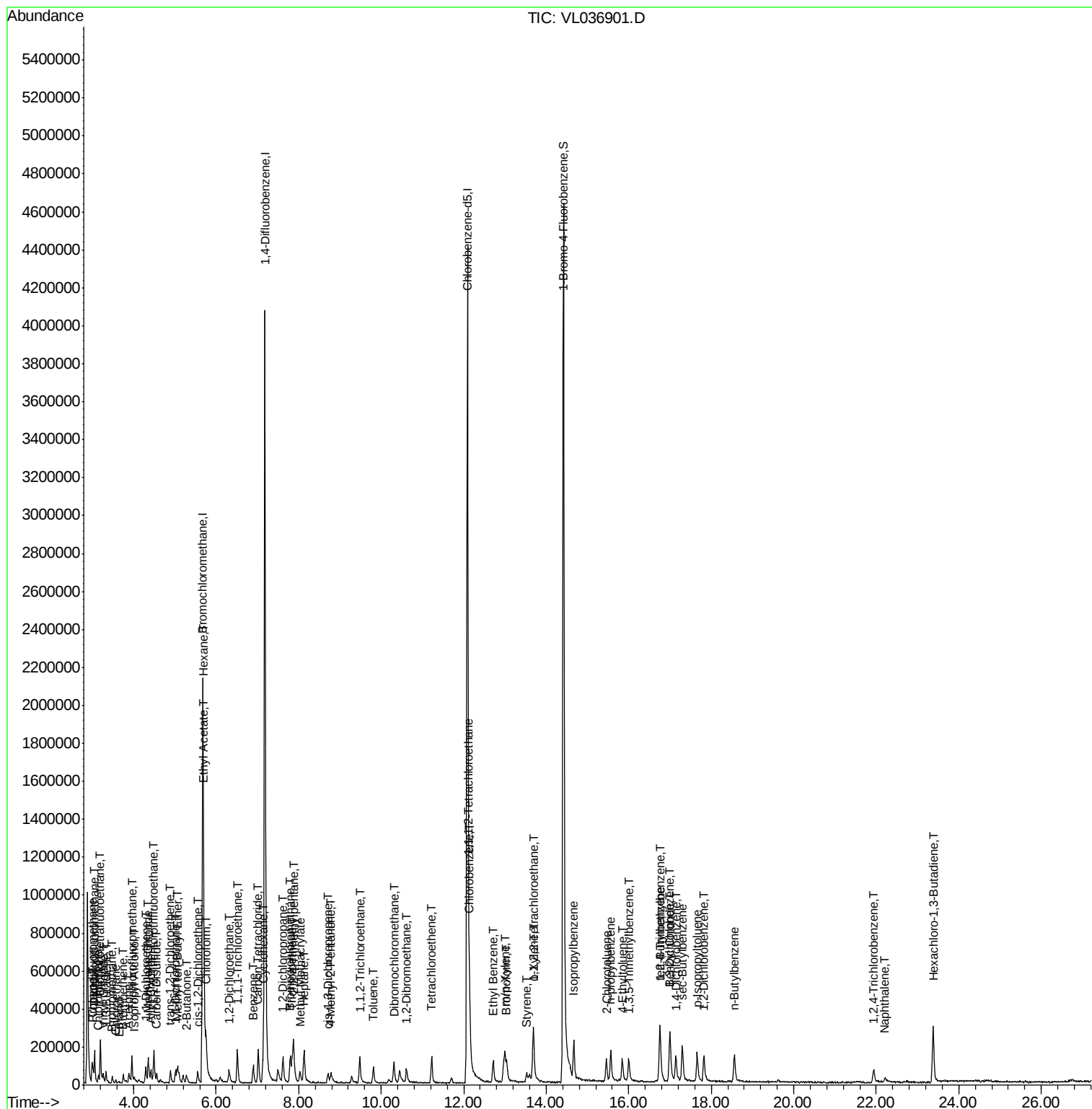
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Bromoform	13.05	173	39208	0.290	ppbv	# 65
50) 4-Methyl-2-Pentanone	8.78	43	30574	0.156	ppbv	# 79
52) Tetrachloroethene	11.23	164	11603	0.123	ppbv	# 61
53) Toluene	9.82	91	30819	0.107	ppbv	# 20
54) 1,2-Dibromoethane	10.61	107	40603	0.251	ppbv	# 82
56) 1,1,1,2-Tetrachloroethane	12.13	131	28677	0.238	ppbv	# 1
57) Chlorobenzene	12.14	112	110144	0.491	ppbv	# 88
58) Ethyl Benzene	12.72	91	92550	0.253	ppbv	# 94
59) m/p-Xylene	13.00	91	51196	0.157	ppbv	# 31
60) o-Xylene	13.69	91	100898	0.320	ppbv	# 98
61) Styrene	13.53	104	23739	0.160	ppbv	# 73
62) Isopropylbenzene	14.67	105	142158	0.331	ppbv	# 99
63) 1,1,2,2-Tetrachloroethane	13.68	83	63055	0.249	ppbv	# 16
64) n-propylbenzene	15.56	120	10008	0.093	ppbv	# 1
65) tert-Butylbenzene	16.75	119	53428	0.141	ppbv	# 17
66) Benzyl Chloride	17.00	91	3029	0.082	ppbv	# 1
67) sec-Butylbenzene	17.29	105	170260	0.323	ppbv	# 98
69) p-Isopropyltoluene	17.66	119	99319	0.235	ppbv	# 85
70) n-Butylbenzene	18.56	91	69838	0.164	ppbv	# 64
71) 2-Chlorotoluene	15.46	91	95594	0.301	ppbv	# 99
72) 4-Ethyltoluene	15.85	105	81175	0.240	ppbv	# 86
73) 1,3,5-Trimethylbenzene	16.00	105	48569	0.148	ppbv	# 92
74) 1,2,4-Trimethylbenzene	16.76	105	94325	0.270	ppbv	# 92
75) 1,3-Dichlorobenzene	17.00	146	43823	0.212	ppbv	# 19
76) 1,4-Dichlorobenzene	17.15	146	13651	0.068	ppbv	# 1
77) 1,2-Dichlorobenzene	17.82	146	44489	0.221	ppbv	# 26
78) Hexachloro-1,3-Butadiene	23.38	225	33712	0.197	ppbv	# 18
79) Naphthalene	22.22	128	13109	0.067	ppbv	# 75
81) 1,2,4-Trichlorobenzene	21.94	180	11504	0.091	ppbv	# 10

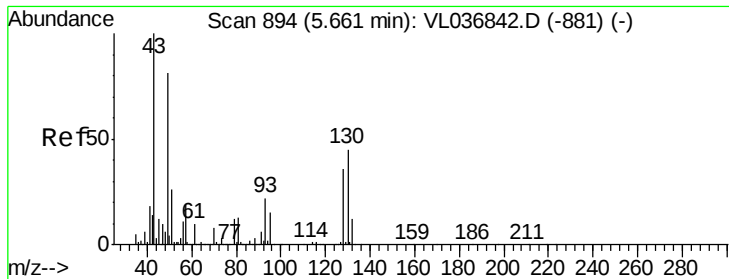
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 13:36 LOD-MDL-AIR-01-QT2-2021

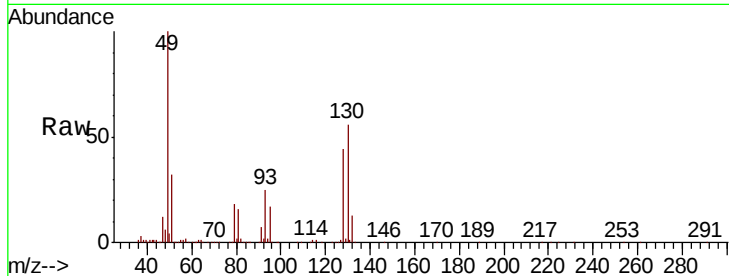
Tot Ion: 49 Resp: 1430339

Ion Ratio Lower Upper

49 100

128 43.9 24.4 73.2

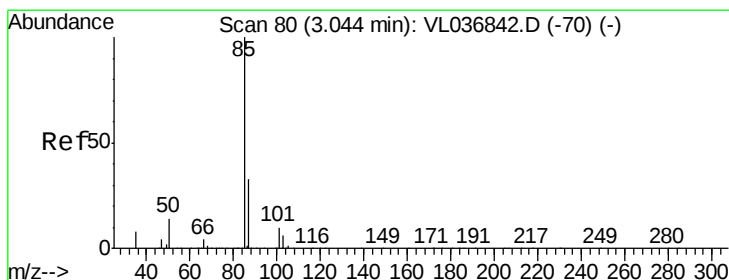
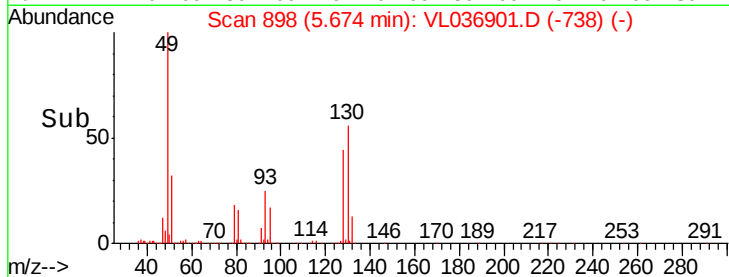
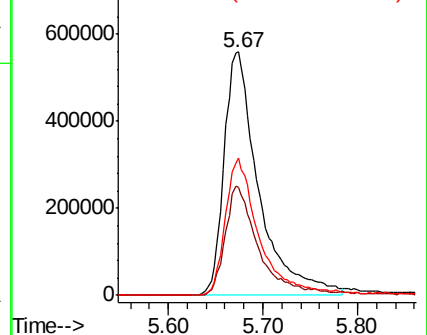
130 55.9 30.3 90.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.630 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036901.D

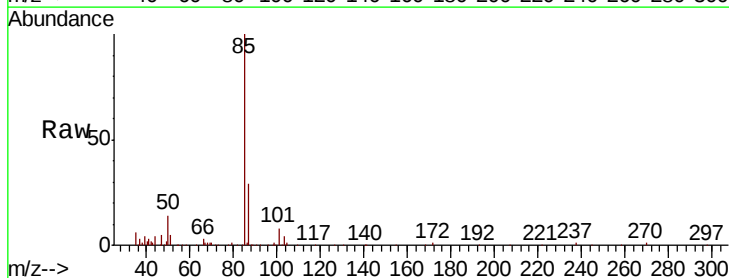
Acq: 6 May 2021 13:36

Tgt Ion: 85 Resp: 141875

Ion Ratio Lower Upper

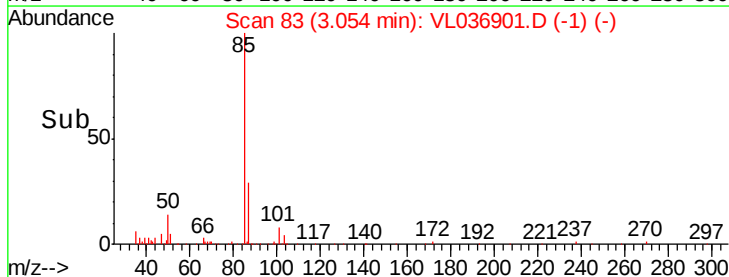
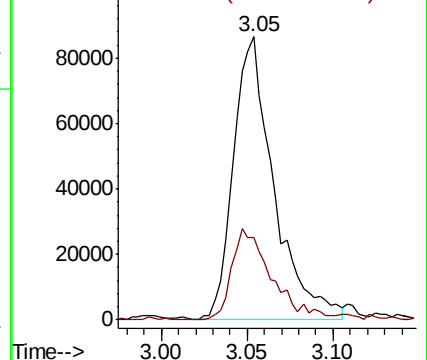
85 100

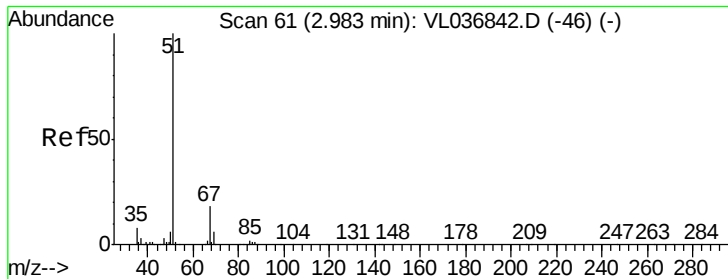
87 29.2 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.485 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

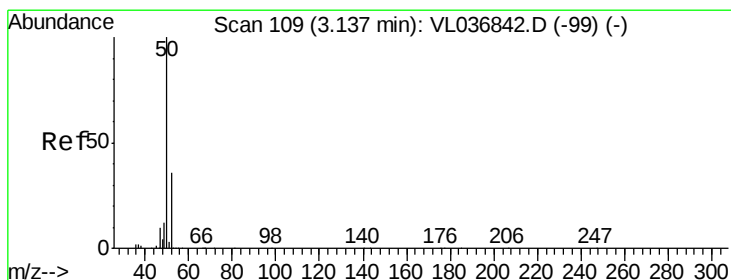
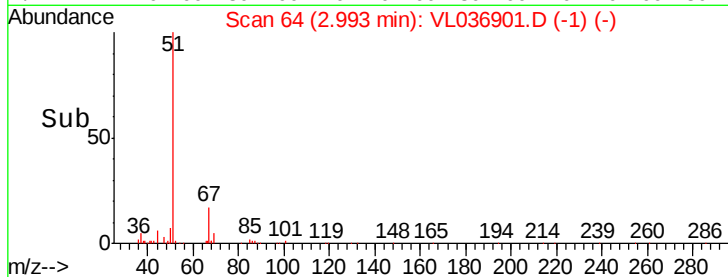
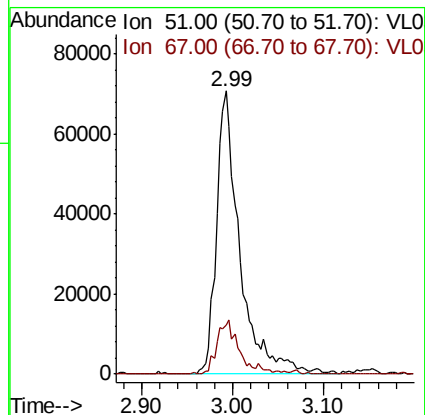
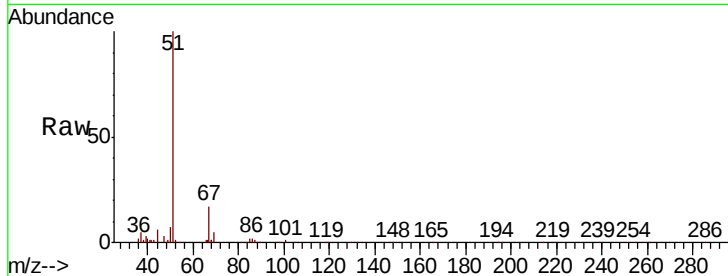
Acq: 6 May 2021 13:36

Tot Ion: 51 Resp: 126246

Ion Ratio Lower Upper

51 100

67 19.2 14.8 22.2



#4

Chloromethane

Concen: 0.300 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL036901.D

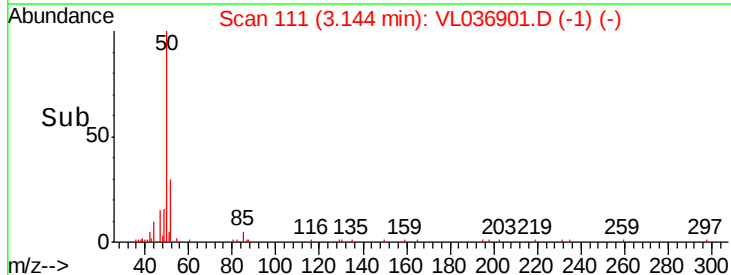
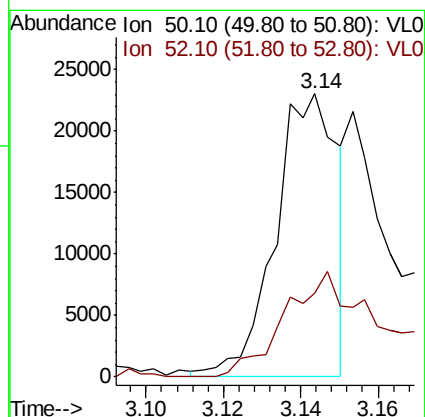
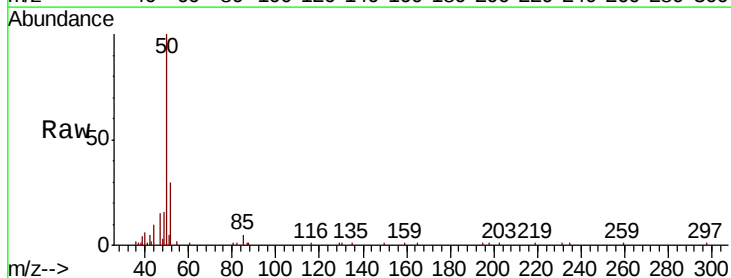
Acq: 6 May 2021 13:36

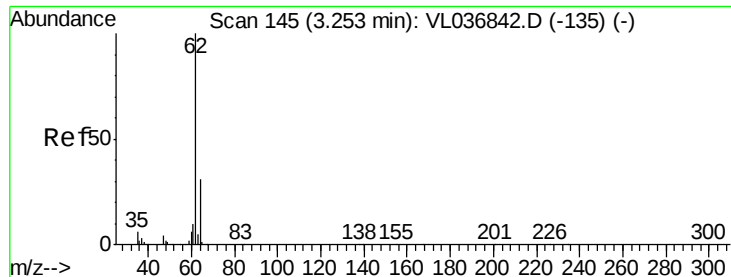
Tgt Ion: 50 Resp: 25675

Ion Ratio Lower Upper

50 100

52 30.2 28.5 42.7





#5

Vinyl Chloride

Concen: 0.335 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

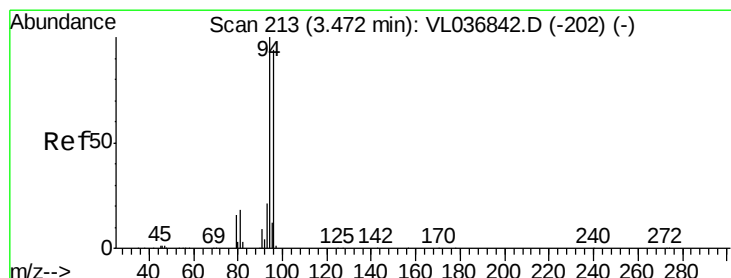
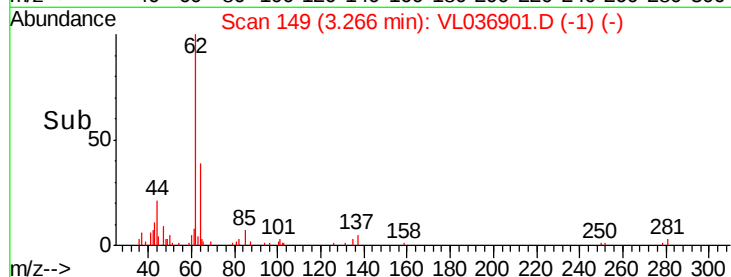
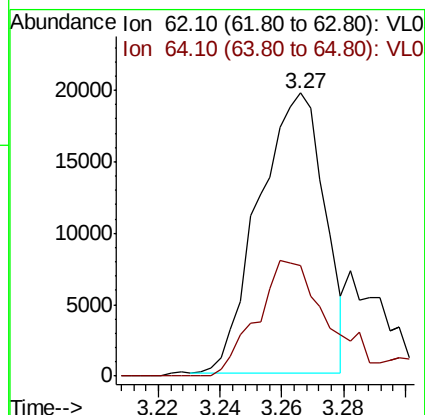
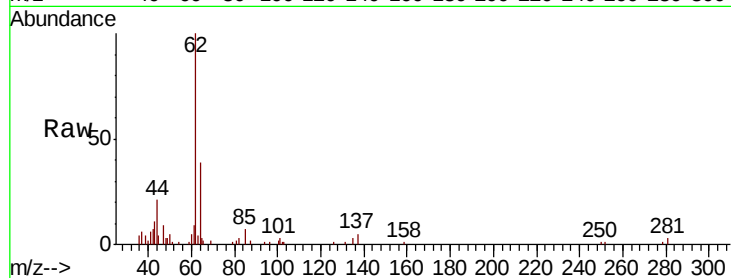
Acq: 6 May 2021 13:30 LOD-MDL-AIR-01-OT2-2021

Tot Ion: 62 Resp: 28924

Ion Ratio Lower Upper

62 100

64 39.6 25.0 37.4#



#6

Bromomethane

Concen: 0.321 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.01 min

Lab File: VL036901.D

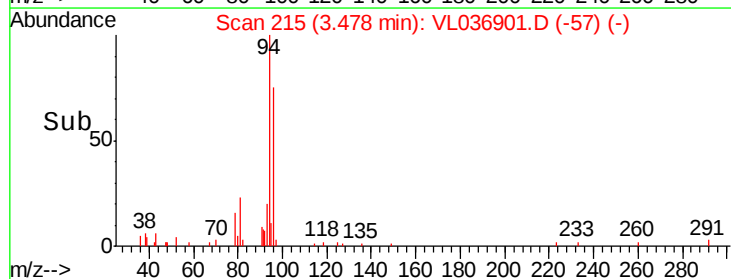
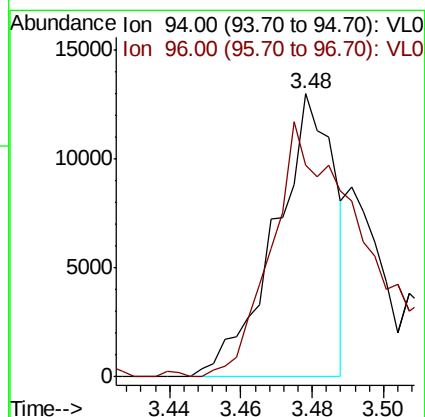
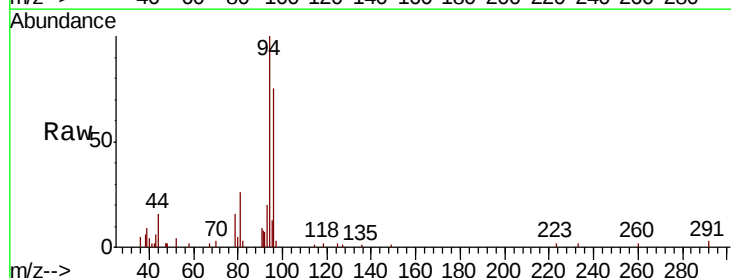
Acq: 6 May 2021 13:36

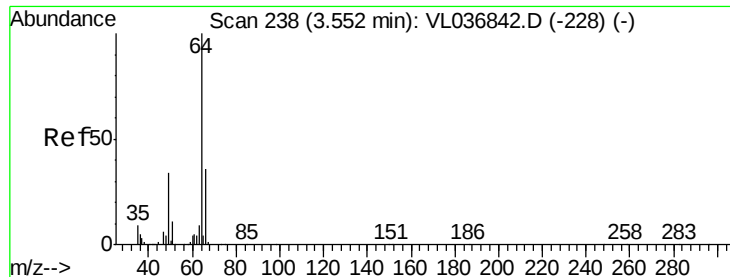
Tgt Ion: 94 Resp: 14907

Ion Ratio Lower Upper

94 100

96 74.7 75.4 113.0#





#7

Chloroethane

Concen: 0.200 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

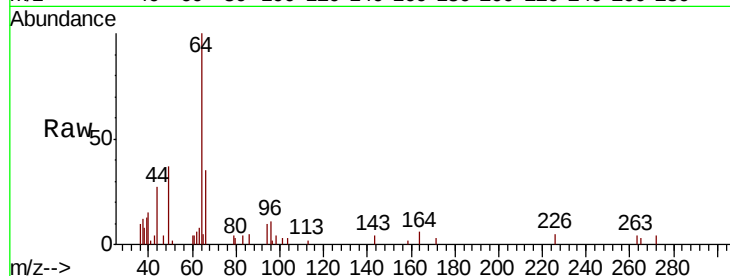
Acq: 6 May 2021 13:36 LOD-MDL-AIR-01-OT2-2021

Tot Ion: 64 Resp: 5672

Ion Ratio Lower Upper

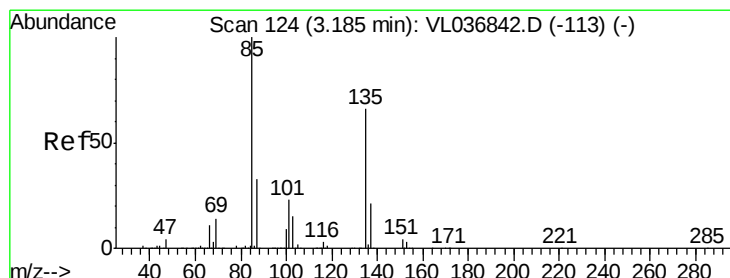
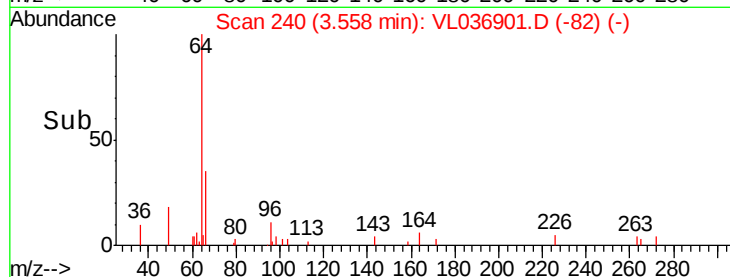
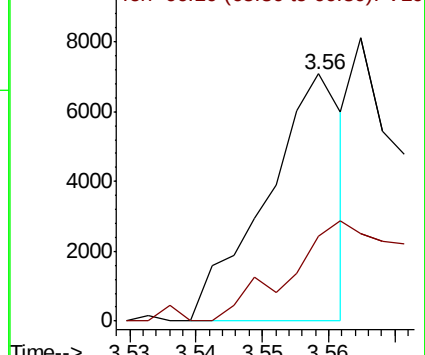
64 100

66 34.6 29.0 43.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.515 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.00 min

