

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060525\
 Data File : VL042619.D
 Acq On : 05 Jun 2025 13:11
 Operator : SY/MD
 Sample : Q2126-15 MDL 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

Quant Time: Jun 06 01:41:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.793	49	101758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	263661	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	236658	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	175310	9.882	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	1496	0.120	ppbv #	76
3) Chlorodifluoromethane	1.476	51	2253	0.131	ppbv	95
4) Chloromethane	1.534	50	619	0.125	ppbv	89
5) Vinyl Chloride	1.580	62	517	0.102	ppbv #	88
6) Bromomethane	1.670	94	331	0.135	ppbv #	41
7) Chloroethane	1.703	64	256	0.131	ppbv #	64
8) Dichlorotetrafluoroethane	1.554	85	1125	0.108	ppbv	92
9) Propene	1.431	41	213	0.031	ppbv	84
10) Heptane	4.981	43	905	0.046	ppbv #	38
11) Trichlorofluoromethane	1.881	101	1572	0.135	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	1101	0.120	ppbv	97
13) Ethanol	1.890	45	1246	1.507	ppbv #	39
14) Bromoethene	1.784	108	503	0.146	ppbv	88
15) Acetone	1.839	43	2202	0.180	ppbv #	90
16) 1,3-Butadiene	1.609	39	976	0.168	ppbv #	76
17) tert-Butyl alcohol	2.049	59	1589	0.124	ppbv #	79
18) 1,1-Dichloroethene	2.036	96	533	0.126	ppbv #	67
19) Isopropyl Alcohol	1.890	45	1246	0.170	ppbv	100
20) Methylene Chloride	2.062	84	1096	0.271	ppbv	95
21) Allyl Chloride	2.101	41	1165	0.135	ppbv #	86
22) trans-1,2-Dichloroethene	2.343	96	528	0.112	ppbv #	84
23) Vinyl Acetate	2.466	43	2801	0.169	ppbv #	74
24) 1,1-Dichloroethane	2.415	63	511	0.052	ppbv #	88
25) Ethyl Acetate	2.845	43	2305	0.069	ppbv #	78
26) Hexane	2.829	57	1458	0.096	ppbv #	8
27) Carbon Disulfide	2.153	76	1341	0.115	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	682	0.110	ppbv #	79
29) Chloroform	2.852	83	2536	0.128	ppbv	94
30) Cyclohexane	3.865	84	381	0.030	ppbv #	1
31) cis-1,2-Dichloroethene	2.343	61	975	0.070	ppbv	89
32) 1,1,1-Trichloroethane	3.373	97	2237	0.110	ppbv	97
34) 2-Butanone	2.567	43	2570	0.137	ppbv	96
35) Carbon Tetrachloride	3.768	117	2072	0.119	ppbv #	76
36) Benzene	3.664	78	2534	0.098	ppbv #	82
37) 1,2-Dichloroethane	3.227	62	1859	0.144	ppbv #	91
38) Trichloroethene	4.554	130	500	0.045	ppbv #	49
39) 1,2-Dichloropropane	3.965	63	65626	6.835	ppbv #	22
42) Bromodichloromethane	4.502	83	1456	0.079	ppbv #	73
43) Methyl Methacrylate	4.891	69	384	0.038	ppbv #	1
44) 2,2,4-Trimethylpentane	4.645	57	3162	0.071	ppbv #	57
45) t-1,3-Dichloropropene	6.431	75	438	0.038	ppbv #	72
47) 1,1,2-Trichloroethane	6.590	97	332	0.033	ppbv #	55
48) Dibromochloromethane	7.399	129	1042	0.065	ppbv #	10

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Quant Time: Jun 06 01:41:21 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