Lab File: VL036901.D

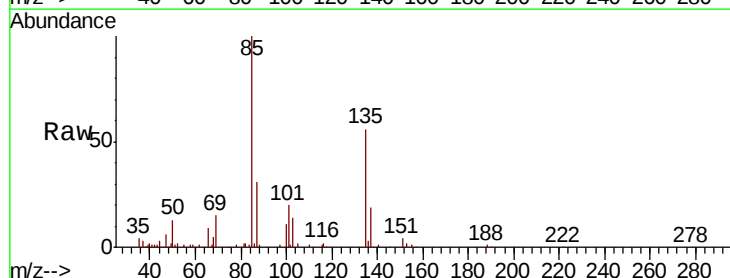
Acq: 6 May 2021 13:36

Tgt Ion: 85 Resp: 105844

Ion Ratio Lower Upper

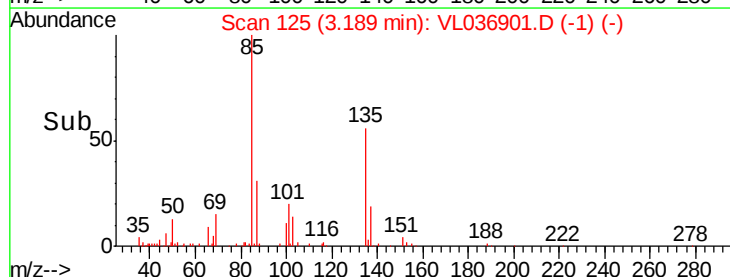
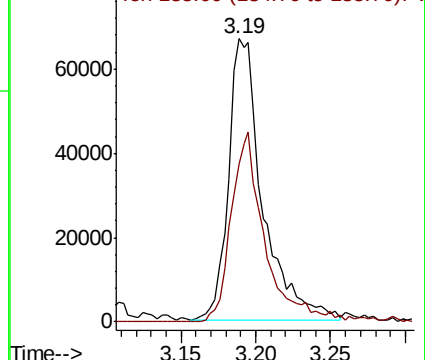
85 100

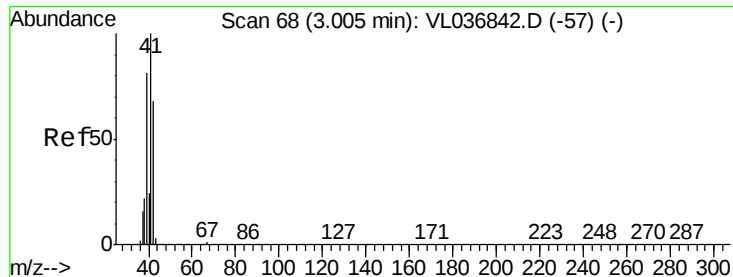
135 67.7 56.2 84.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.312 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

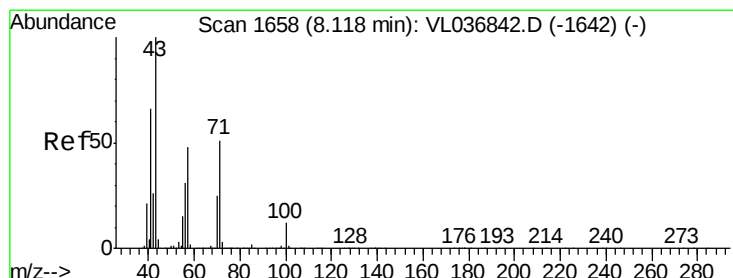
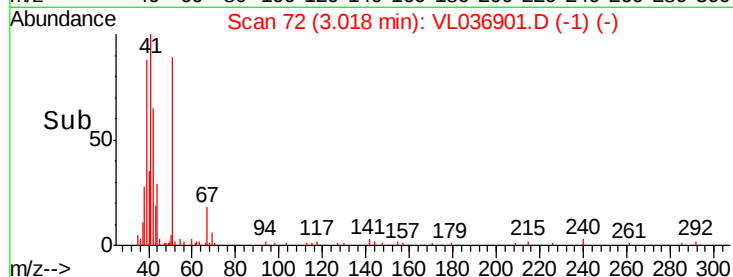
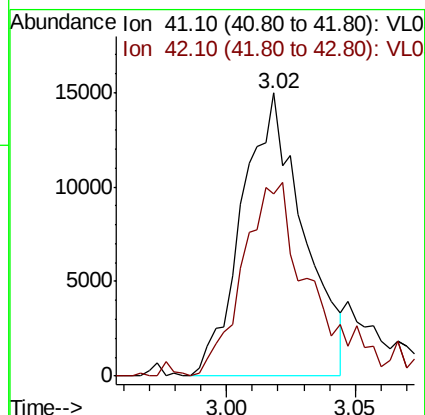
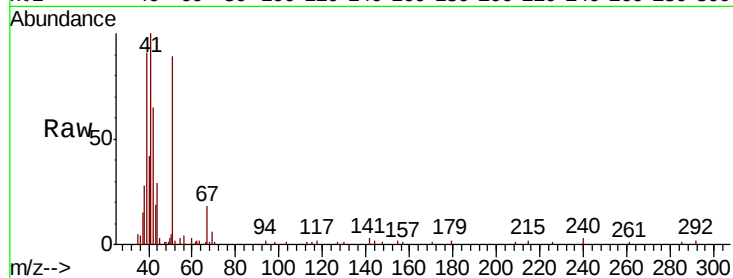
Acq: 6 May 2021 13:36 LOD-MDL-AIR-01-OT2-2021

Tot Ion: 41 Resp: 24773

Ion Ratio Lower Upper

41 100

42 82.0 56.0 84.0



#10

Heptane

Concen: 0.255 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.01 min

Lab File: VL036901.D

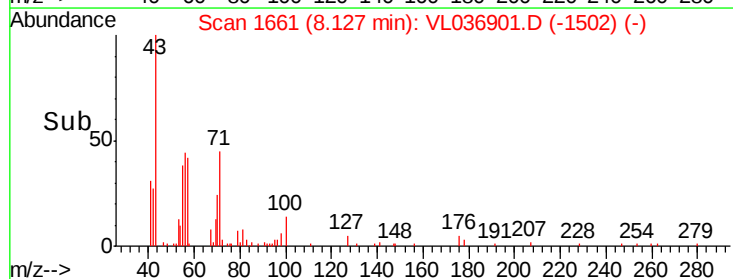
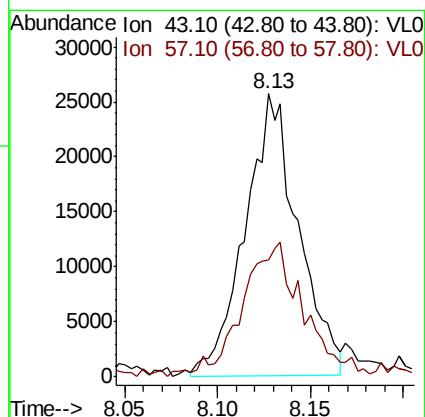
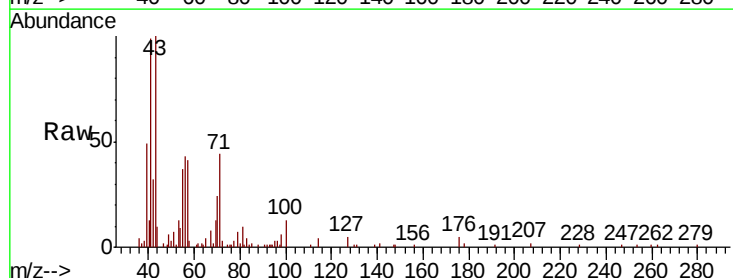
Acq: 6 May 2021 13:36

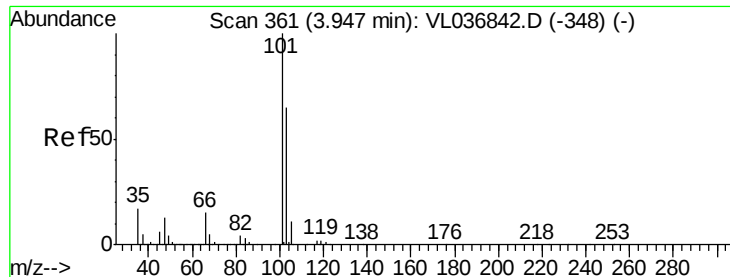
Tgt Ion: 43 Resp: 50931

Ion Ratio Lower Upper

43 100

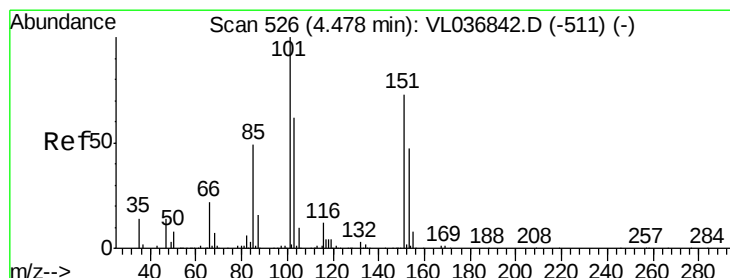
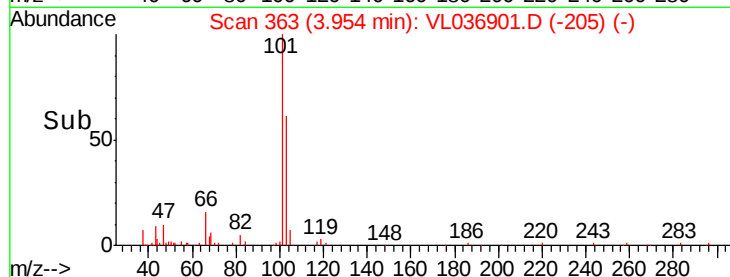
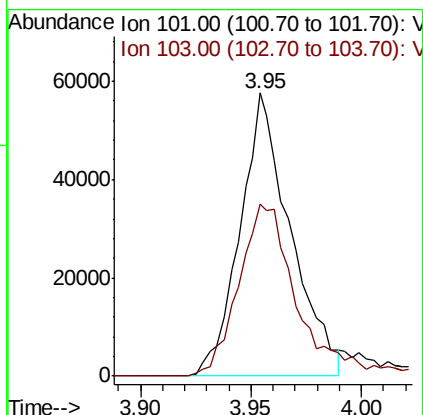
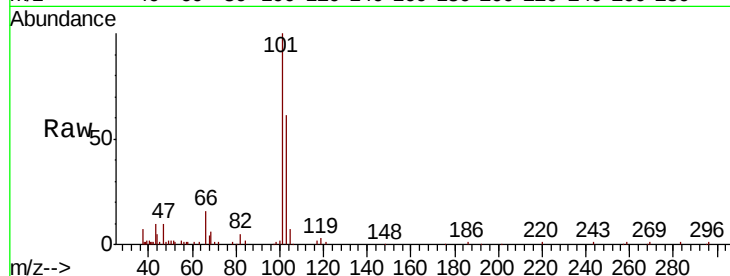
57 49.3 38.8 58.2





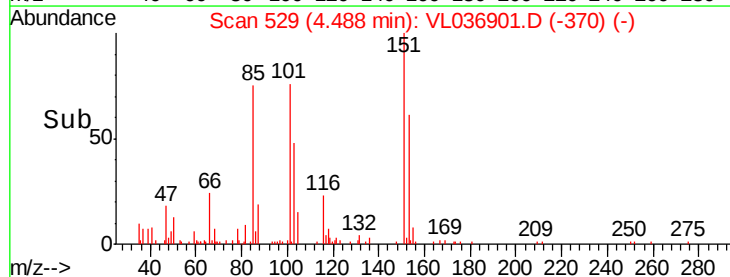
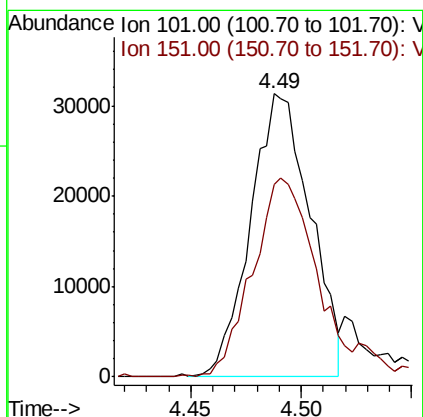
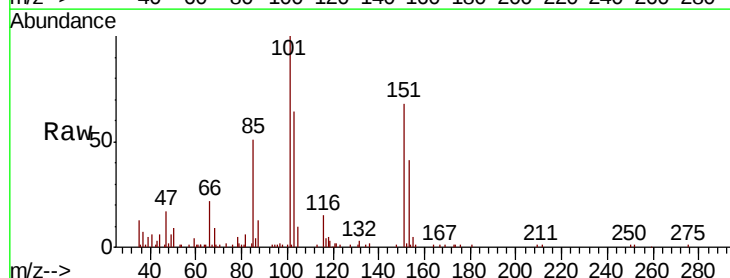
#11
 Trichlorofluoromethane
 Concen: 0.454 ppbv
 RT: 3.95 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 LOD-MDL-AIR-01-OT2-2021
 Acq: 6 May 2021 13:30

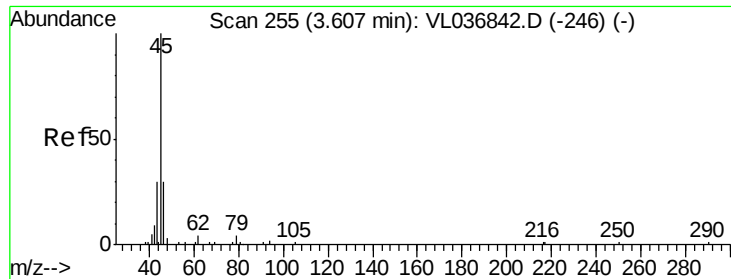
Tot Ion:101 Resp: 91192
 Ion Ratio Lower Upper
 101 100
 103 60.2 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.437 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T.: 0.01 min
 Lab File: VL036901.D
 Acq: 6 May 2021 13:36

Tgt Ion:101 Resp: 58866
 Ion Ratio Lower Upper
 101 100
 151 80.1 61.1 91.7





#13

Ethanol

Concen: 0.354 ppbv

RT: 3.64 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

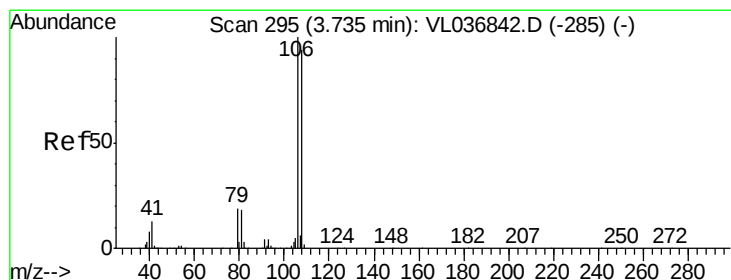
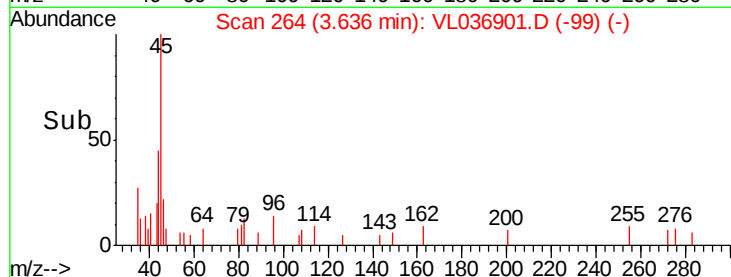
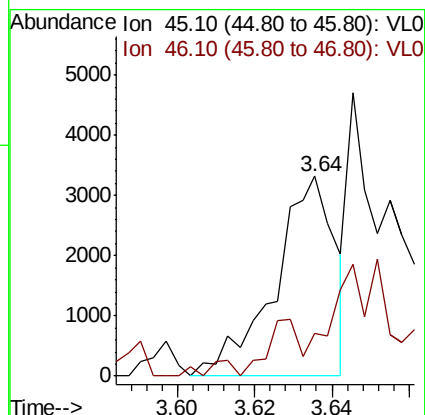
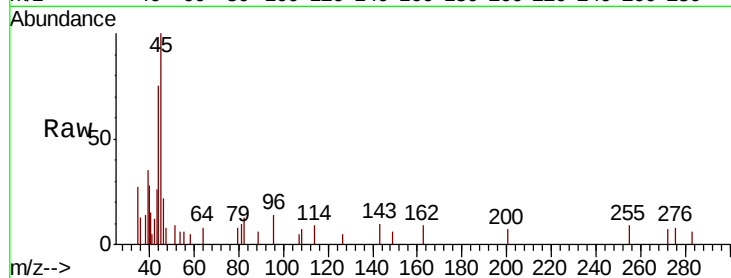
Acq: 6 May 2021 13:36 LOD-MDL-AIR-01-QT2-2021

Tot Ion: 45 Resp: 3580

Ion Ratio Lower Upper

45 100

46 0.0 16.8 67.4#



#14

Bromoethene

Concen: 0.397 ppbv

RT: 3.74 min Scan# 298

Delta R.T. 0.01 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

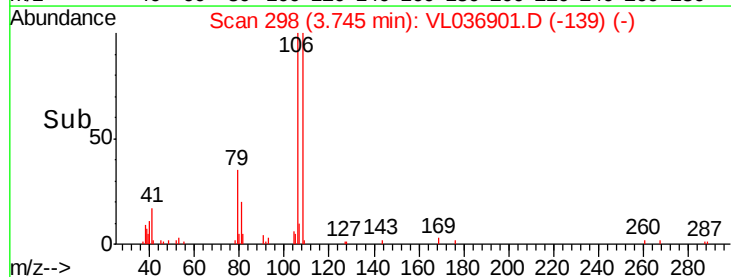
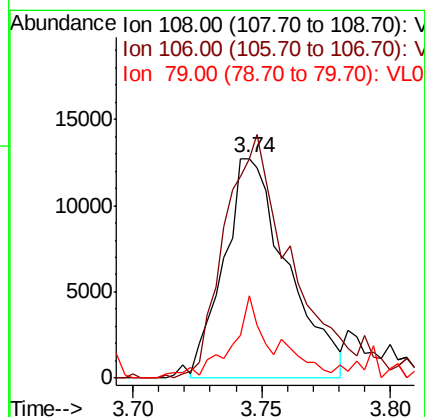
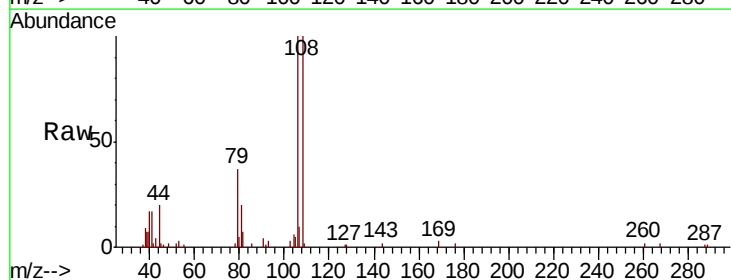
Tgt Ion: 108 Resp: 21843

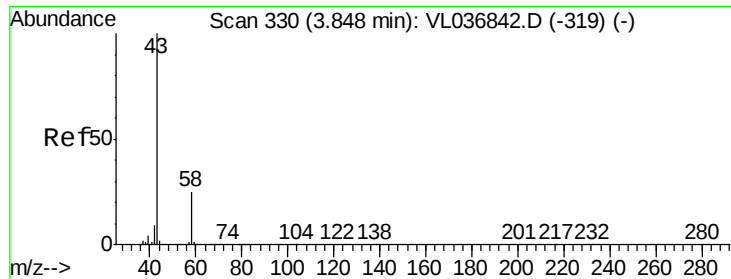
Ion Ratio Lower Upper

108 100

106 126.2 88.5 132.7

79 26.5 17.9 26.9





#15

Acetone

Concen: 0.244 ppbv

RT: 3.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

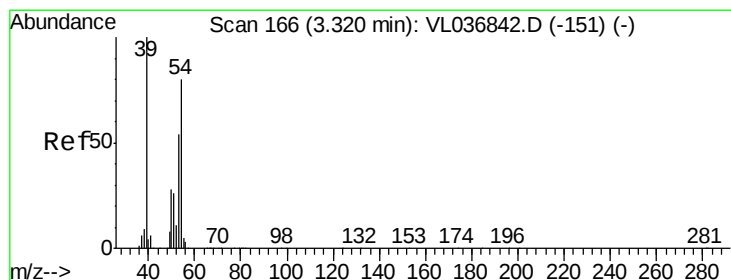
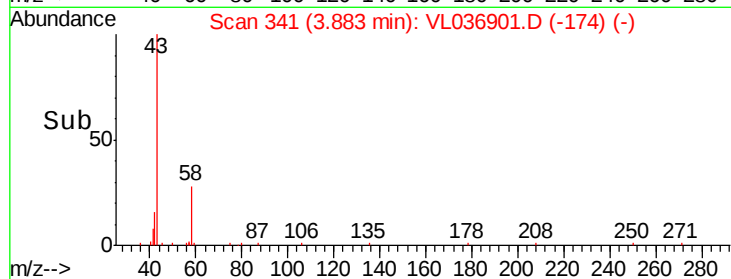
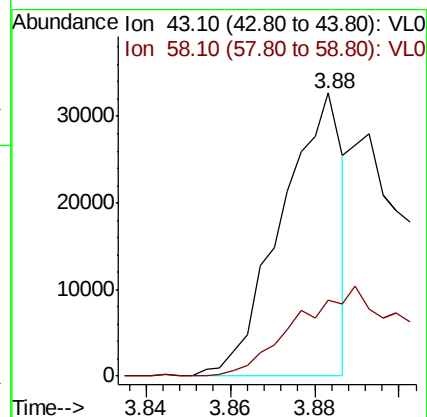
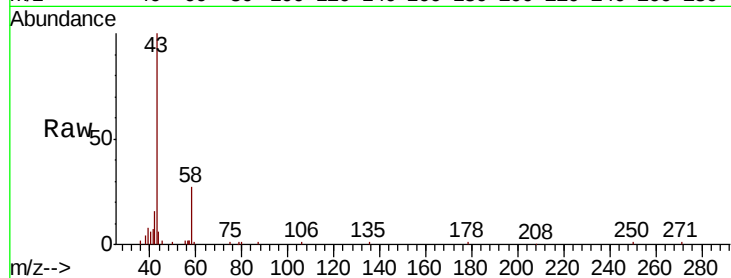
Acq: 6 May 2021 13:30 LOD-MDL-AIR-01-OT2-2021

Tot Ion: 43 Resp: 32848

Ion Ratio Lower Upper

43 100

58 0.0 21.7 32.5#



#16

1,3-Butadiene

Concen: 0.300 ppbv

RT: 3.34 min Scan# 171

Delta R.T. 0.02 min

Lab File: VL036901.D

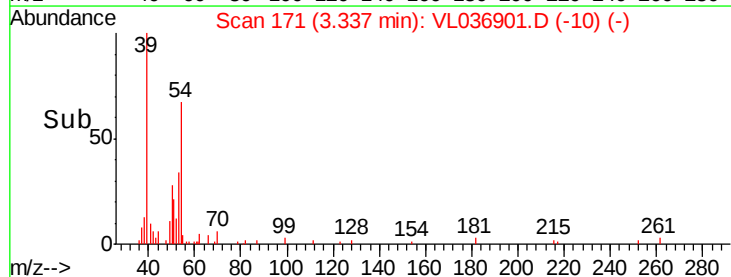
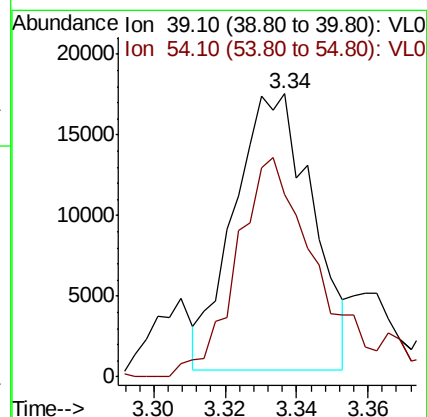
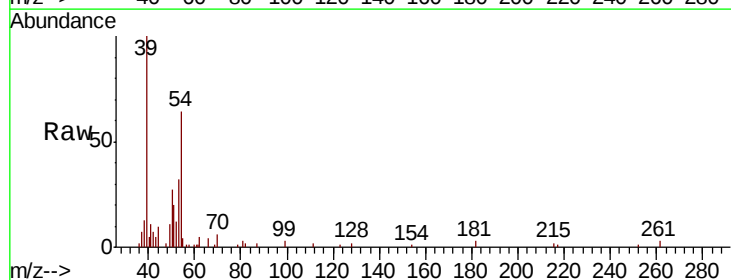
Acq: 6 May 2021 13:36

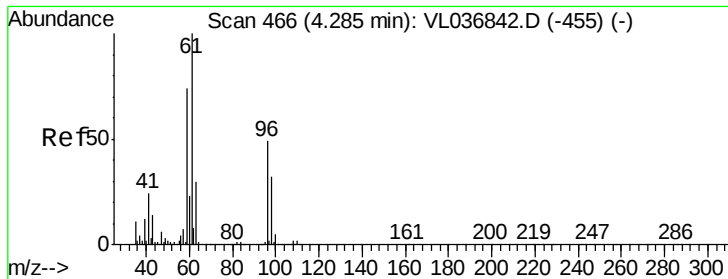
Tgt Ion: 39 Resp: 25870

Ion Ratio Lower Upper

39 100

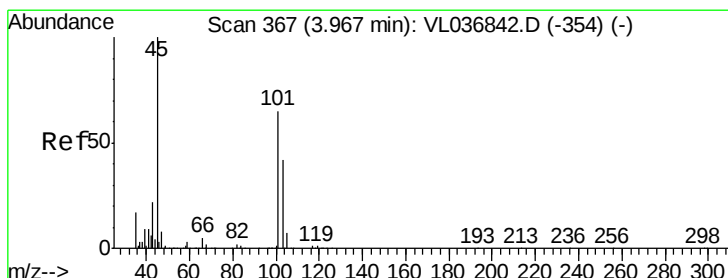
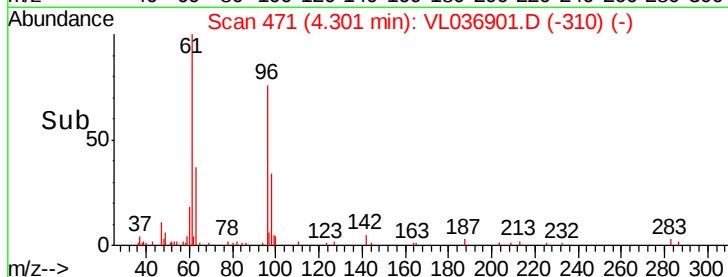
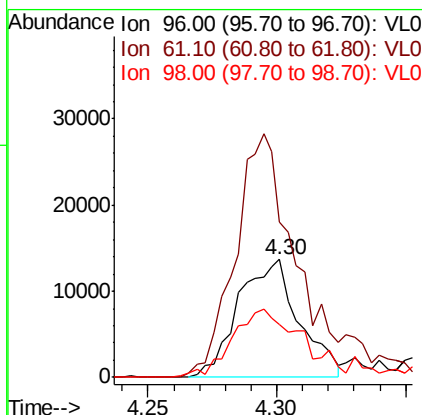
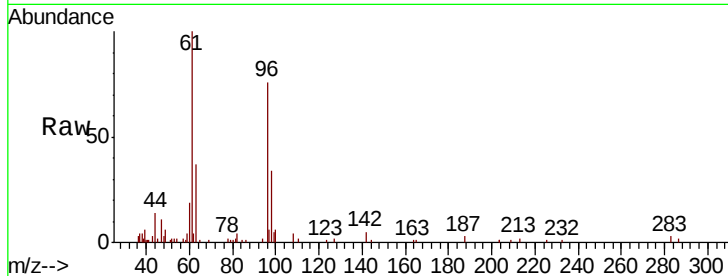
54 92.8 59.6 89.4#





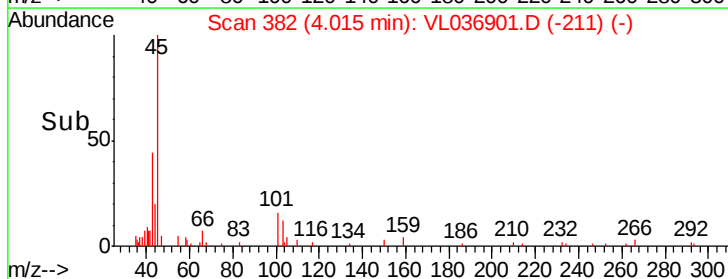
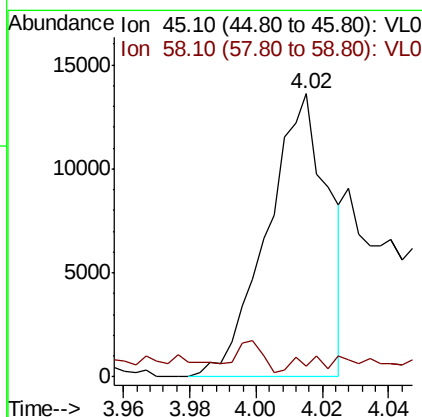
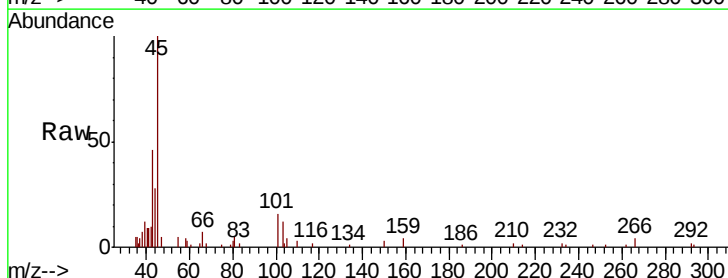
#18
 1,1-Dichloroethene
 Concen: 0.385 ppbv
 RT: 4.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 May 2021 13:30

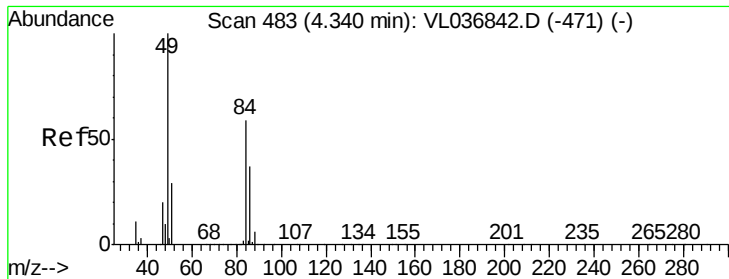
Tot Ion: 96 Resp: 22537
 Ion Ratio Lower Upper
 96 100
 61 127.8 162.2 243.2#
 98 42.0 51.8 77.6#



#19
 Isopropyl Alcohol
 Concen: 0.261 ppbv
 RT: 4.02 min Scan# 382
 Delta R.T. 0.05 min
 Lab File: VL036901.D
 Acq: 6 May 2021 13:36

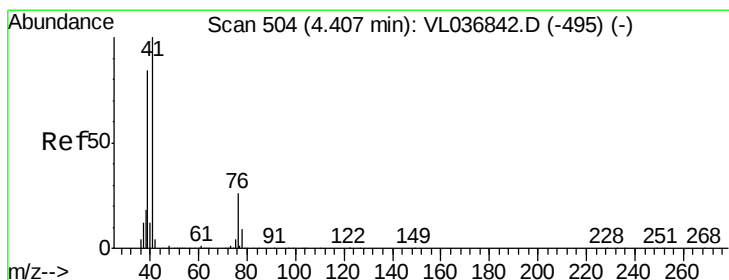
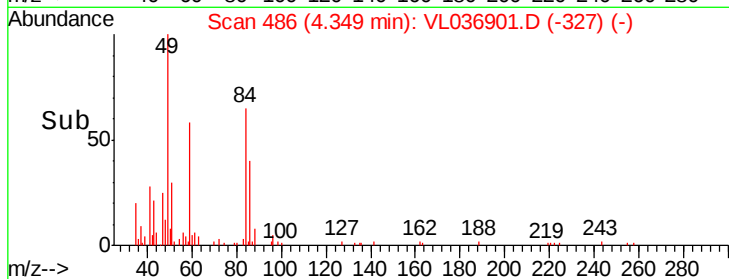
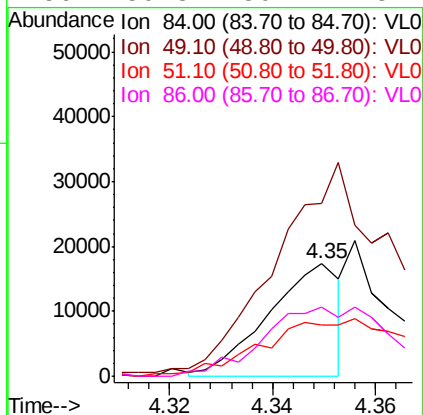
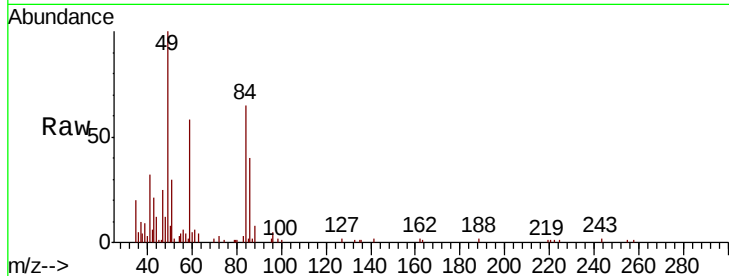
Tgt Ion: 45 Resp: 17420
 Ion Ratio Lower Upper
 45 100
 58 12.4 2.8 4.2#





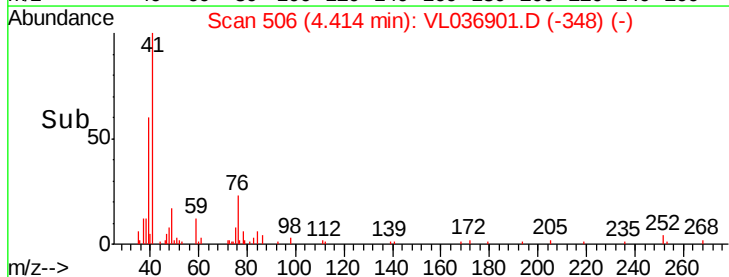
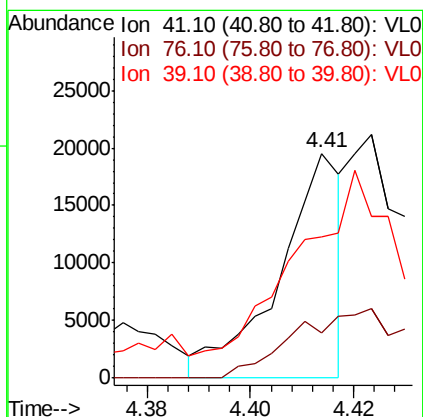
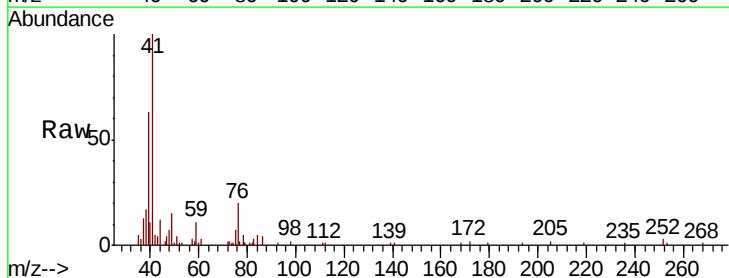
#20
Methvlene Chloride
Concen: 0.258 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId:
Acq: 6 May 2021 13:30

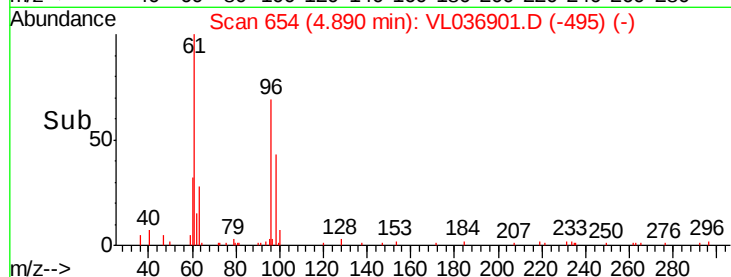
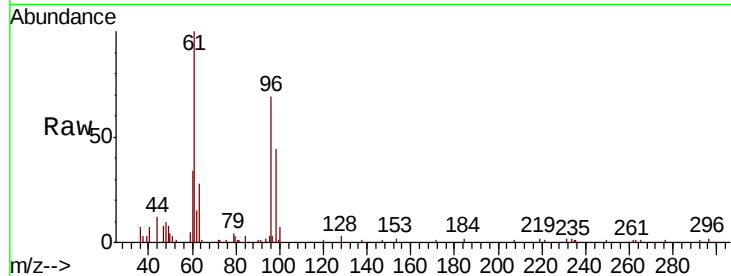
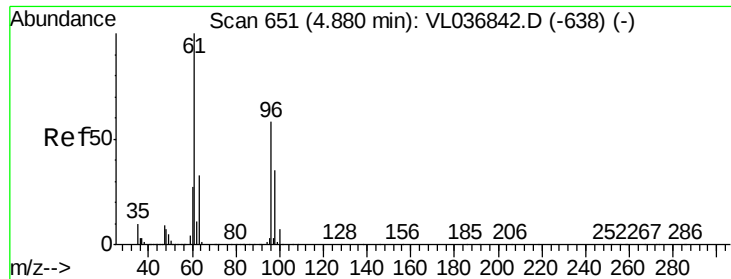
Tot Ion:	84	Resp:	16629
Ion	Ratio	Lower	Upper
84	100		
49	152.1	135.4	203.0
51	43.4	39.3	58.9
86	59.3	50.2	75.2



#21
Allyl Chloride
Concen: 0.163 ppbv
RT: 4.41 min Scan# 506
Delta R.T. 0.01 min
Lab File: VL036901.D
Acq: 6 May 2021 13:36

Tgt Ion:	41	Resp:	16300
Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.4	33.6#
39	0.0	68.4	102.6#





#22

trans-1,2-Dichloroethene

Concen: 0.236 ppbv

RT: 4.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 13:30 LOD-MDL-AIR-01-QT2-2021

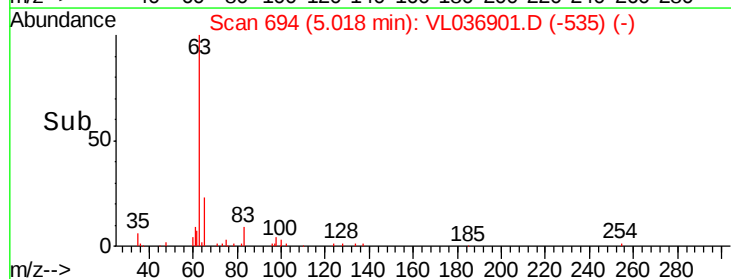
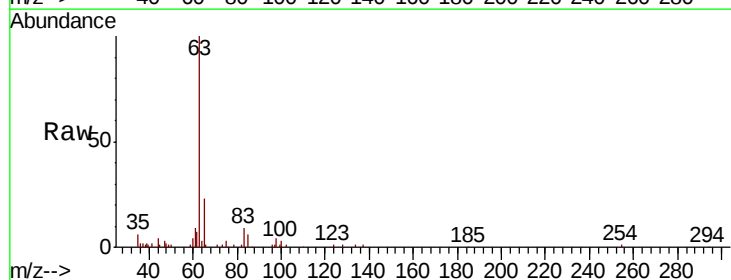
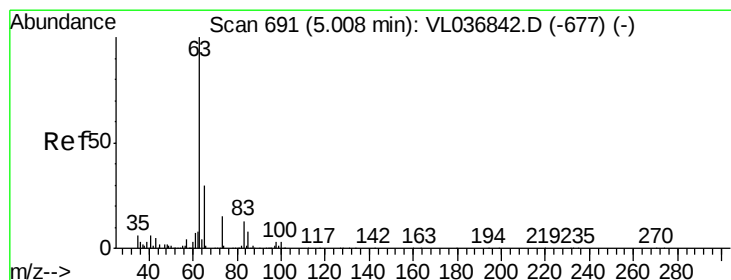
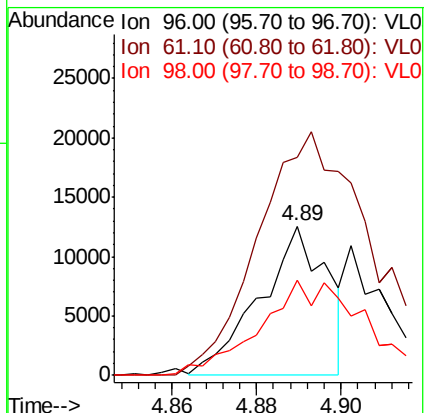
Tot Ion: 96 Resp: 13877

Ion Ratio Lower Upper

96 100

61 141.7 138.6 207.8

98 56.9 48.1 72.1



#24

1,1-Dichloroethane

Concen: 0.301 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.01 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

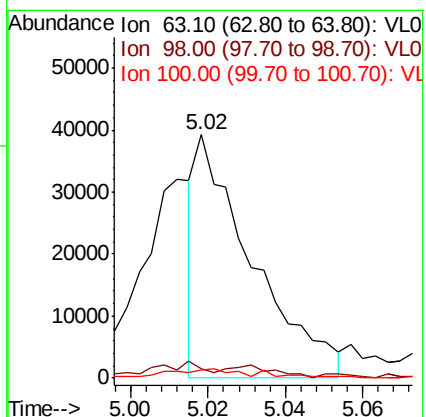
Tgt Ion: 63 Resp: 39222

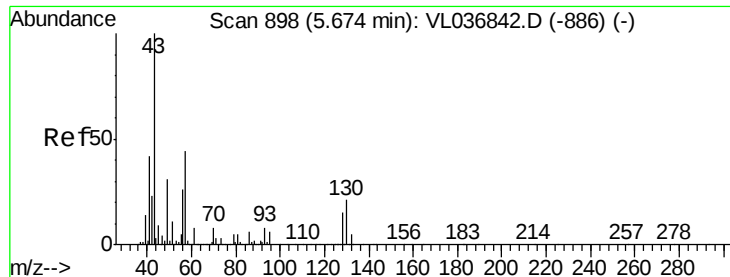
Ion Ratio Lower Upper

63 100

98 2.5 1.7 5.1

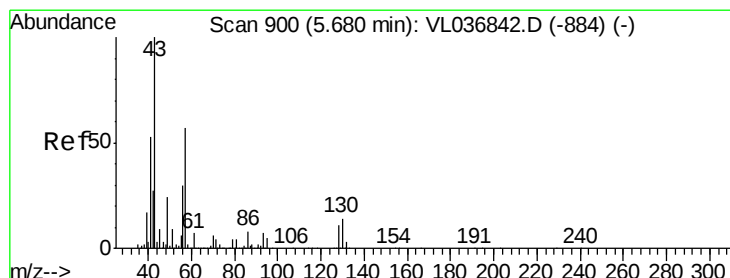
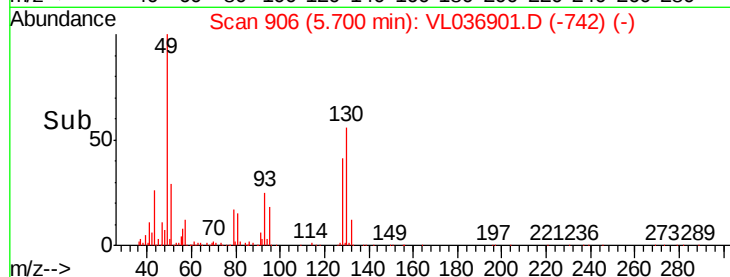
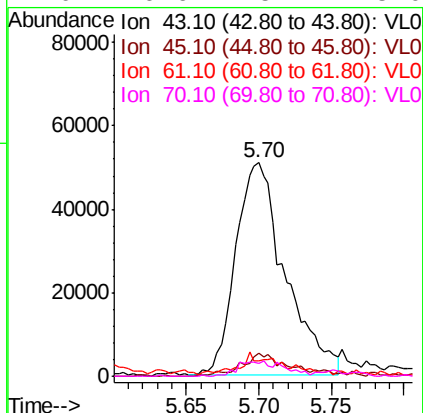
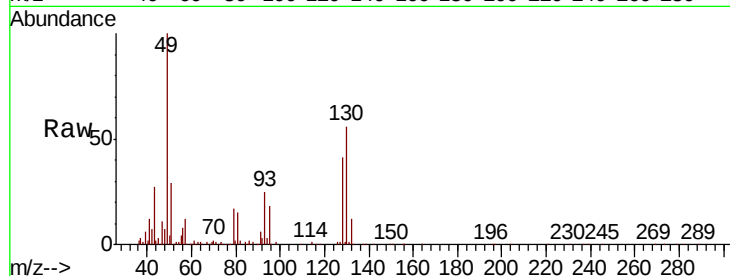
100 2.8 1.3 3.8





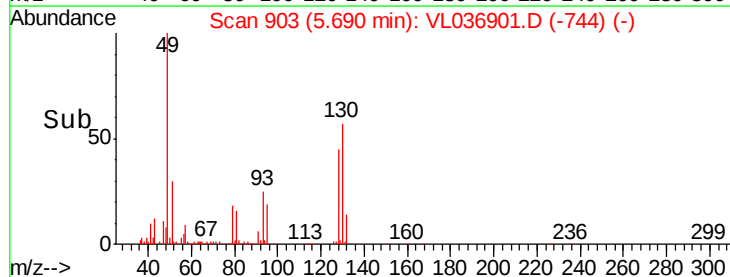
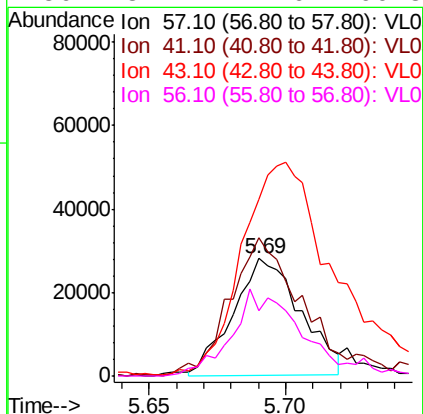
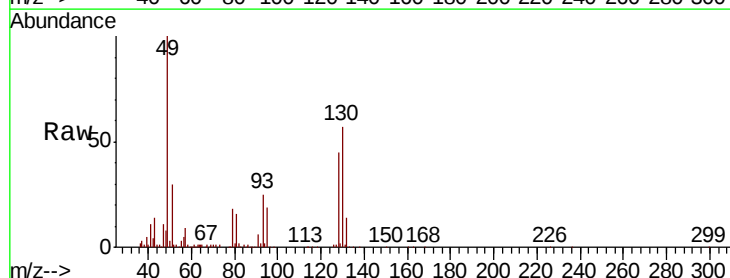
#25
Ethyl Acetate
Concen: 0.365 ppbv
RT: 5.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 6 May 2021 13:36
LOD-MDL-AIR-01-QT2-2021

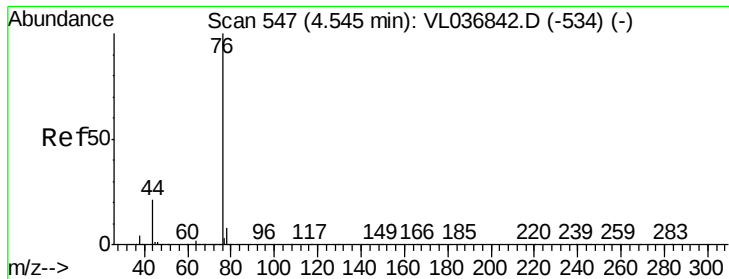
Tot Ion:	43	Resp:	120054
Ion	Ratio	Lower	Upper
43	100		
45	11.4	7.8	11.8
61	10.7	7.4	11.0
70	6.6	5.4	8.0



#26
Hexane
Concen: 0.310 ppbv
RT: 5.69 min Scan# 903
Delta R.T.: 0.01 min
Lab File: VL036901.D
Acq: 6 May 2021 13:36

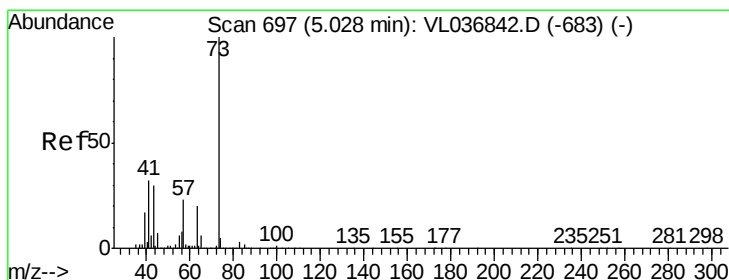
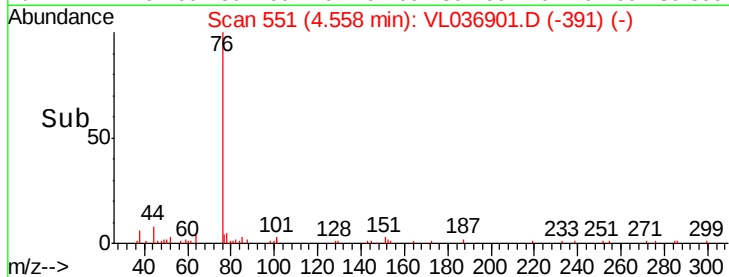
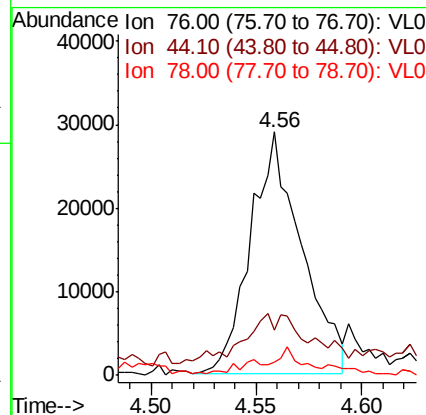
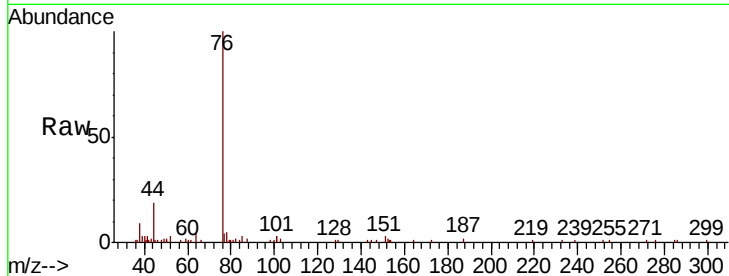
Tgt Ion:	57	Resp:	47796
Ion	Ratio	Lower	Upper
57	100		
41	141.5	77.7	116.5#
43	276.5	180.5	270.7#
56	81.2	44.6	66.8#





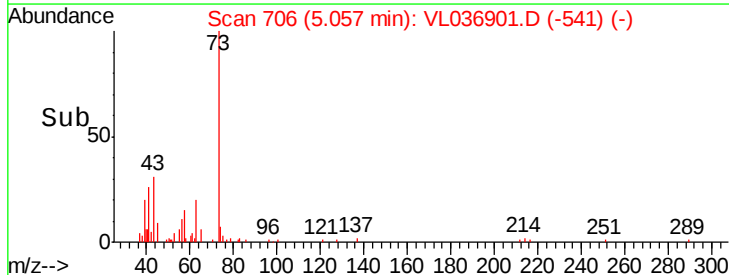
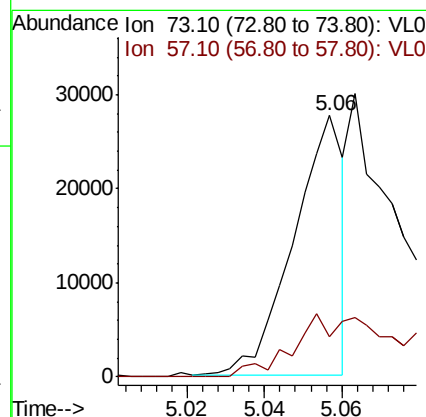
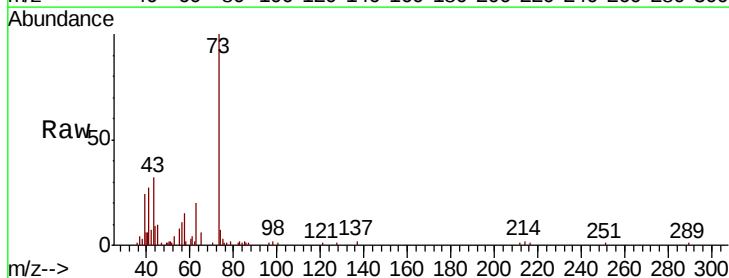
#27
Carbon Disulfide
Concen: 0.366 ppbv
RT: 4.56
Instrument: MSVOA_1
Delta R.T.:
ClientSampleId:
Lab File: LOD-MDL-AIR-01-QT2-2021
Acq: 6 May 2021 13:36

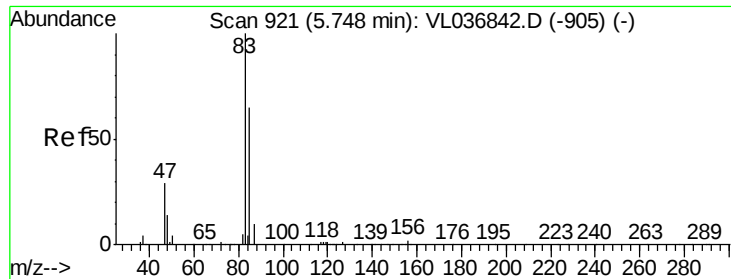
Tot Ion	Ratio	Lower	Upper
76	100		
44	30.8	16.9	25.3#
78	11.9	7.9	11.9#



#28
Methyl tert-Butyl Ether
Concen: 0.181 ppbv
RT: 5.06 min Scan# 706
Delta R.T. 0.03 min
Lab File: VL036901.D
Acq: 6 May 2021 13:36

Tgt Ion	Ratio	Lower	Upper
73	100		
57	58.4	19.0	28.6#





#29

Chloroform

Concen: 0.459 ppbv

RT: 5.76 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: LOD-MDL-AIR-01-OT2-2021

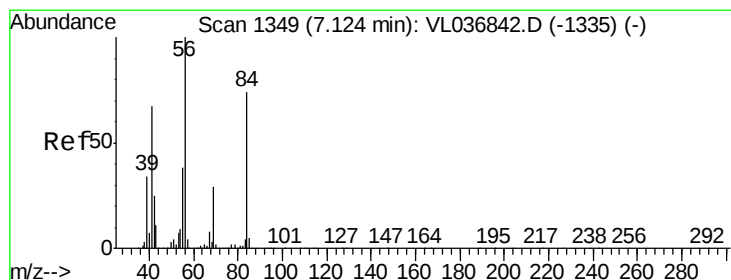
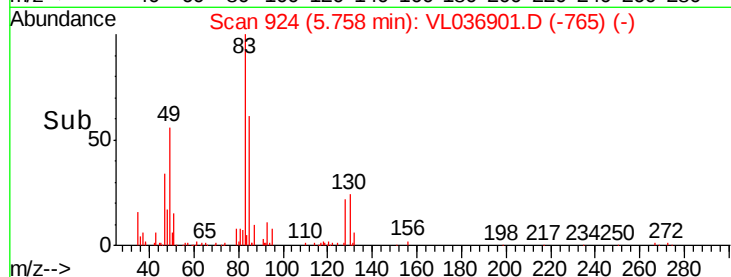
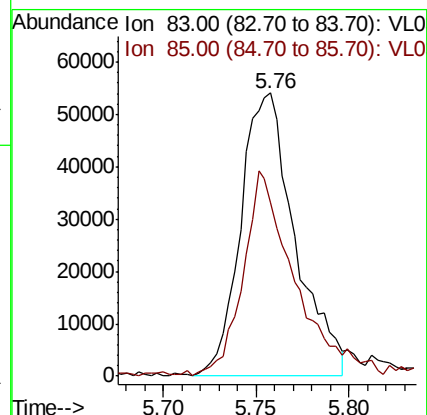
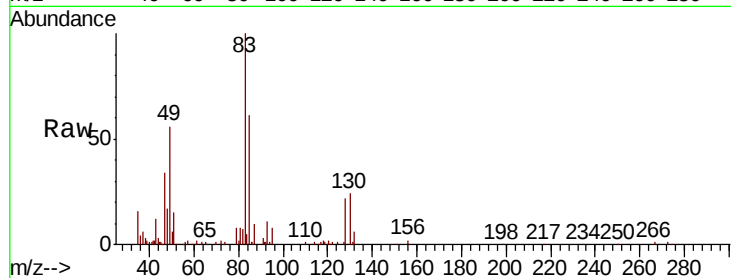
Acq: 6 May 2021 13:30

Tot Ion: 83 Resp: 110277

Ion Ratio Lower Upper

83 100

85 61.4 52.2 78.4



#30

Cyclohexane

Concen: 0.093 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.02 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

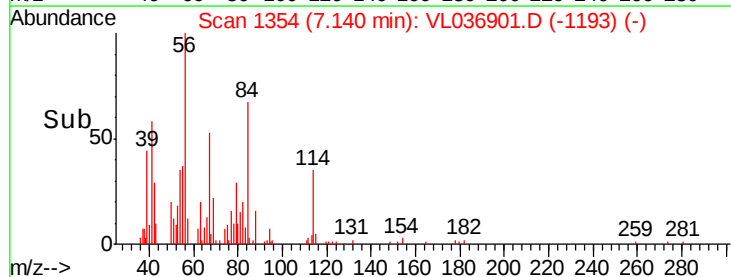
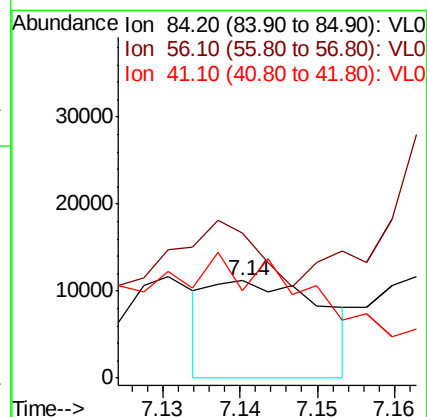
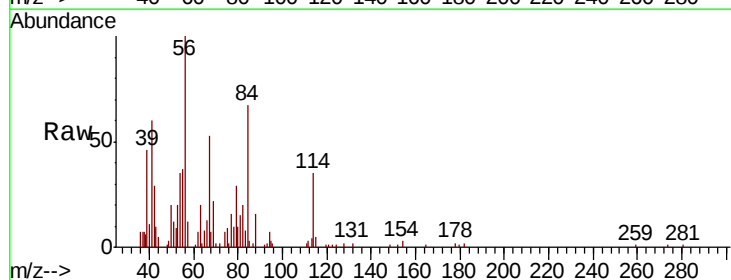
Tgt Ion: 84 Resp: 11401

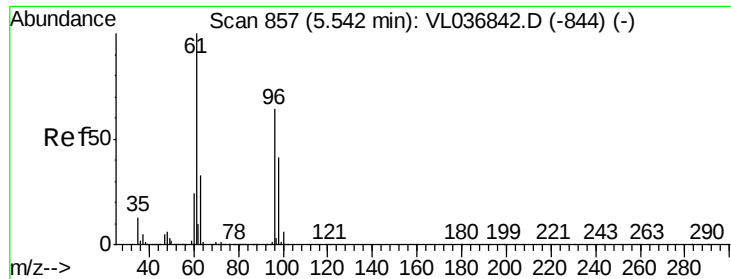
Ion Ratio Lower Upper

84 100

56 0.0 115.8 173.6#

41 321.4 74.6 111.8#





#31

cis-1,2-Dichloroethene

Concen: 0.143 ppbv

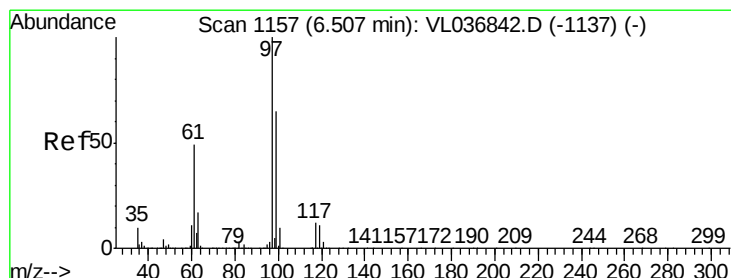
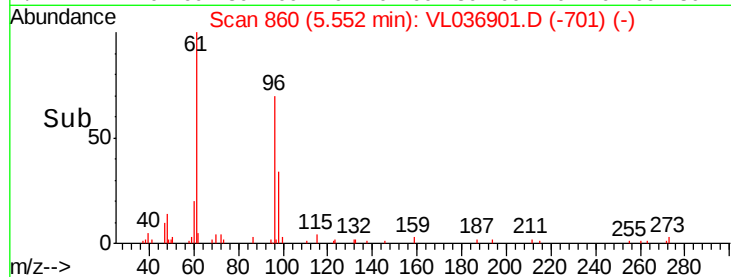
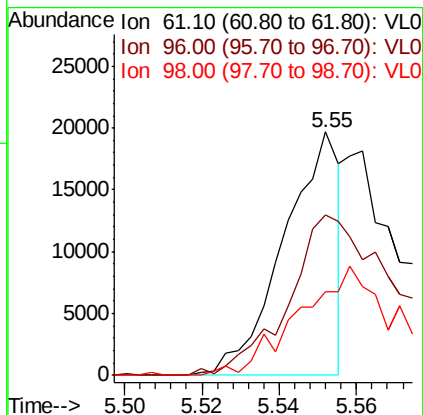
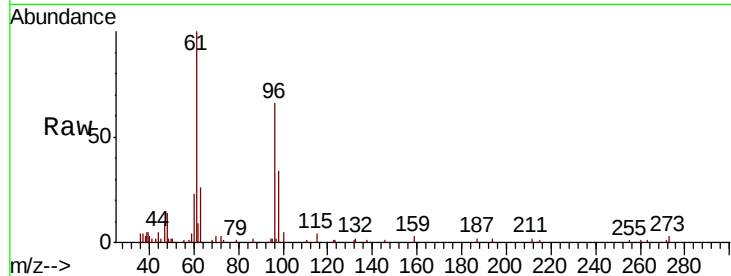
RT: 5.55 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 6 May 2021 13:30

Tot Ion:	61	Resp:	19817
Ion	Ratio	Lower	Upper
61	100		
96	65.7	51.0	76.6
98	34.1	32.7	49.1



#32

1,1,1-Trichloroethane

Concen: 0.437 ppbv

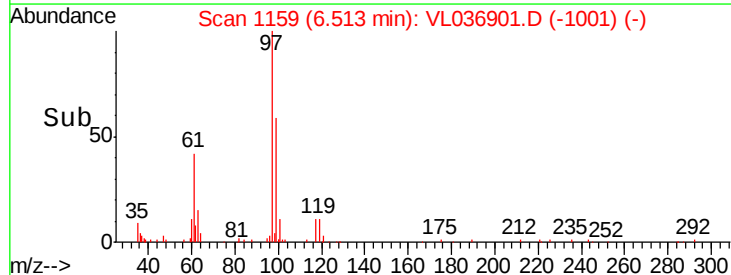
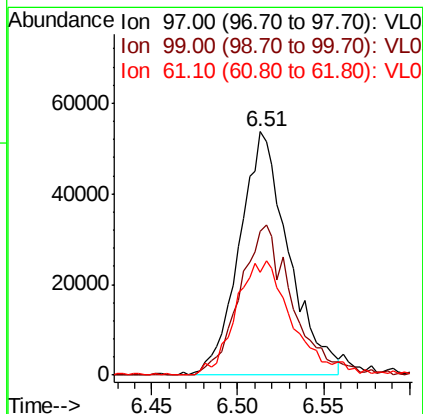
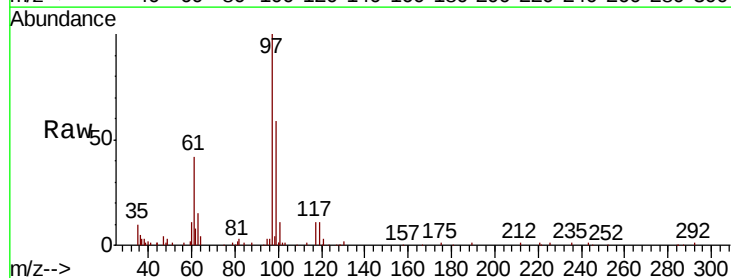
RT: 6.51 min Scan# 1159

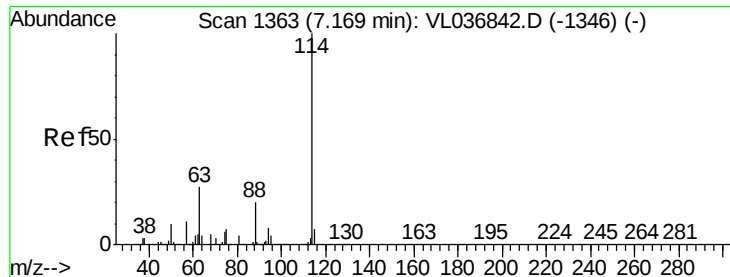
Delta R.T. 0.01 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

Tgt Ion:	97	Resp:	106670
Ion	Ratio	Lower	Upper
97	100		
99	66.3	51.8	77.6
61	55.1	40.8	61.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 13:30 LOD-MDL-AIR-01-QT2-2021

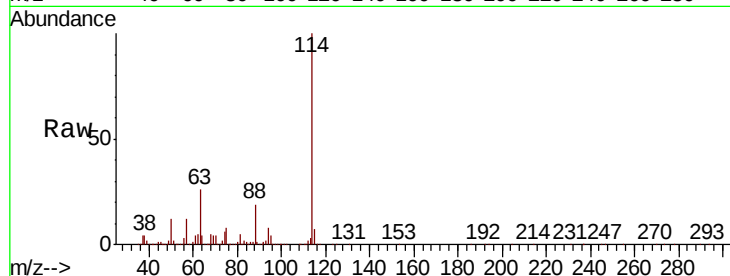
Tot Ion:114 Resp: 3275281

Ion Ratio Lower Upper

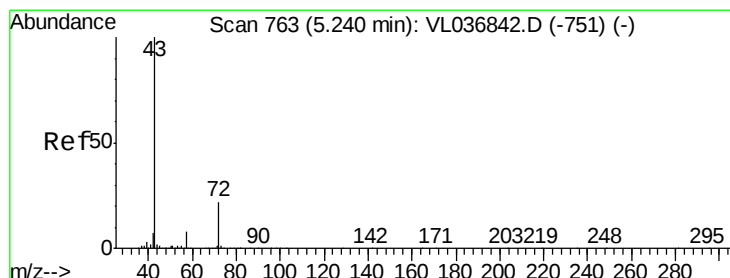
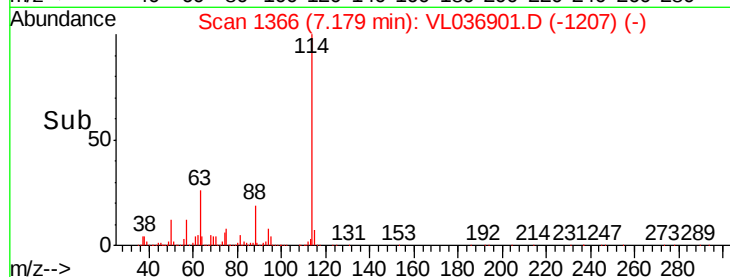
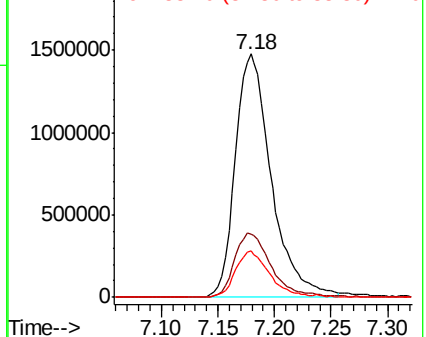
114 100

63 27.5 21.9 32.9

88 18.6 15.1 22.7



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: 0.146 ppbv

RT: 5.28 min Scan# 774

Delta R.T. 0.04 min

Lab File: VL036901.D

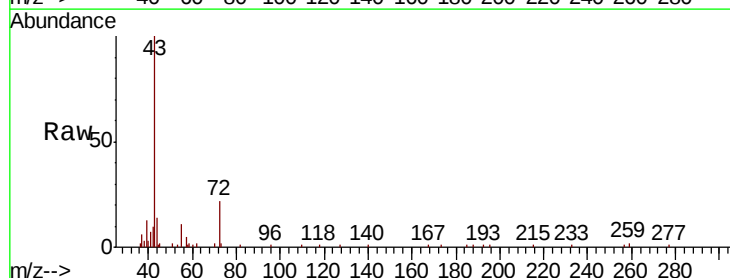
Acq: 6 May 2021 13:36

Tgt Ion: 43 Resp: 20990

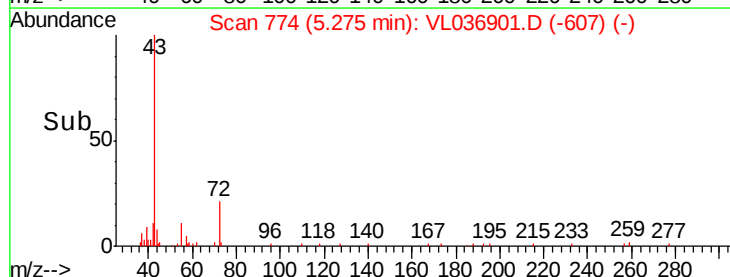
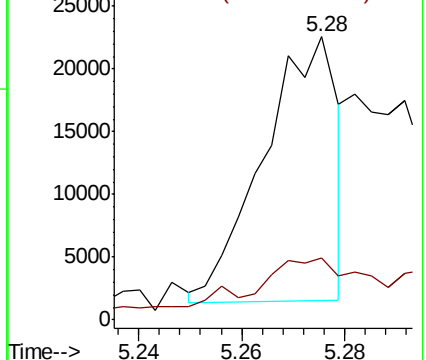
Ion Ratio Lower Upper

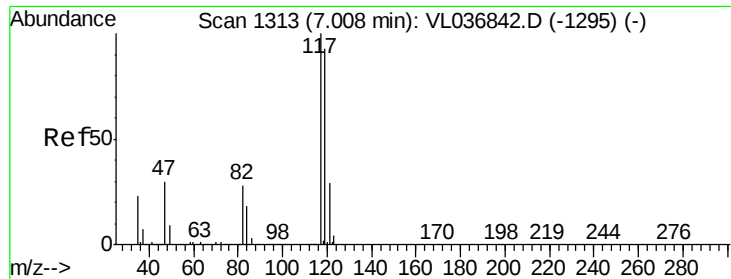
43 100

72 63.1 17.6 26.4#



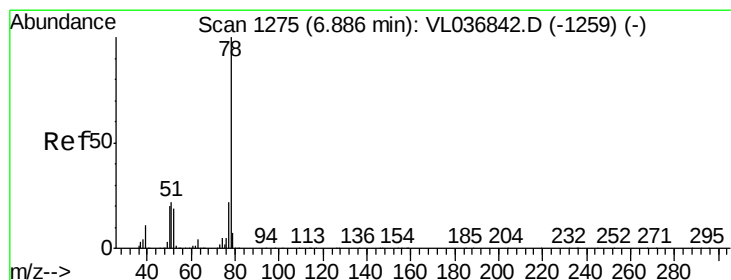
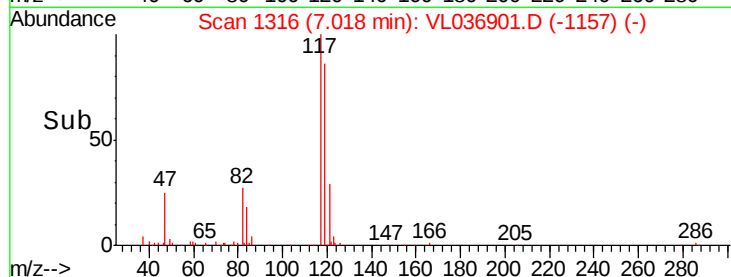
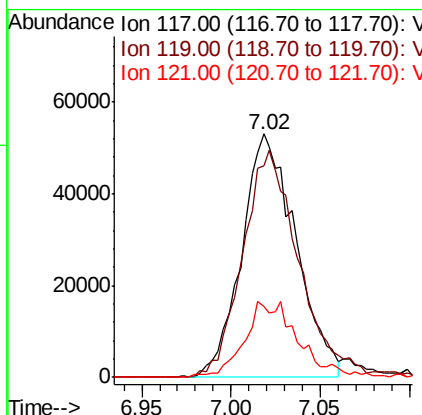
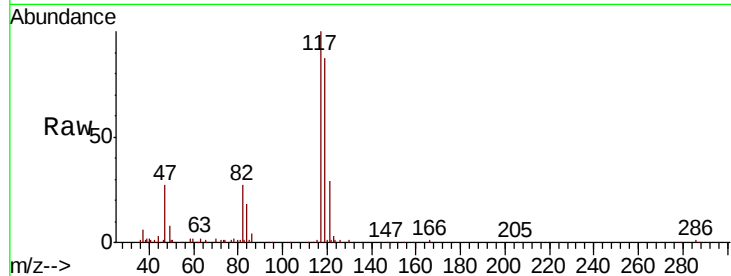
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





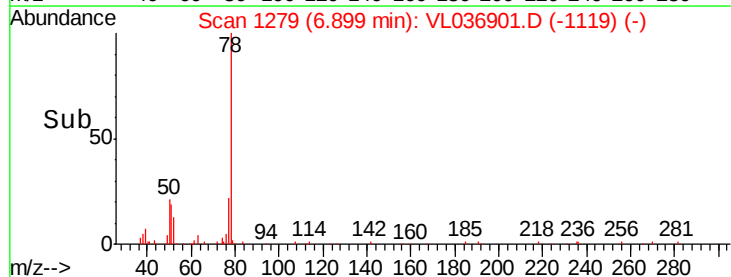
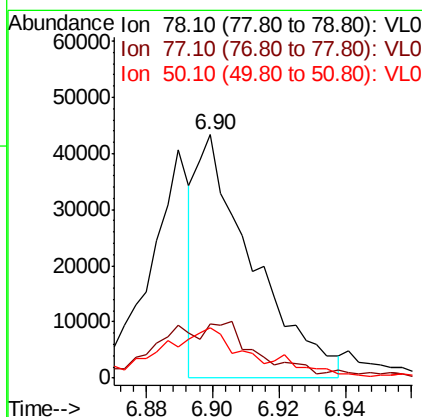
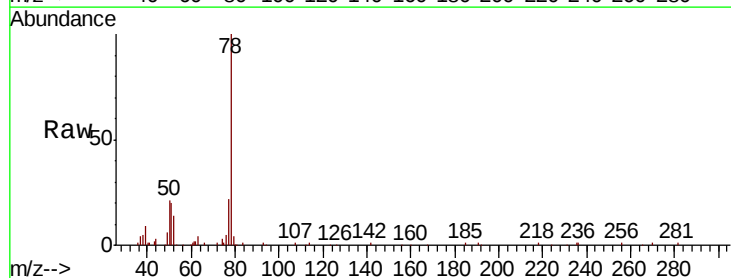
#35
Carbon Tetrachloride
Concen: 0.505 ppbv
RT: 7.02
Instrument: MSVOA_L
Delta R.T.:
Client Sample Id:
Lab File: LOD-MDL-AIR-01-OT2-2021
Acq: 6 May 2021 13:36

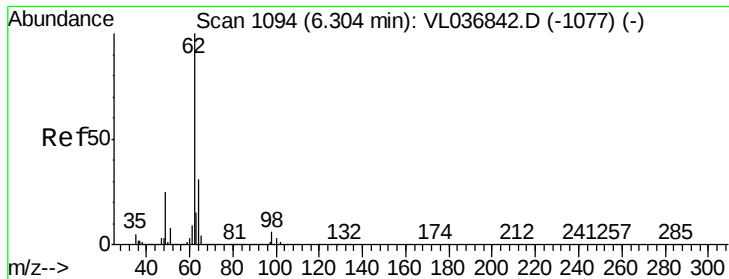
Tot Ion	Ratio	Lower	Upper
117	100		
119	86.3	74.6	111.8
121	29.1	23.3	34.9



#36
Benzene
Concen: 0.182 ppbv
RT: 6.90 min Scan# 1279
Delta R.T.: 0.01 min
Lab File: VL036901.D
Acq: 6 May 2021 13:36

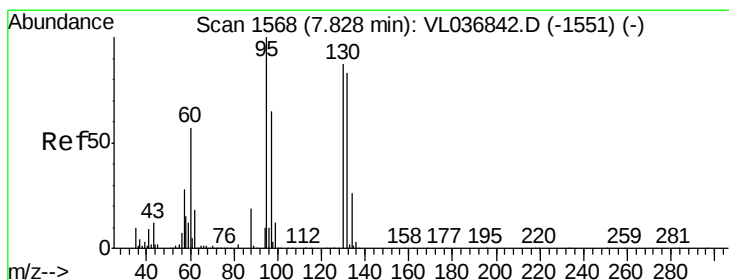
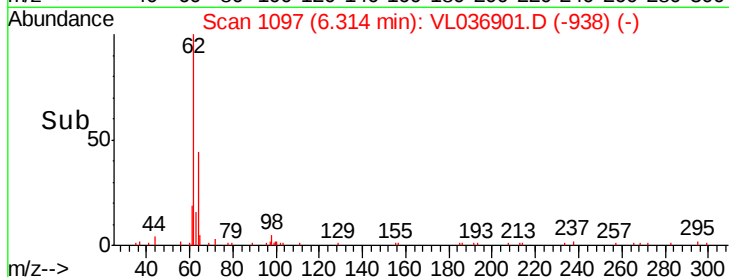
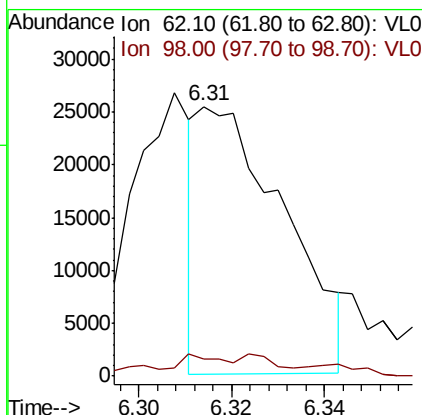
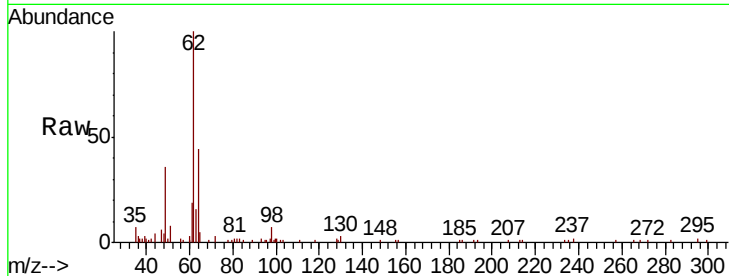
Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.2	17.6	26.4
50	20.7	16.3	24.5





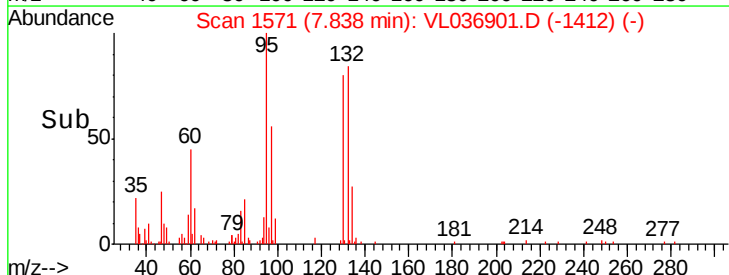
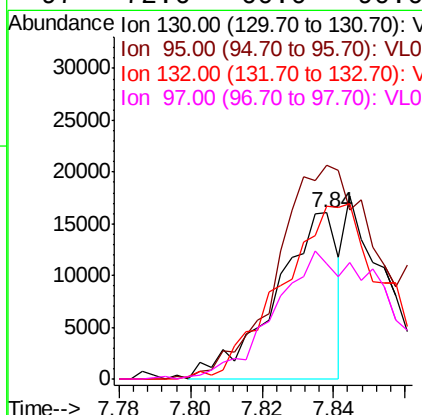
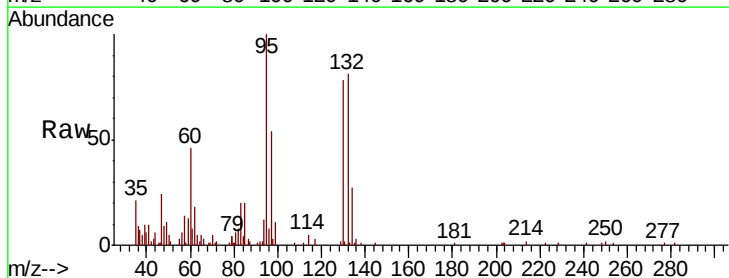
#37
 1,2-Dichloroethane
 Concen: 0.209 ppbv
 RT: 6.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 May 2021 13:30

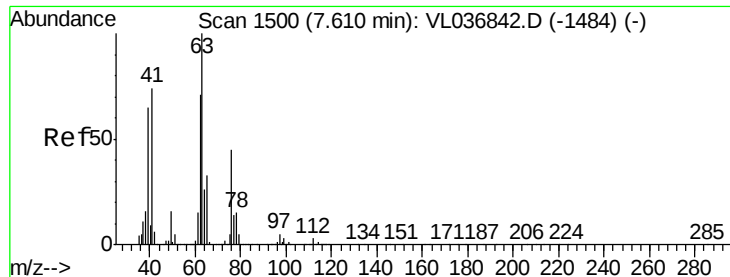
Tot Ion: 62 Resp: 32710
 Ion Ratio Lower Upper
 62 100
 98 12.9 4.8 7.2#



#38
 Trichloroethene
 Concen: 0.197 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. 0.01 min
 Lab File: VL036901.D
 Acq: 6 May 2021 13:36

Tgt Ion: 130 Resp: 19329
 Ion Ratio Lower Upper
 130 100
 95 135.7 92.3 138.5
 132 109.3 76.8 115.2
 97 72.6 60.0 90.0





#39

1,2-Dichloropropane

Concen: 0.105 ppbv

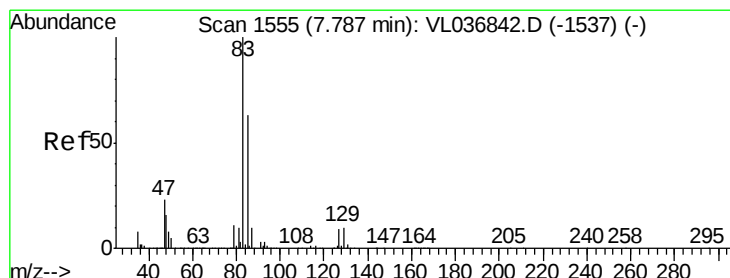
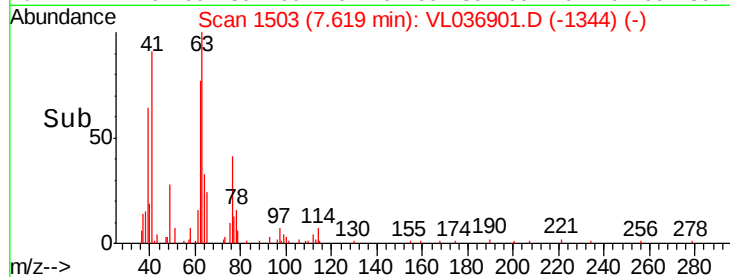
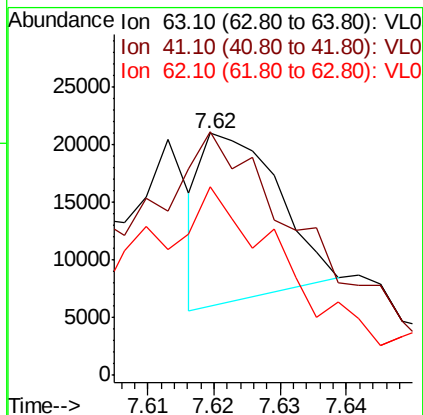
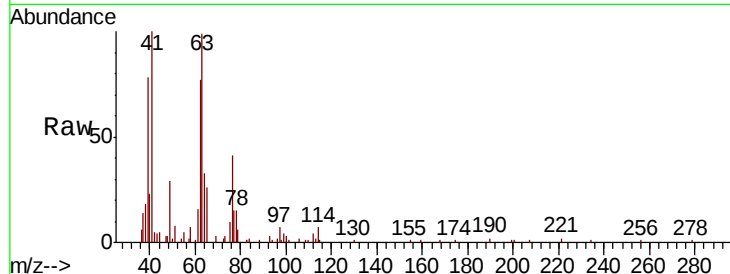
RT: 7.62 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 6 May 2021 13:30

Tot Ion:	63	Resp:	11639
Ion	Ratio	Lower	Upper
63	100		
41	104.9	59.1	88.7#
62	79.9	56.9	85.3



#42

Bromodichloromethane

Concen: 0.174 ppbv

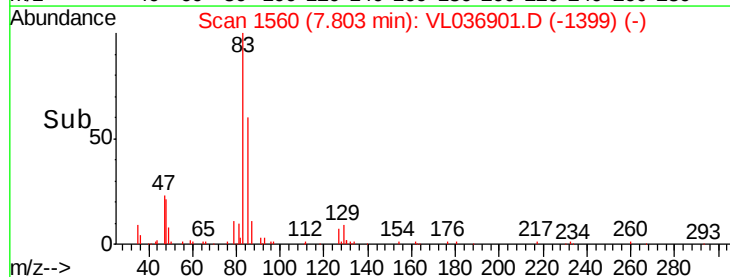
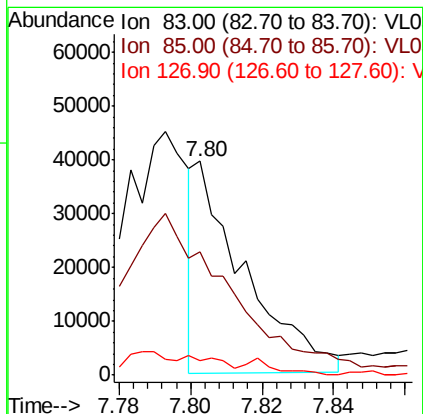
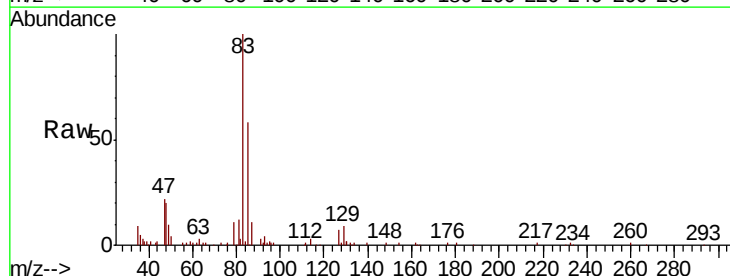
RT: 7.80 min Scan# 1560

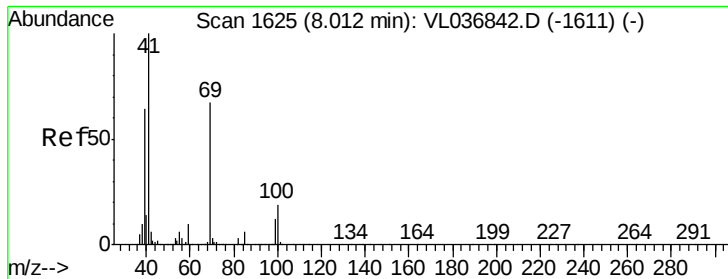
Delta R.T. 0.02 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

Tgt Ion:	83	Resp:	37710
Ion	Ratio	Lower	Upper
83	100		
85	55.4	50.4	75.6
127	7.5	6.9	10.3





#43

Methyl Methacrylate

Concen: 0.066 ppbv

RT: 8.02

Instrument: MSVOA_1

Delta R.T.

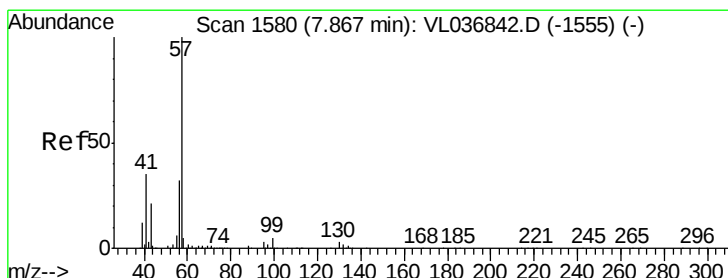
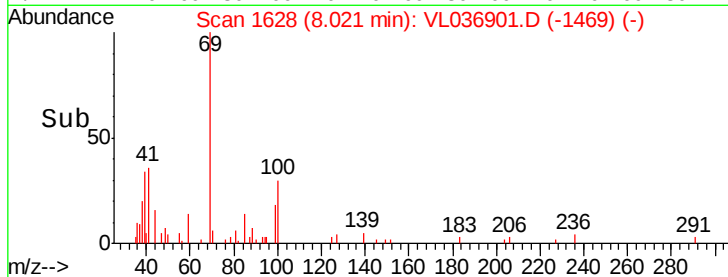
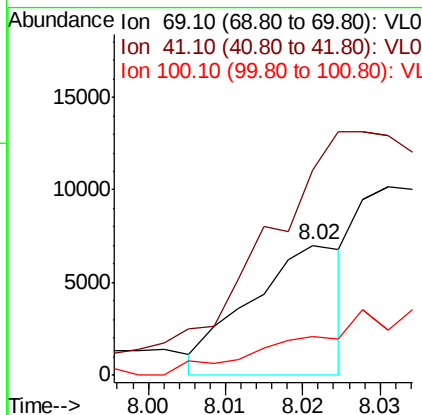
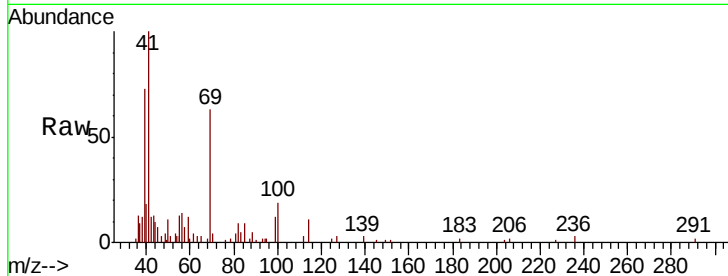
ClientSampleId:

Lab File: LOD-MDL-AIR-01-QT2-2021

Acq: 6 May 2021 13:36

Tot Ion: 69 Resp: 5918

Ion	Ratio	Lower	Upper
69	100		
41	0.0	124.2	186.4#
100	0.0	25.5	38.3#



#44

2,2,4-Trimethylpentane

Concen: 0.315 ppbv

RT: 7.88 min Scan# 1584

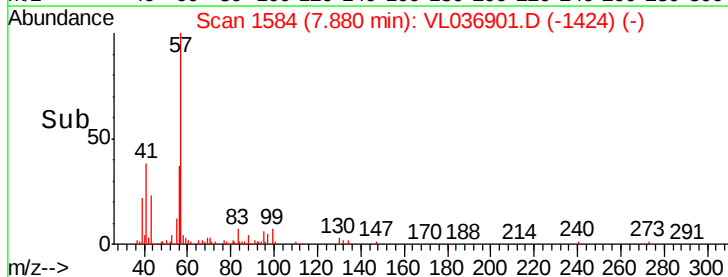
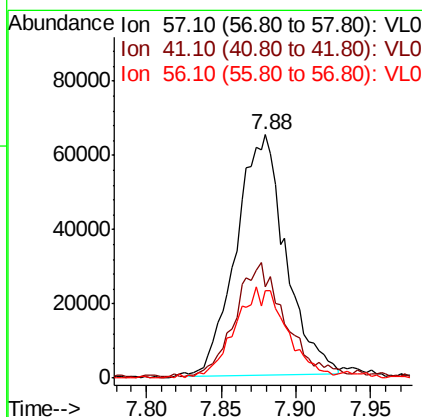
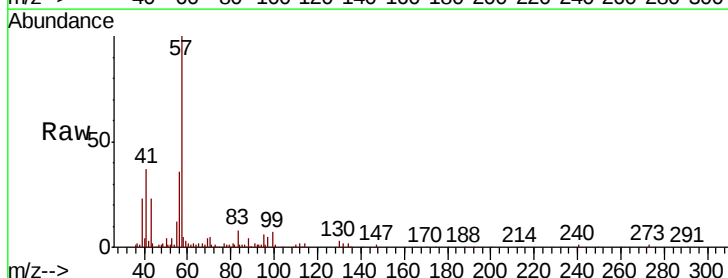
Delta R.T. 0.01 min

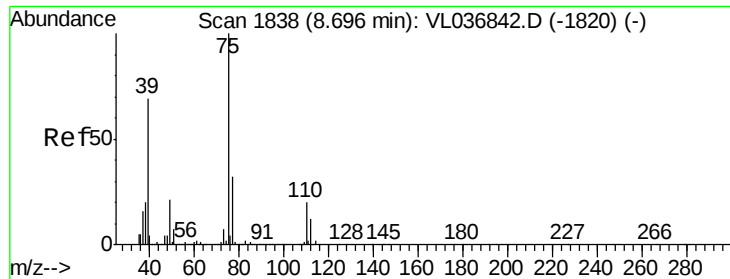
Lab File: VL036901.D

Acq: 6 May 2021 13:36

Tgt Ion: 57 Resp: 149105

Ion	Ratio	Lower	Upper
57	100		
41	49.6	28.2	42.4#
56	41.3	25.9	38.9#





#46

cis-1,3-Dichloropropene

Concen: 0.132 ppbv

RT: 8.71 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 6 May 2021 13:30 LOD-MDL-AIR-01-QT2-2021

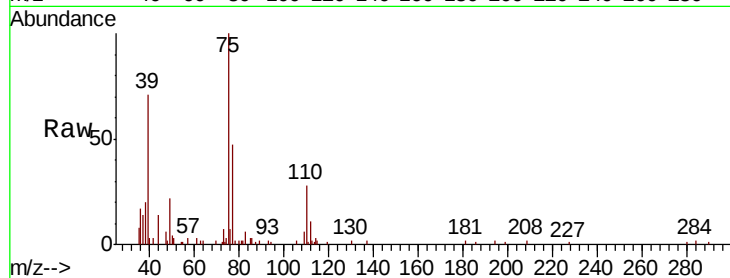
Tot Ion: 75 Resp: 16482

Ion Ratio Lower Upper

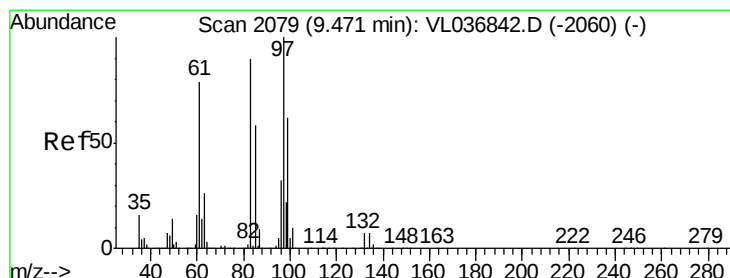
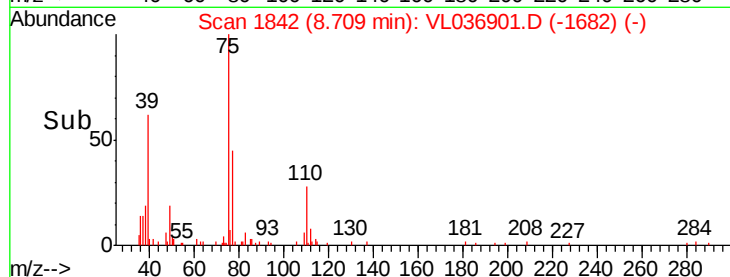
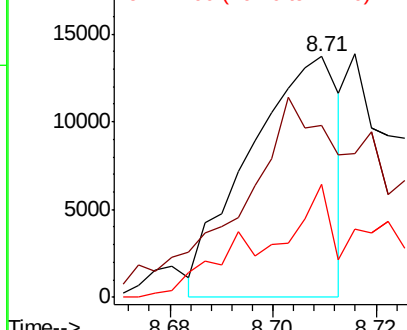
75 100

39 57.2 55.4 83.0

77 39.9 25.2 37.8#



Abundance Ion 75.00 (74.70 to 75.70): VL0
Ion 39.00 (38.70 to 39.70): VL0
Ion 77.00 (76.70 to 77.70): VL0



#47

1,1,2-Trichloroethane

Concen: 0.093 ppbv

RT: 9.48 min Scan# 2083

Delta R.T. 0.01 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

Tgt Ion: 97 Resp: 10589

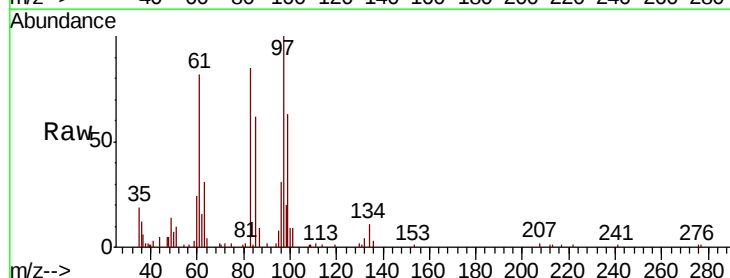
Ion Ratio Lower Upper

97 100

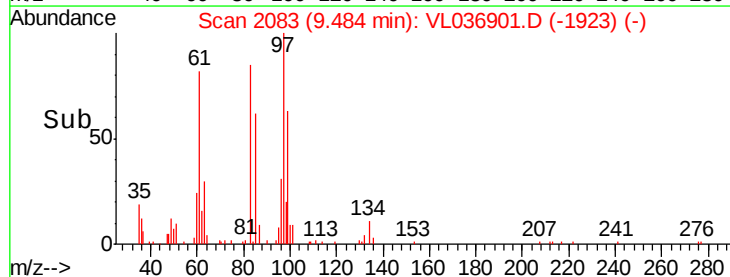
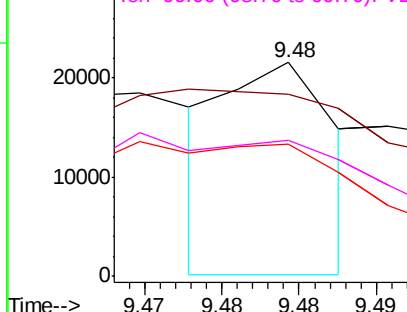
83 23.1 71.9 107.9#

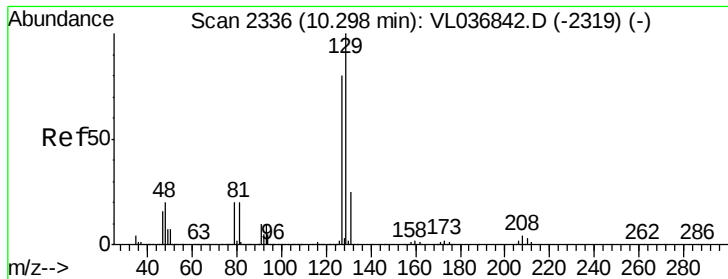
85 43.1 46.5 69.7#

99 28.4 49.8 74.8#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0





#48

Dibromochloromethane

Concen: 0.392 ppbv

RT: 10.31

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

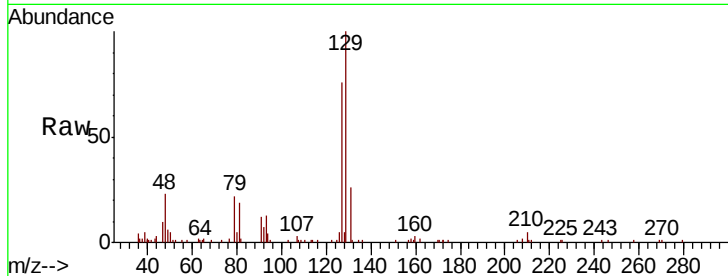
Acq: 6 May 2021 13:30

Tot Ion:129 Resp: 66501

Ion Ratio Lower Upper

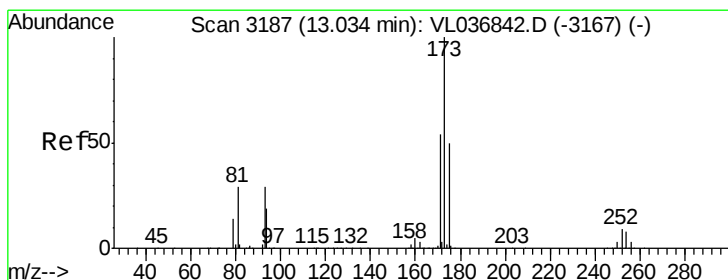
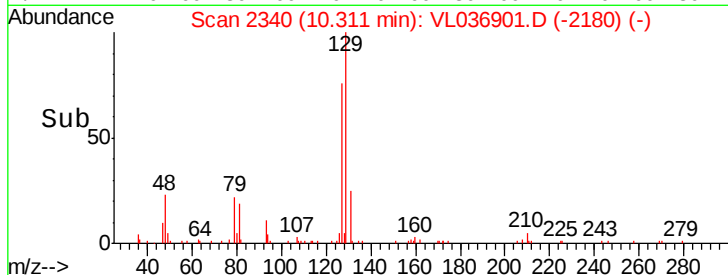
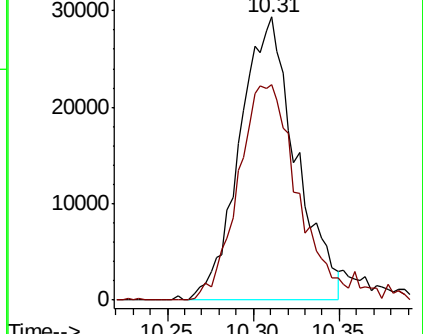
129 100

127 83.7 40.2 120.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.290 ppbv

RT: 13.05 min Scan# 3191

Delta R.T. 0.01 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

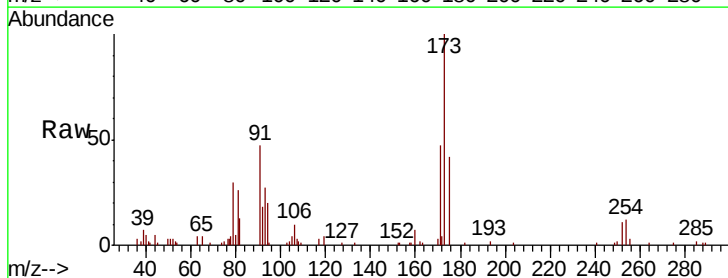
Tgt Ion:173 Resp: 39208

Ion Ratio Lower Upper

173 100

175 71.6 39.6 59.4#

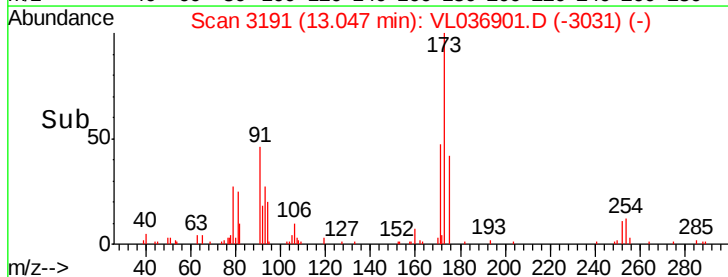
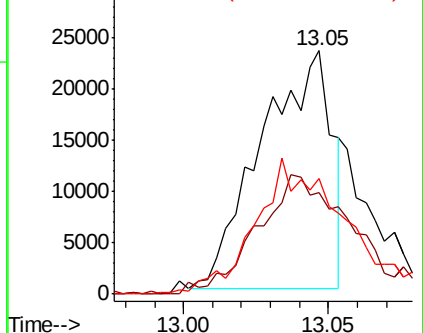
171 80.0 42.2 63.4#

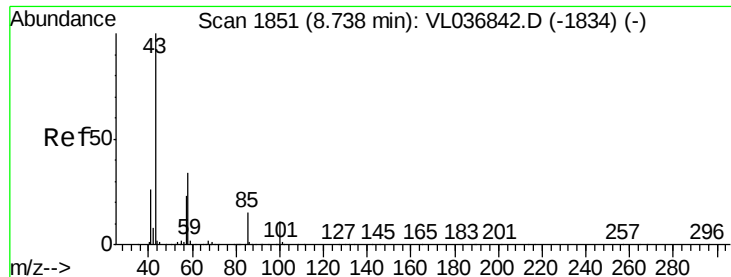


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

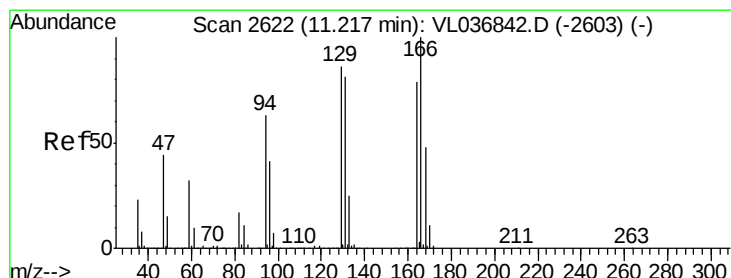
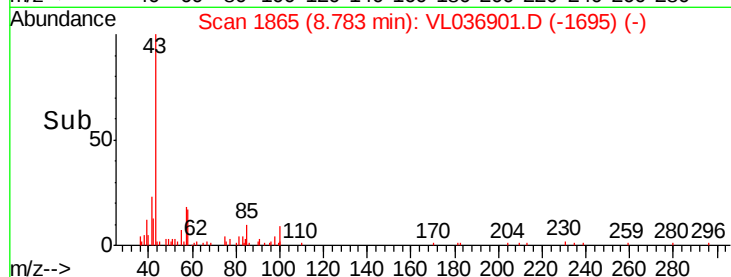
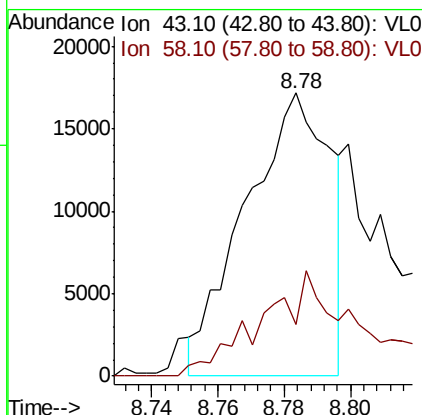
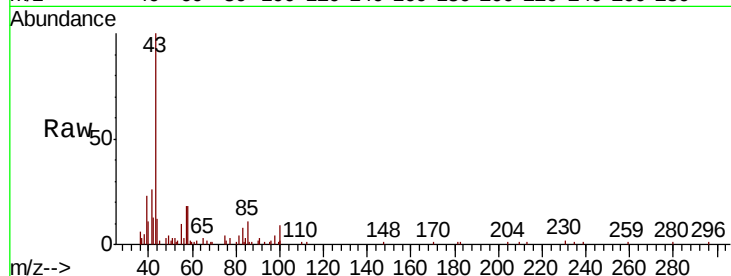
Ion 170.90 (170.60 to 171.60): V





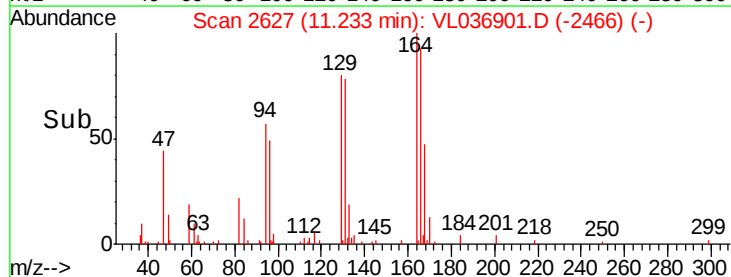
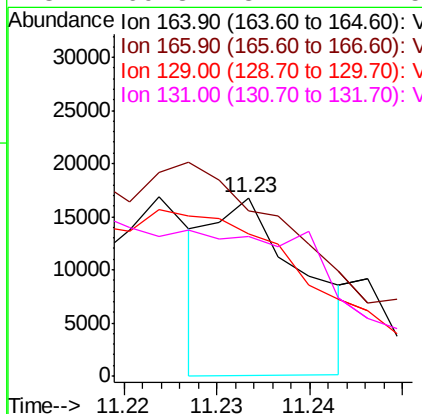
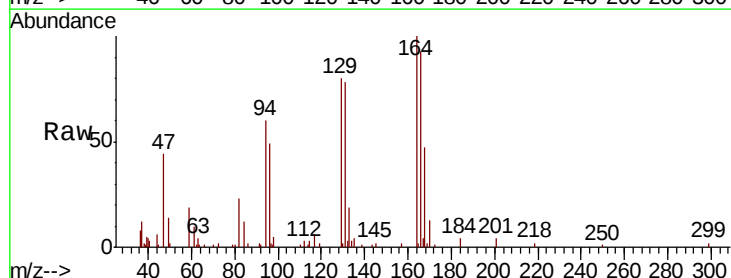
#50
 4-Methyl-2-Pentanone
 Concen: 0.156 ppbv
 RT: 8.78
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 6 May 2021 13:30

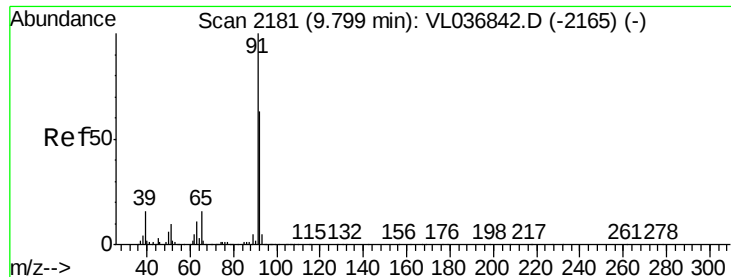
Tot Ion: 43 Resp: 30574
 Ion Ratio Lower Upper
 43 100
 58 46.9 27.8 41.8#



#52
 Tetrachloroethene
 Concen: 0.123 ppbv
 RT: 11.23 min Scan# 2627
 Delta R.T. 0.02 min
 Lab File: VL036901.D
 Acq: 6 May 2021 13:36

Tgt Ion: 164 Resp: 11603
 Ion Ratio Lower Upper
 164 100
 166 69.0 100.9 151.3#
 129 76.1 87.0 130.4#
 131 69.3 81.7 122.5#





#53

Toluene

Concen: 0.107 ppbv

RT: 9.82 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

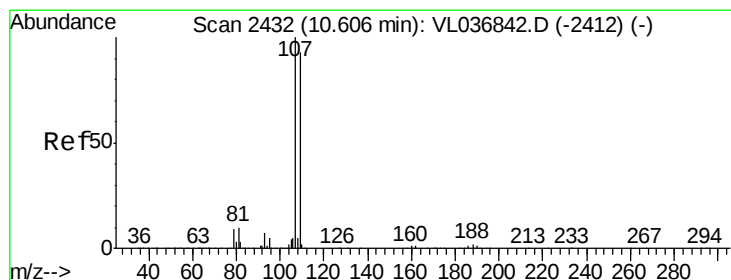
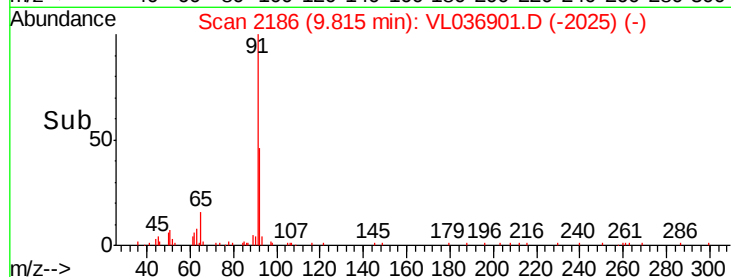
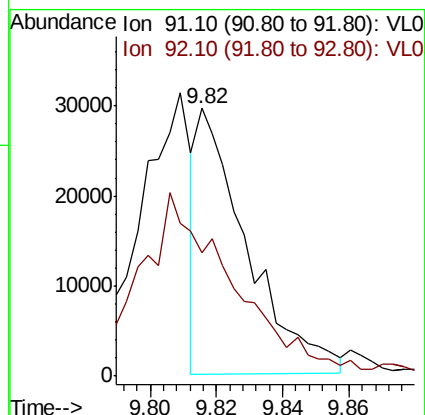
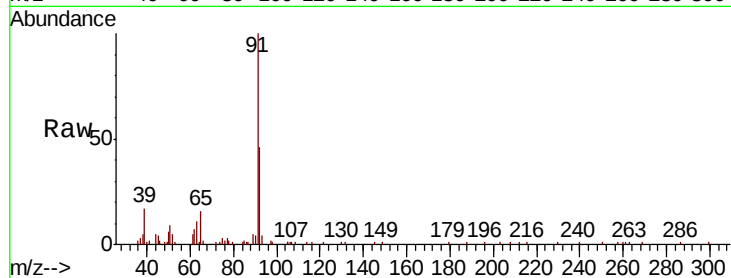
Acq: 6 May 2021 13:30 LOD-MDL-AIR-01-OT2-2021

Tot Ion: 91 Resp: 30819

Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.4#



#54

1,2-Dibromoethane

Concen: 0.251 ppbv

RT: 10.61 min Scan# 2434

Delta R.T. 0.01 min

Lab File: VL036901.D

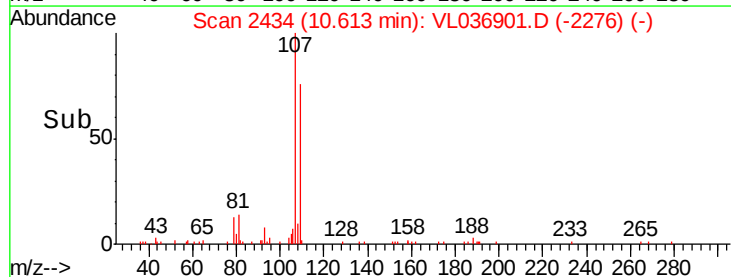
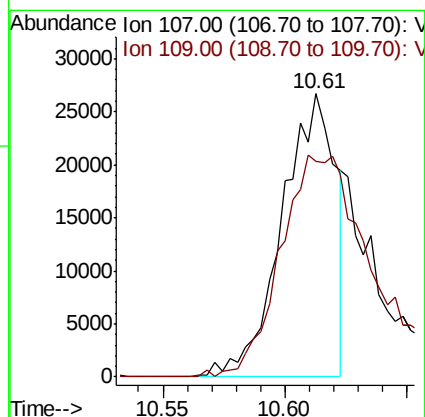
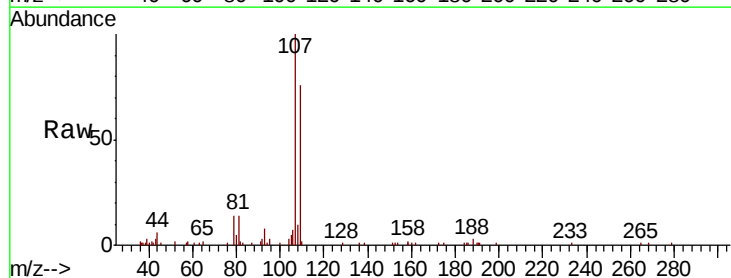
Acq: 6 May 2021 13:36

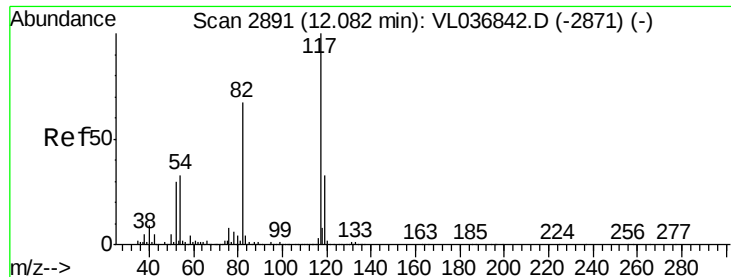
Tgt Ion: 107 Resp: 40603

Ion Ratio Lower Upper

107 100

109 76.0 74.7 112.1

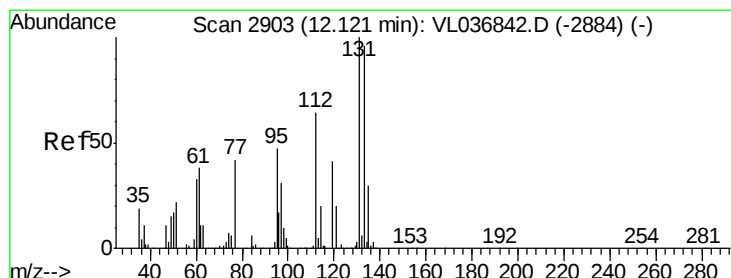
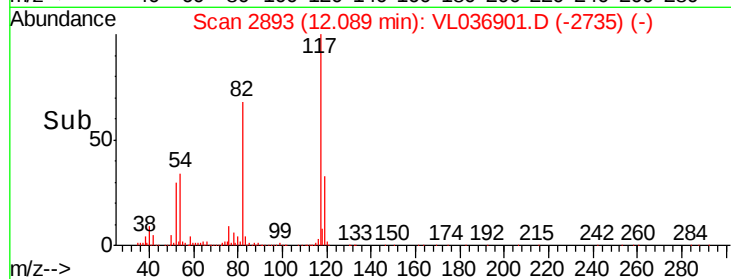
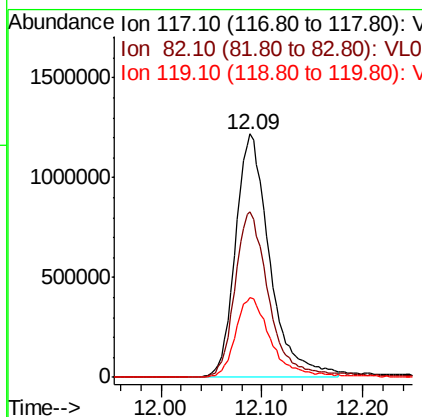
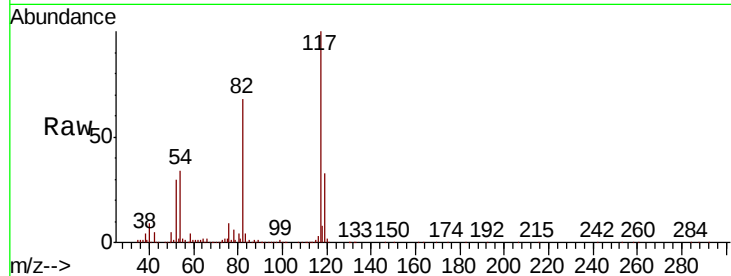




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 6 May 2021 13:30

Tot Ion:117 Resp: 2880074

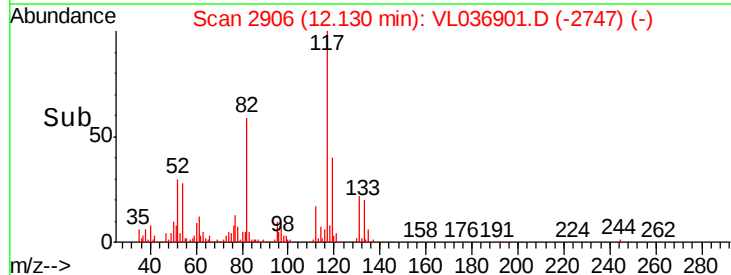
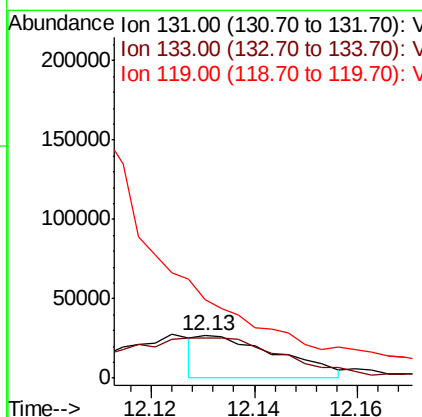
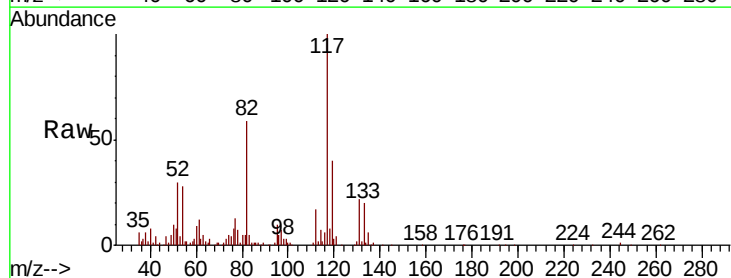
Ion	Ratio	Lower	Upper
117	100		
82	69.0	53.5	80.3
119	34.4	25.6	38.4

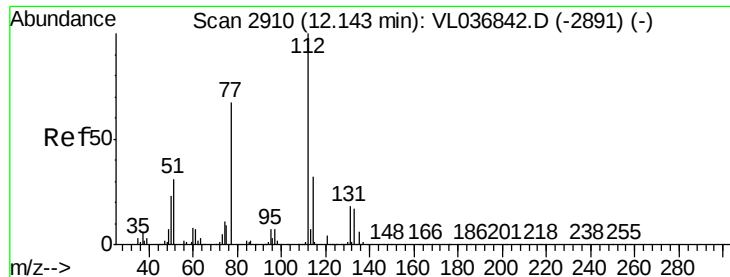


#56
1,1,1,2-Tetrachloroethane
Concen: 0.238 ppbv
RT: 12.13 min Scan# 2906
Delta R.T.: 0.01 min
Lab File: VL036901.D
Acq: 6 May 2021 13:36

Tgt Ion:131 Resp: 28677

Ion	Ratio	Lower	Upper
131	100		
133	223.4	76.3	114.5#
119	0.0	114.9	172.3#





#57

Chlorobenzene

Concen: 0.491 ppbv

RT: 12.14

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 13:30

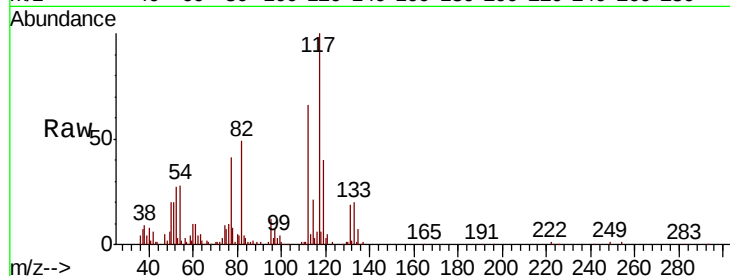
Tot Ion: 112 Resp: 110144

Ion Ratio Lower Upper

112 100

77 55.4 54.2 81.4

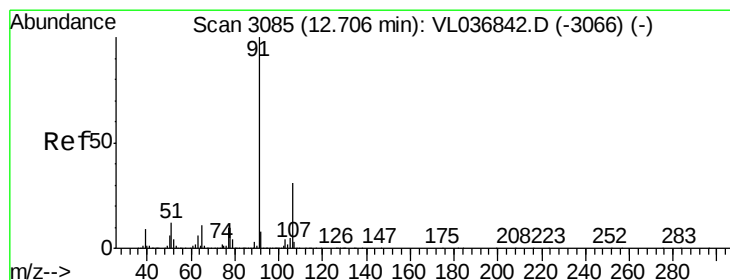
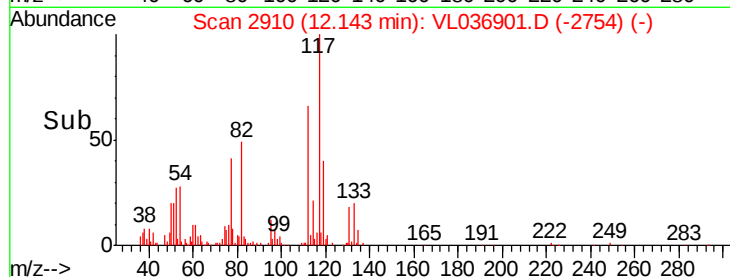
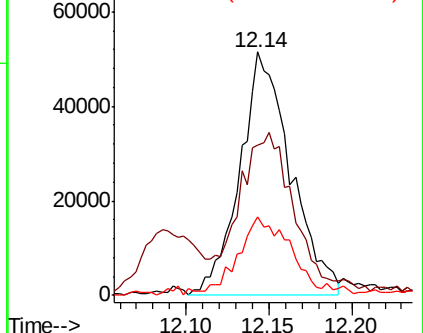
114 29.4 28.5 34.9



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.253 ppbv

RT: 12.72 min Scan# 3088

Delta R.T. 0.01 min

Lab File: VL036901.D

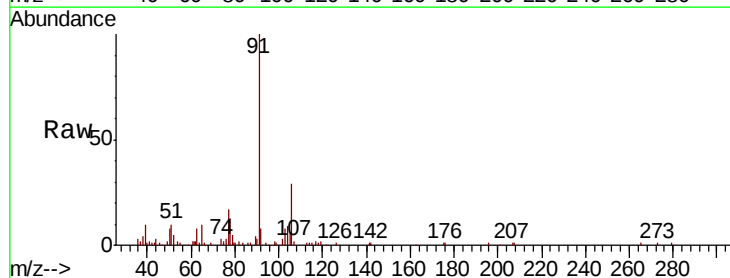
Acq: 6 May 2021 13:36

Tgt Ion: 91 Resp: 92550

Ion Ratio Lower Upper

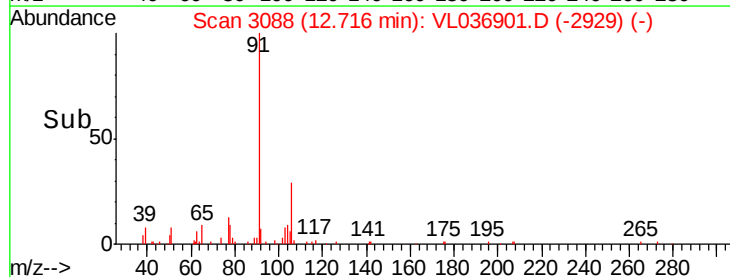
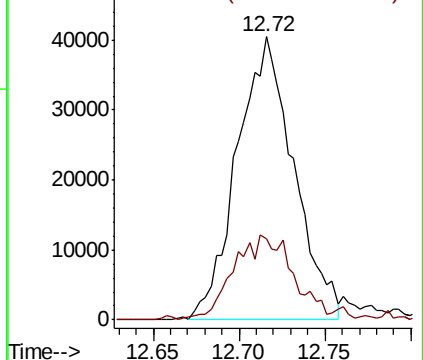
91 100

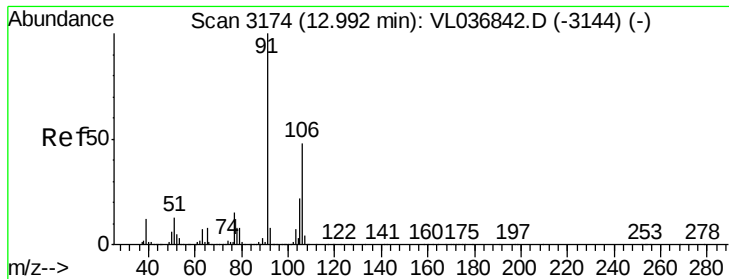
106 27.8 25.1 37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

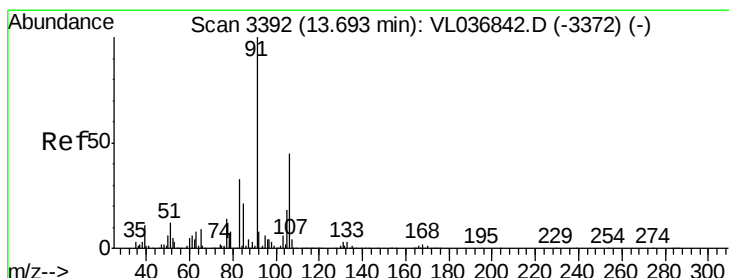
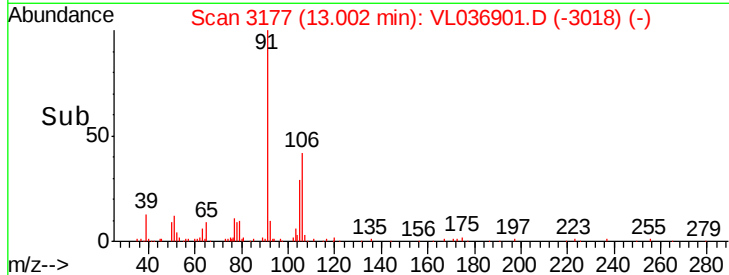
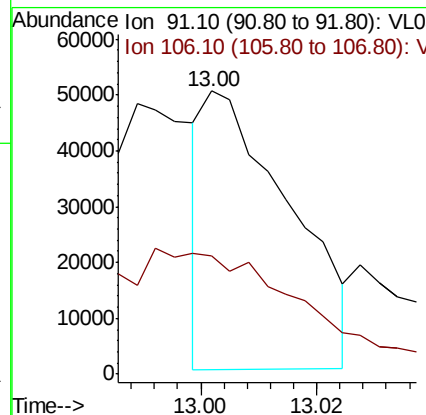
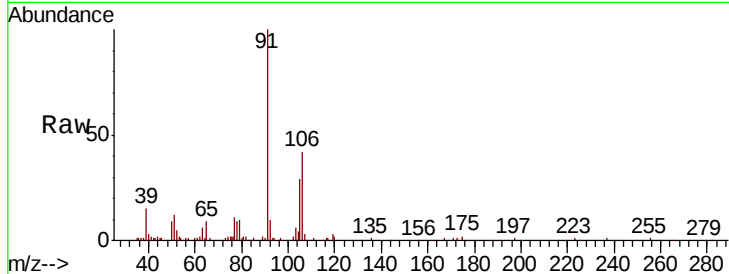
Ion 106.10 (105.80 to 106.80): V





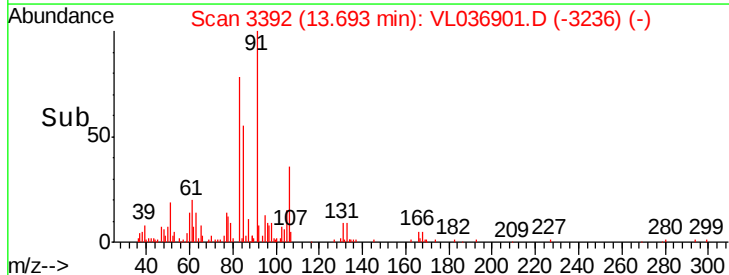
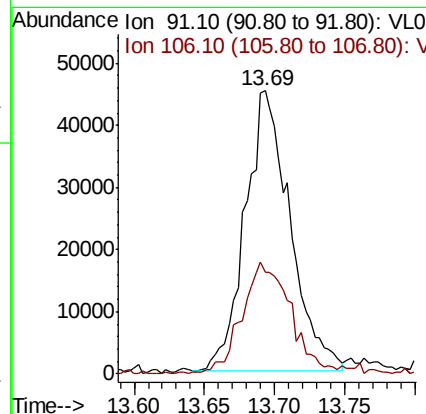
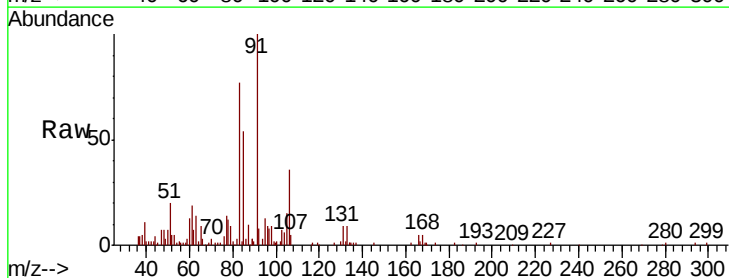
#59
m/p-Xylene
Concen: 0.157 ppbv
RT: 13.00 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 6 May 2021 13:30

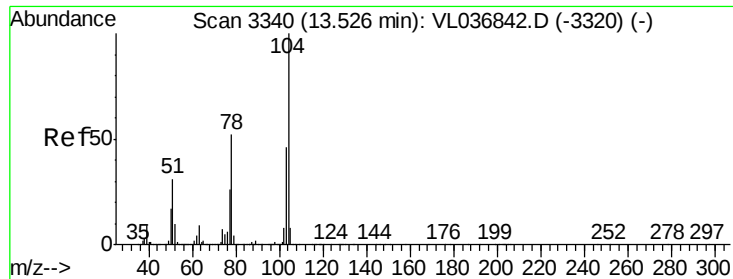
Tot Ion: 91 Resp: 51196
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#



#60
o-Xylene
Concen: 0.320 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.00 min
Lab File: VL036901.D
Acq: 6 May 2021 13:36

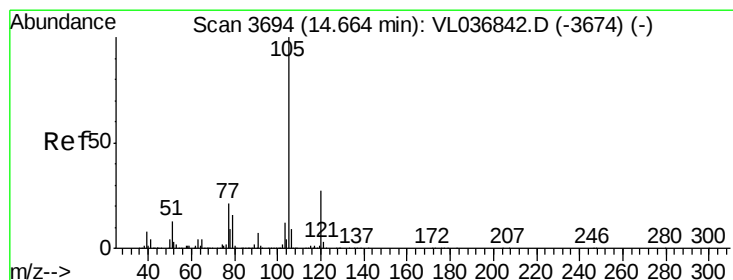
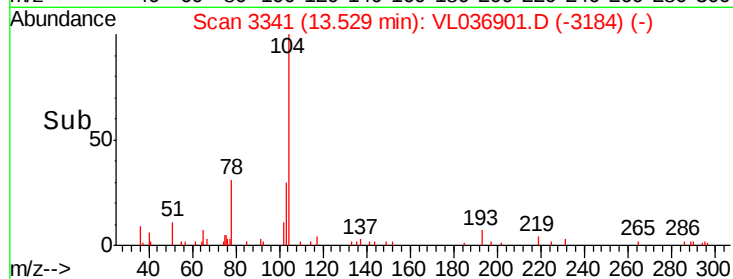
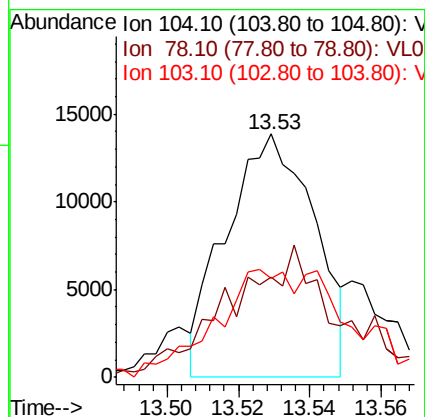
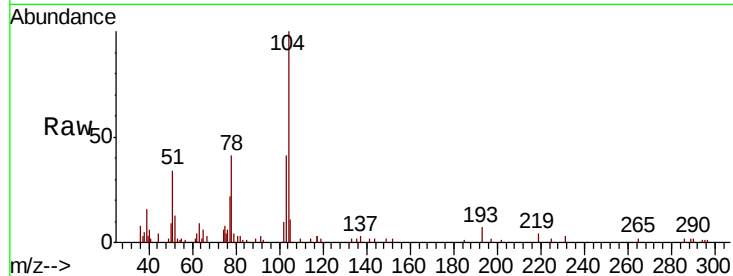
Tgt Ion: 91 Resp: 100898
Ion Ratio Lower Upper
91 100
106 43.5 22.6 67.7





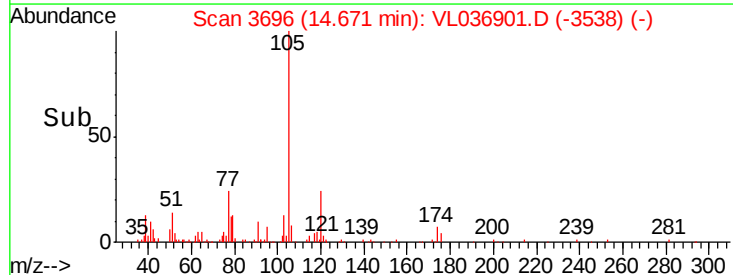
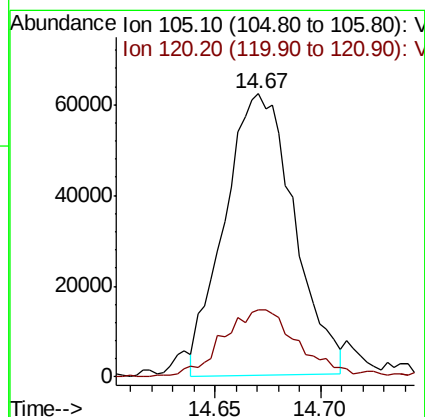
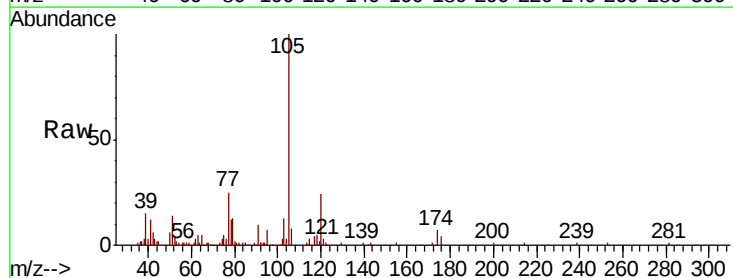
#61
Stvrene
Concen: 0.160 ppbv
RT: 13.53
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 6 May 2021 13:30

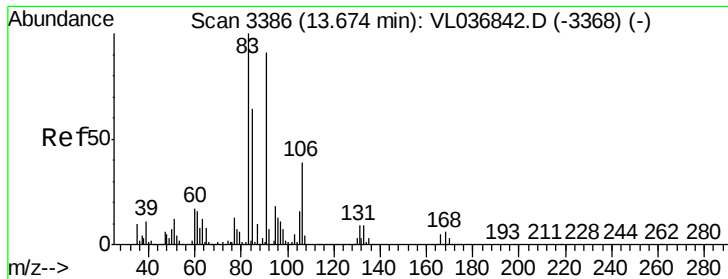
Tot Ion:104 Resp: 23739
Ion Ratio Lower Upper
104 100
78 68.7 42.6 64.0#
103 69.7 38.1 57.1#



#62
Isopropylbenzene
Concen: 0.331 ppbv
RT: 14.67 min Scan# 3696
Delta R.T. 0.01 min
Lab File: VL036901.D
Acq: 6 May 2021 13:36

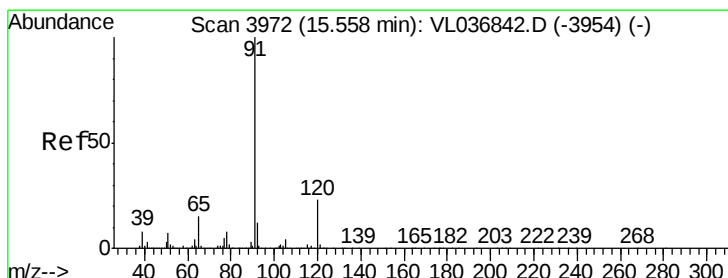
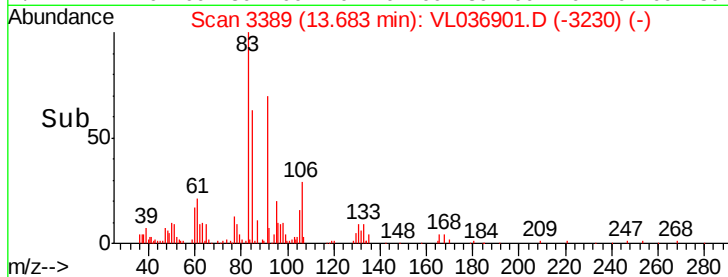
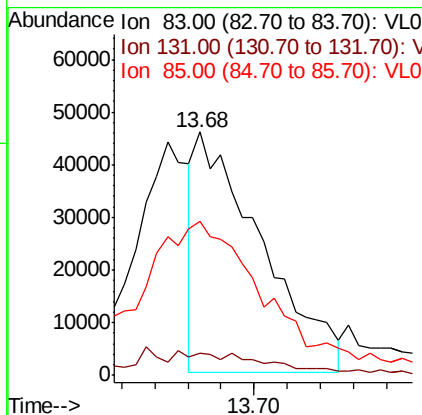
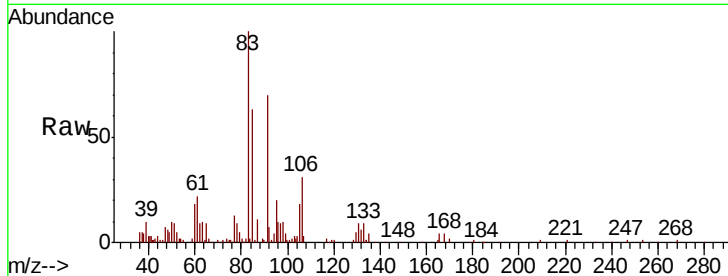
Tgt Ion:105 Resp: 142158
Ion Ratio Lower Upper
105 100
120 26.9 21.1 31.7





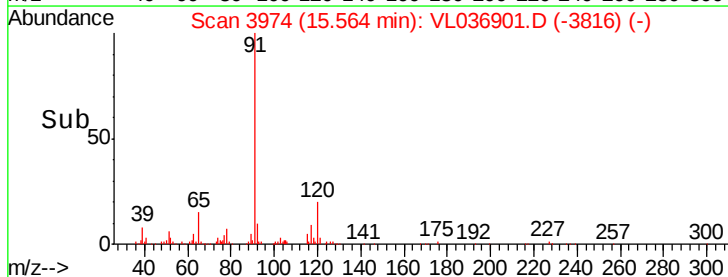
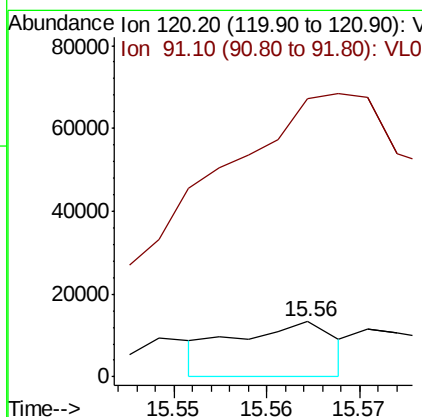
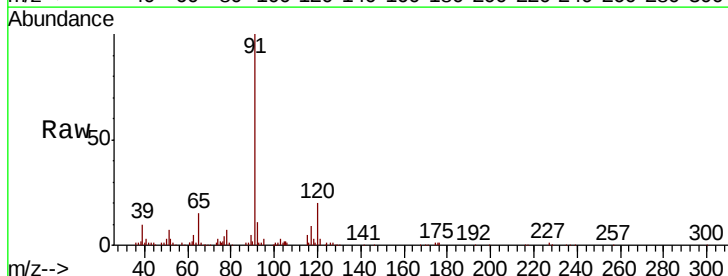
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.249 ppbv
 RT: 13.68
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 May 2021 13:30

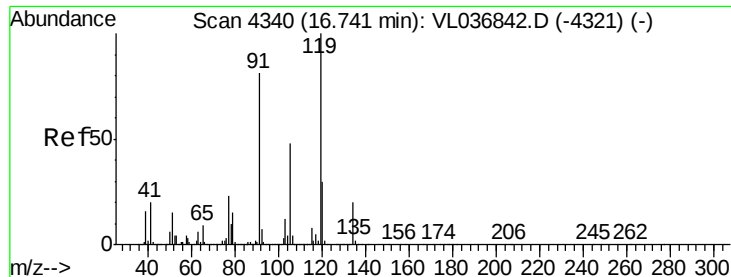
Tot Ion: 83 Resp: 63055
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.8 14.3#
 85 139.2 32.8 98.4#



#64
 n-propylbenzene
 Concen: 0.093 ppbv
 RT: 15.56 min Scan# 3974
 Delta R.T. 0.01 min
 Lab File: VL036901.D
 Acq: 6 May 2021 13:36

Tgt Ion: 120 Resp: 10008
 Ion Ratio Lower Upper
 120 100
 91 0.0 378.6 567.8#





#65

tert-Butylbenzene

Concen: 0.141 ppbv

RT: 16.75

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 13:30

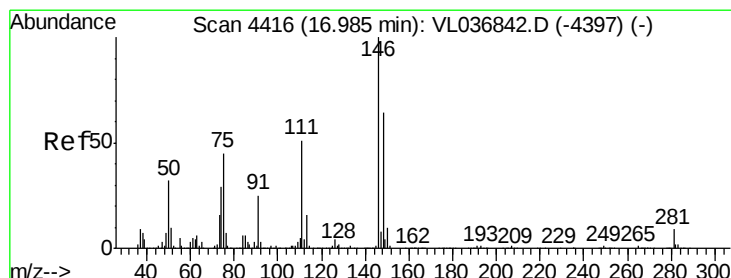
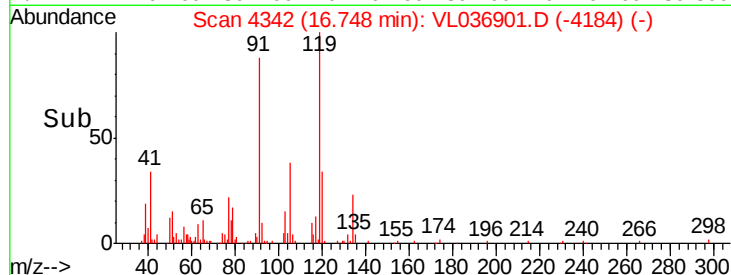
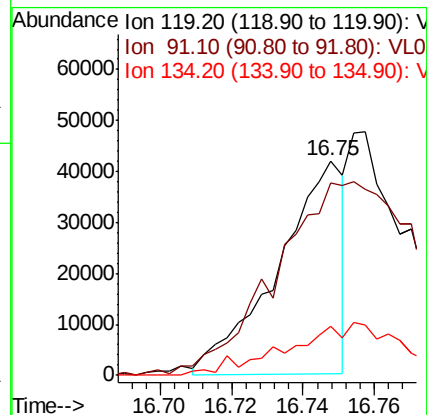
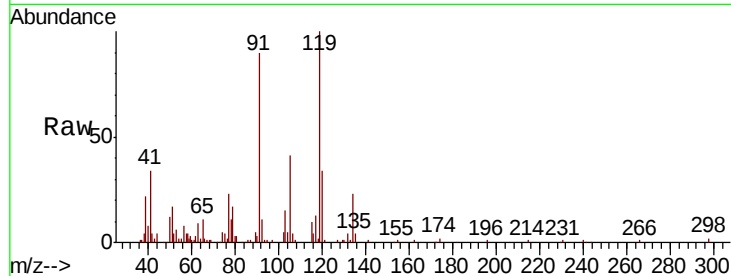
Tot Ion: 119 Resp: 53428

Ion Ratio Lower Upper

119 100

91 0.0 67.0 100.6#

134 0.0 15.8 23.6#



#66

Benzyl Chloride

Concen: 0.082 ppbv

RT: 17.00 min Scan# 4421

Delta R.T. 0.02 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

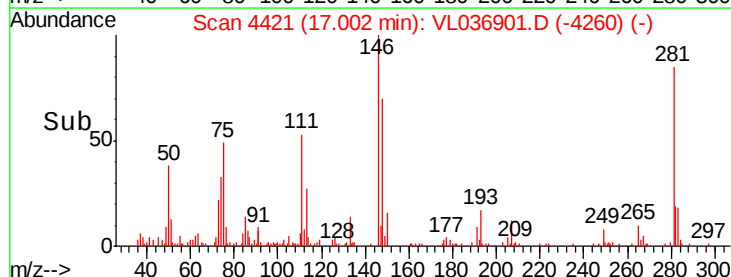
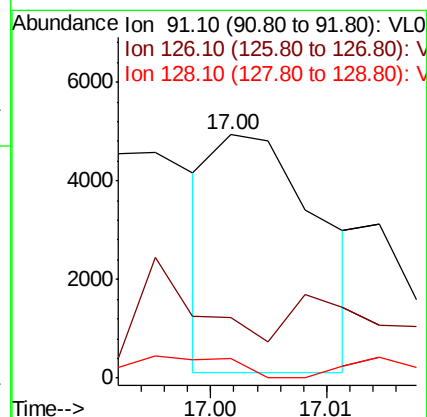
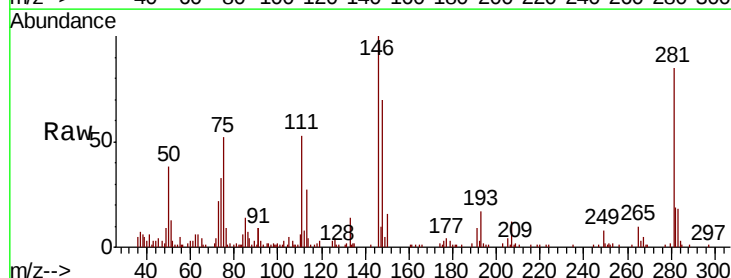
Tgt Ion: 91 Resp: 3029

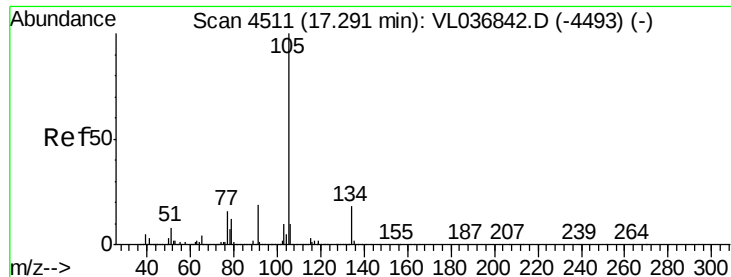
Ion Ratio Lower Upper

91 100

126 112.7 14.1 21.1#

128 0.0 4.8 7.2#





#67

sec-Butylbenzene

Concen: 0.323 ppbv

RT: 17.29

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

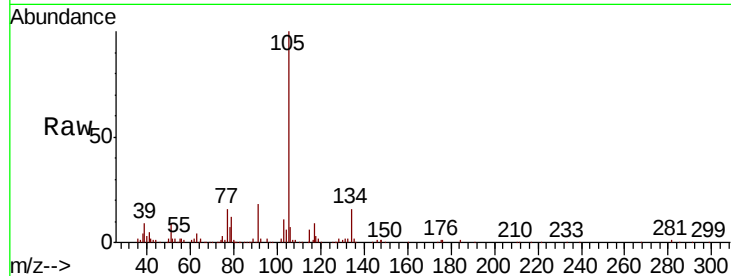
Acq: 6 May 2021 13:36

Tot Ion: 105 Resp: 170260

Ion Ratio Lower Upper

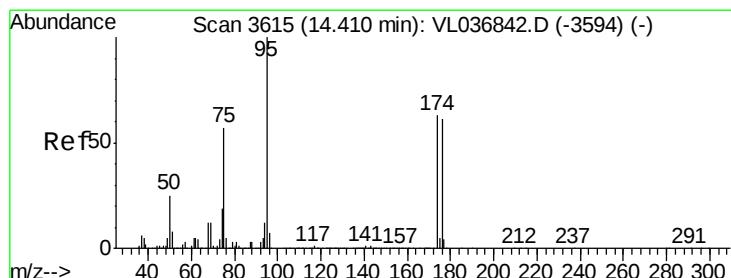
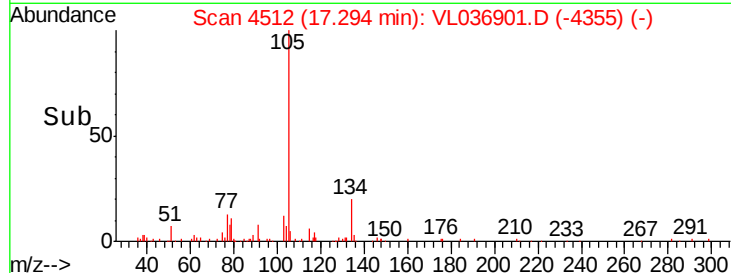
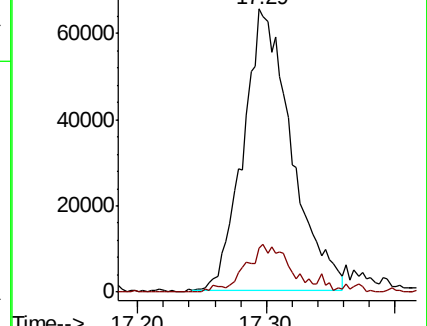
105 100

134 17.5 14.8 22.2



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: 10.143 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.01 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

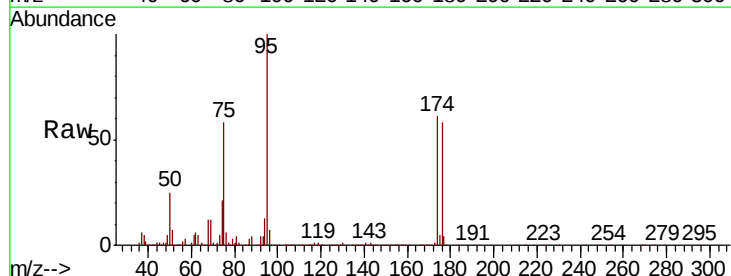
Tgt Ion: 95 Resp: 2345049

Ion Ratio Lower Upper

95 100

174 66.7 52.2 78.2

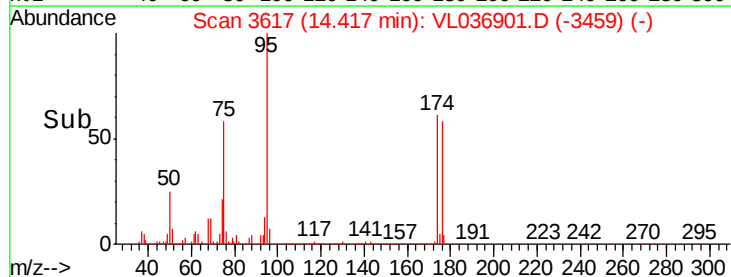
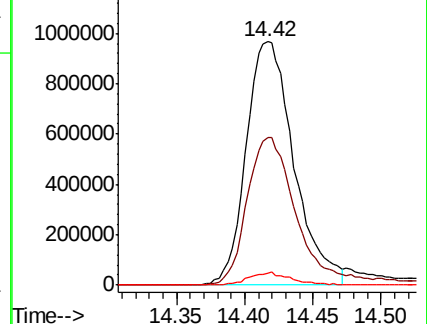
175 4.9 4.0 6.0

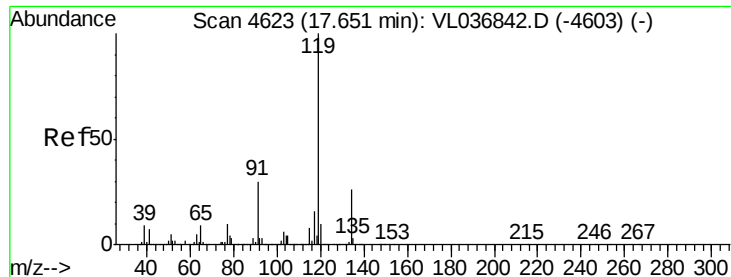


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

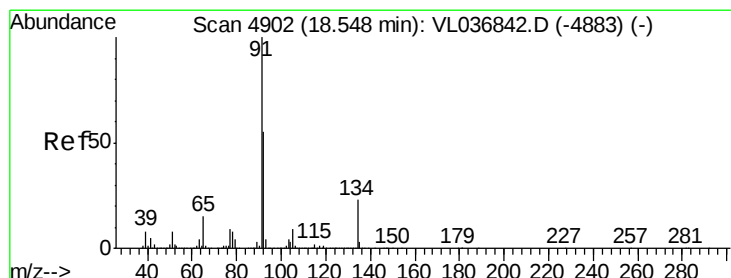
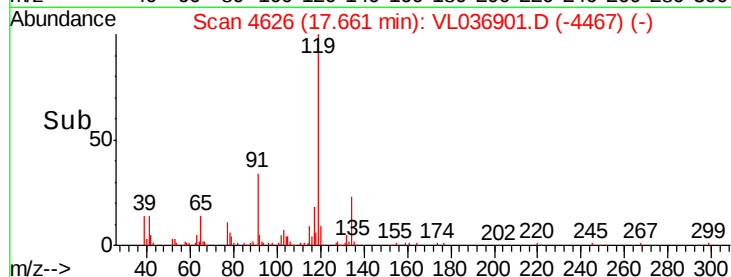
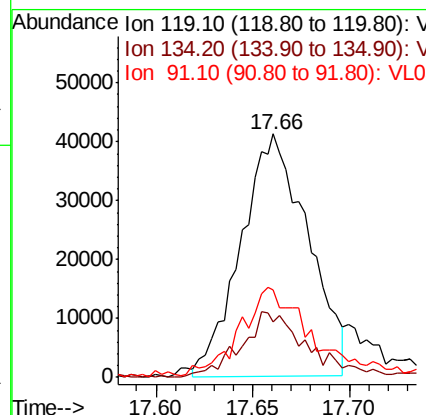
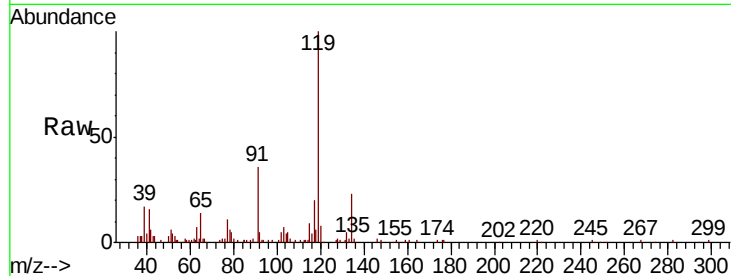
Ion 175.00 (174.70 to 175.70): V





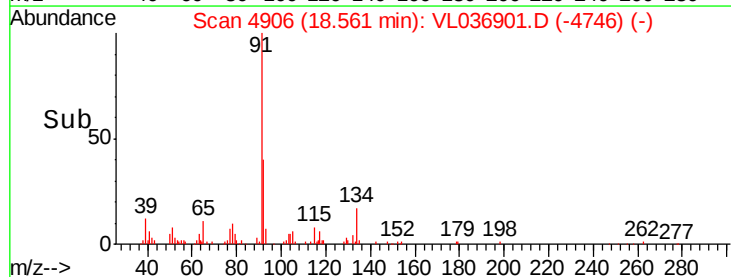
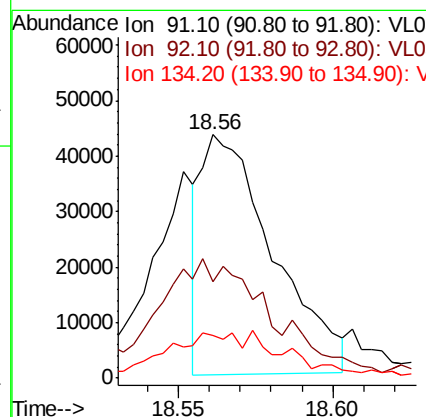
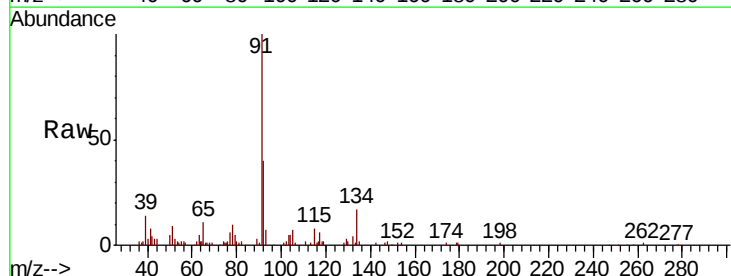
#69
 p-Isopropyltoluene
 Concen: 0.235 ppbv
 RT: 17.66 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 May 2021 13:36

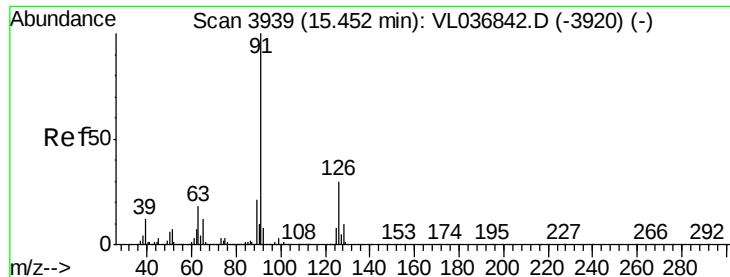
Tot Ion:	119	Resp:	99319
Ion	Ratio	Lower	Upper
119	100		
134	28.2	20.6	31.0
91	42.7	24.2	36.4#



#70
 n-Butylbenzene
 Concen: 0.164 ppbv
 RT: 18.56 min Scan# 4906
 Delta R.T. 0.01 min
 Lab File: VL036901.D
 Acq: 6 May 2021 13:36

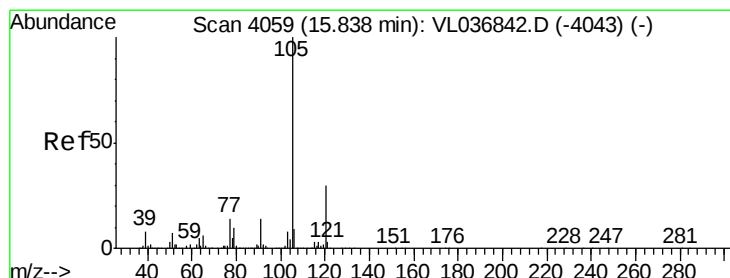
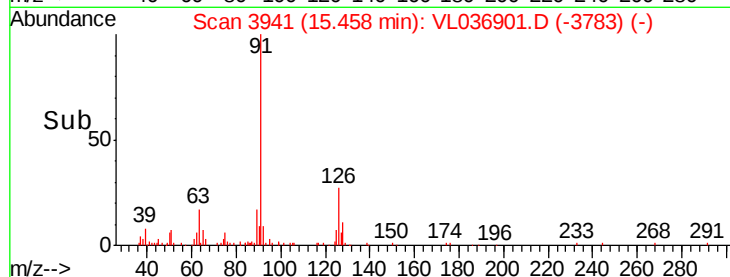
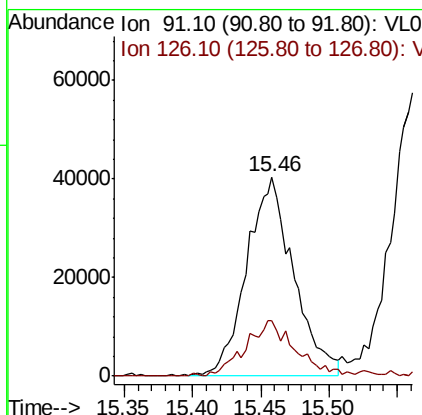
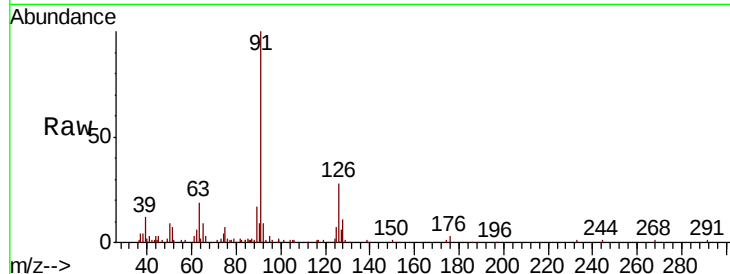
Tgt Ion:	91	Resp:	69838
Ion	Ratio	Lower	Upper
91	100		
92	83.5	43.5	65.3#
134	34.7	18.2	27.4#





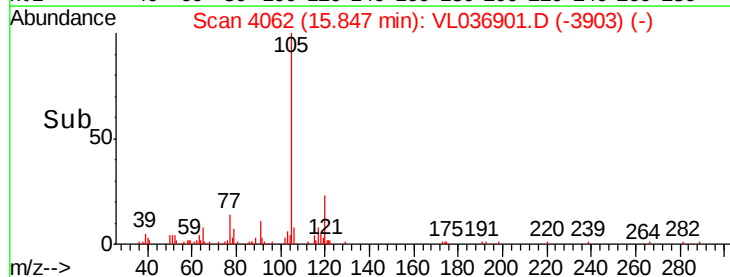
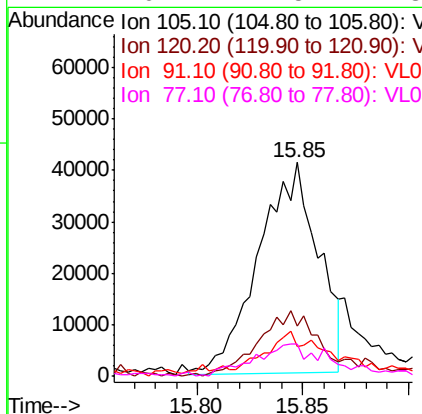
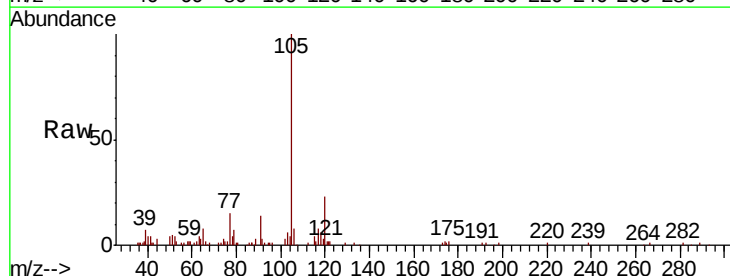
#71
 2-Chlorotoluene
 Concen: 0.301 ppbv
 RT: 15.46
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 May 2021 15:30

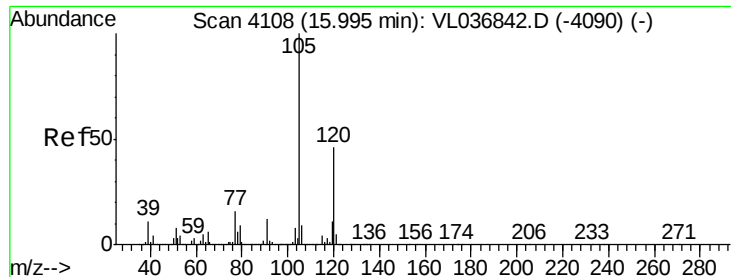
Tot Ion: 91 Resp: 95594
 Ion Ratio Lower Upper
 91 100
 126 30.0 12.3 49.3



#72
 4-Ethyltoluene
 Concen: 0.240 ppbv
 RT: 15.85 min Scan# 4062
 Delta R.T. 0.01 min
 Lab File: VL036901.D
 Acq: 6 May 2021 13:36

Tgt Ion:105 Resp: 81175
 Ion Ratio Lower Upper
 105 100
 120 35.6 23.8 35.6
 91 21.6 10.7 16.1#
 77 20.4 11.5 17.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.148 ppbv

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

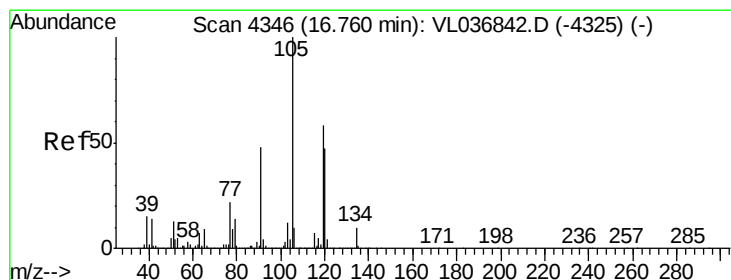
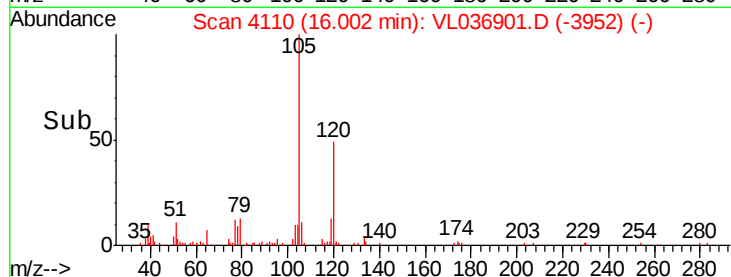
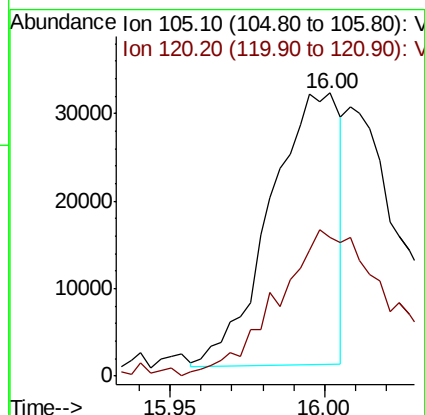
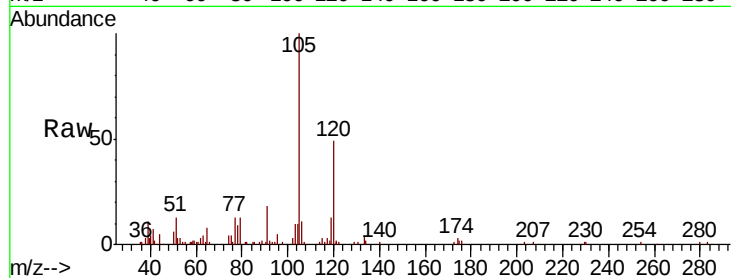
Acq: 6 May 2021 13:30

Tot Ion:105 Resp: 48569

Ion Ratio Lower Upper

105 100

120 51.4 36.8 55.2



#74

1,2,4-Trimethylbenzene

Concen: 0.270 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.00 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

Tgt Ion:105 Resp: 94325

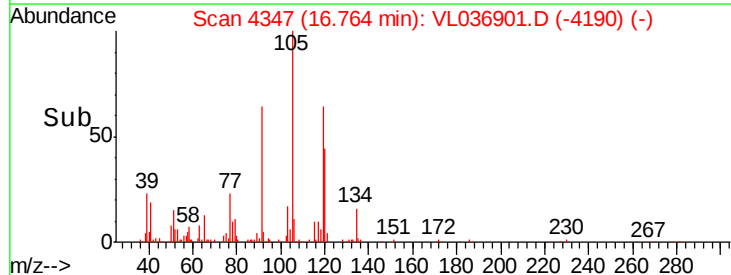
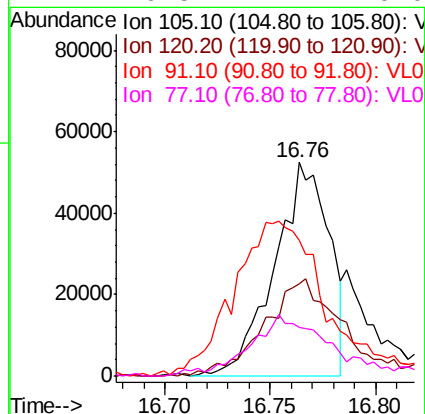
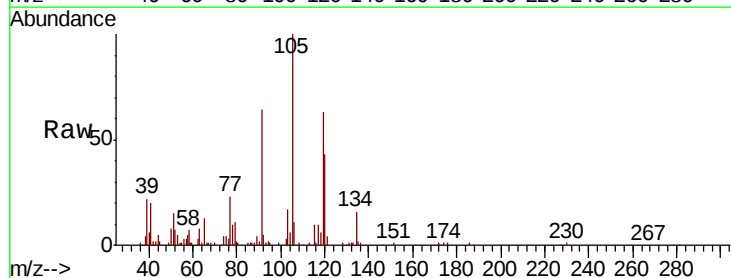
Ion Ratio Lower Upper

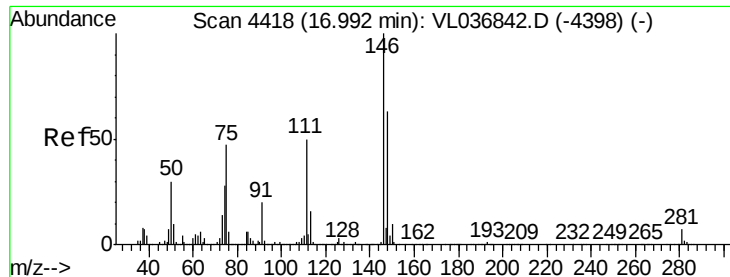
105 100

120 42.4 37.6 56.4

91 55.9 39.0 58.4

77 20.5 17.4 26.0





#75

1,3-Dichlorobenzene

Concen: 0.212 ppbv

RT: 17.00

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 6 May 2021 13:30

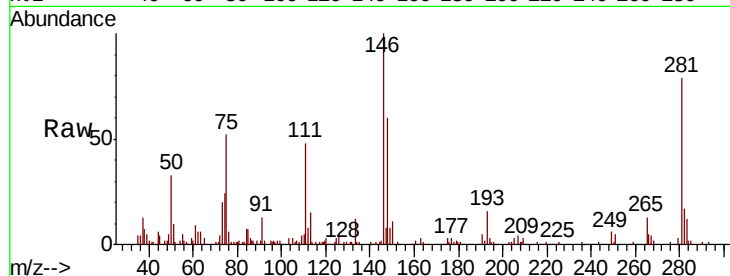
Tot Ion:146 Resp: 43823

Ion Ratio Lower Upper

146 100

111 96.7 24.2 72.6#

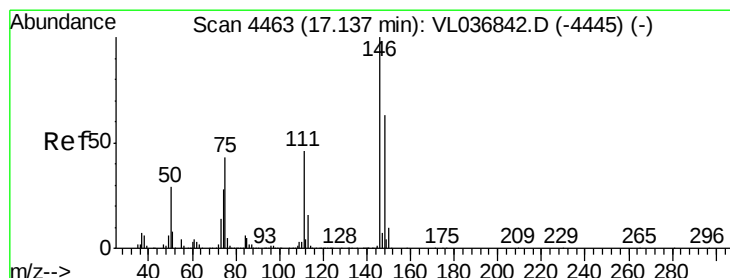
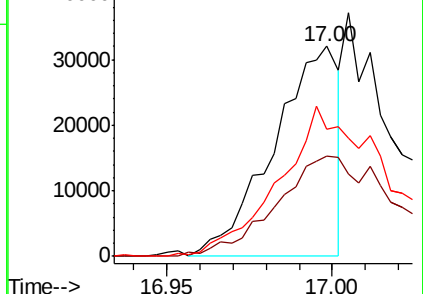
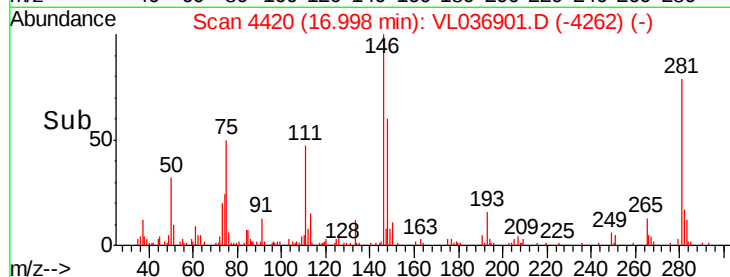
148 133.1 32.1 96.3#



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



#76

1,4-Dichlorobenzene

Concen: 0.068 ppbv

RT: 17.15 min Scan# 4466

Delta R.T. 0.01 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

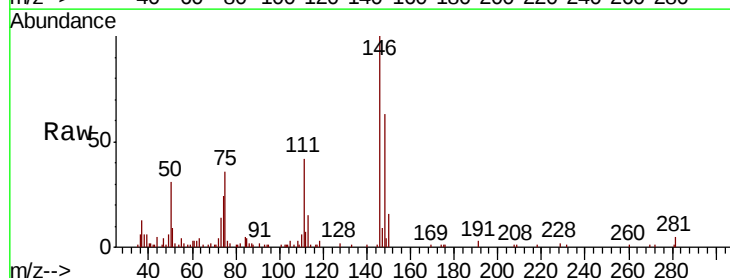
Tgt Ion:146 Resp: 13651

Ion Ratio Lower Upper

146 100

111 0.0 24.3 72.8#

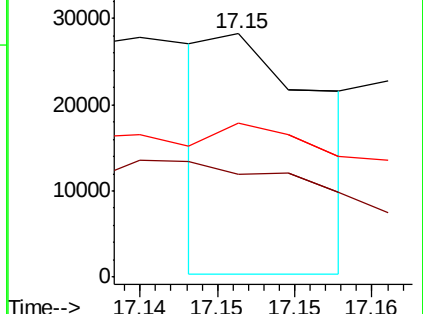
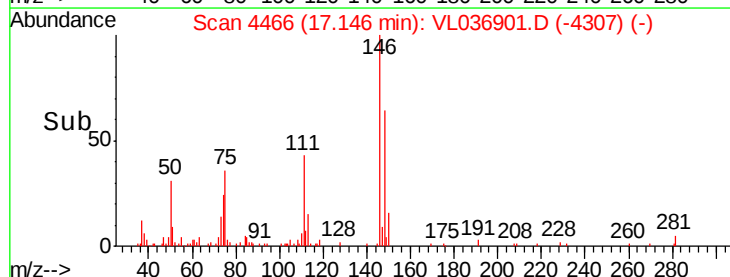
148 404.4 32.4 97.0#

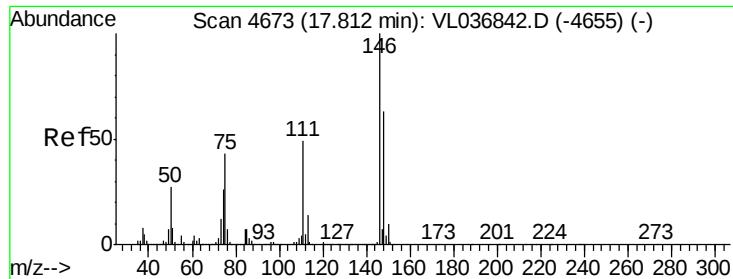


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.221 ppbv

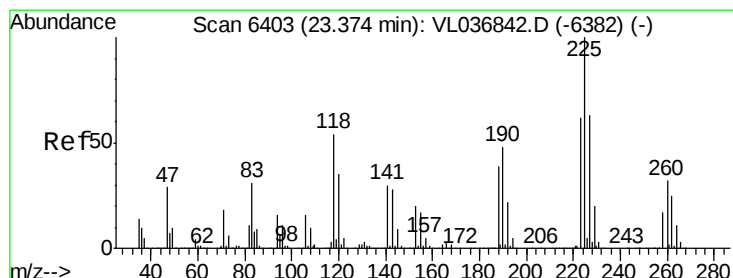
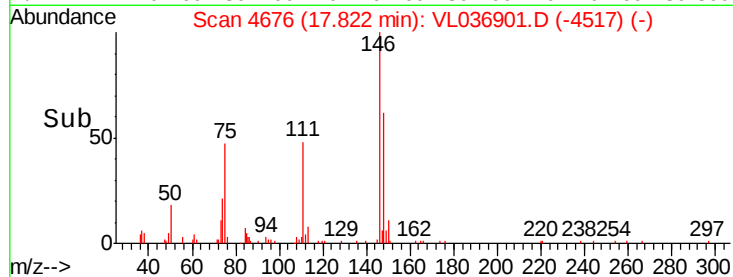
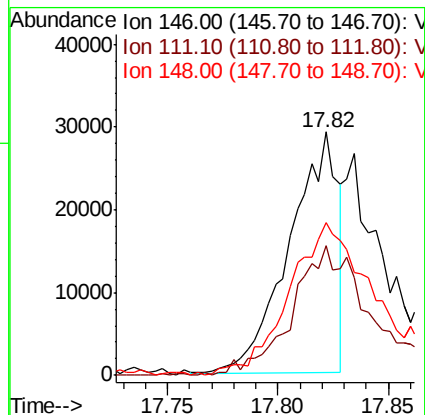
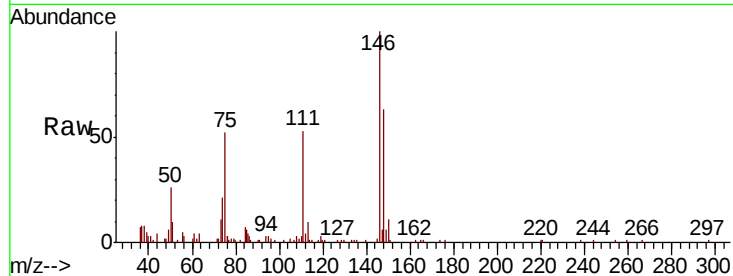
RT: 17.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 13:30

Tot Ion:146	Resp:	44489
Ion Ratio	Lower	Upper
146	100	
111	98.7	25.0 75.0#
148	125.4	32.4 97.0#



#78

Hexachloro-1,3-Butadiene

Concen: 0.197 ppbv

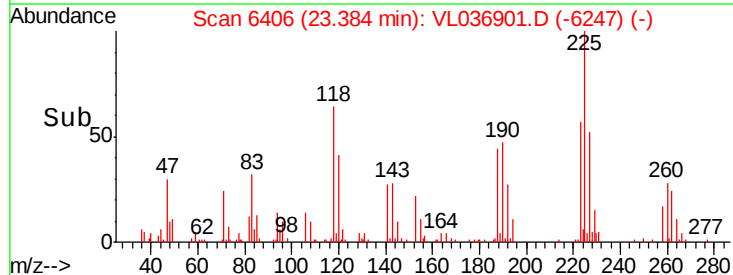
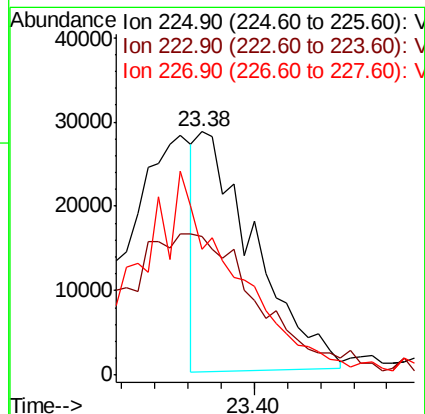
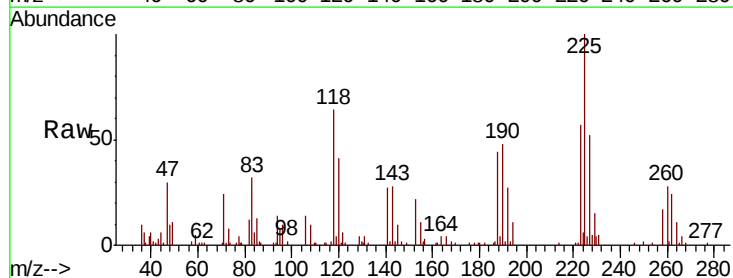
RT: 23.38 min Scan# 6406

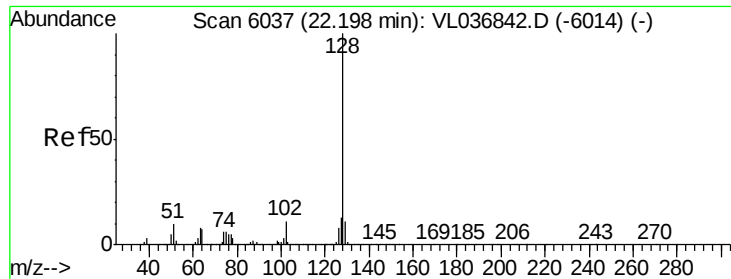
Delta R.T. 0.01 min

Lab File: VL036901.D

Acq: 6 May 2021 13:36

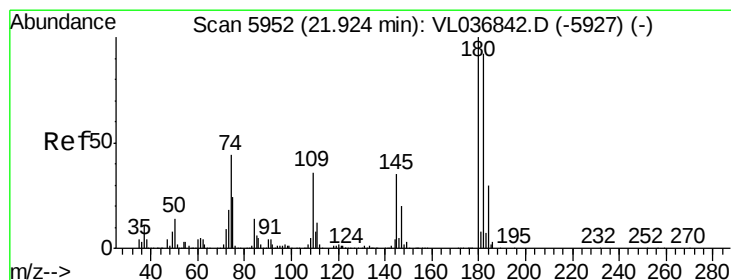
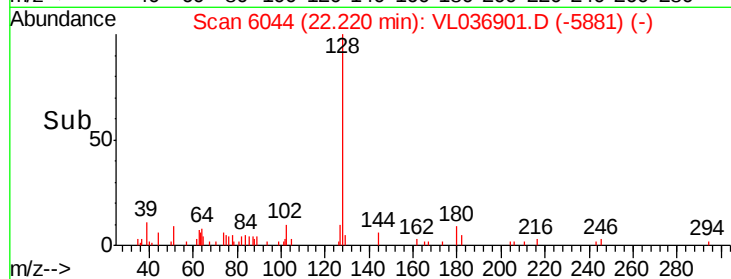
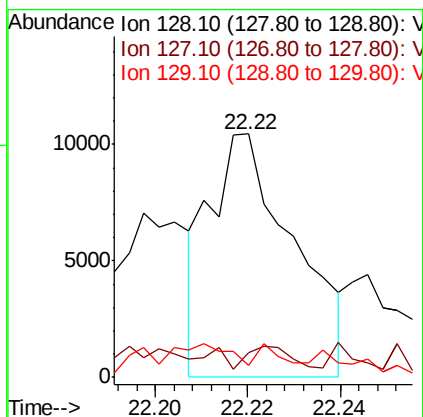
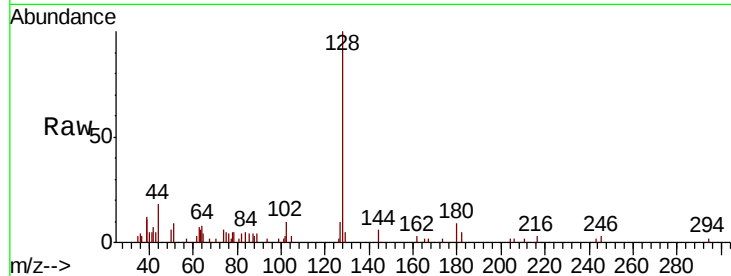
Tgt Ion:225	Resp:	33712
Ion Ratio	Lower	Upper
225	100	
223	0.0	51.2 76.8#
227	0.0	51.8 77.6#





#79
Naphthalene
Concen: 0.067 ppbv
RT: 22.22
Instrument: MSVOA_1
Delta R.T.:
ClientSampleId:
Lab File: LOD-MDL-AIR-01-OT2-2021
Acq: 6 May 2021 13:30

Tot Ion	Ratio	Lower	Upper
128	100		
127	4.5	10.6	15.8#
129	0.0	9.0	13.4#



#81
1,2,4-Trichlorobenzene
Concen: 0.091 ppbv
RT: 21.94 min Scan# 5957
Delta R.T.: 0.02 min
Lab File: VL036901.D
Acq: 6 May 2021 13:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	80.9	121.3#
184	0.0	25.3	37.9#

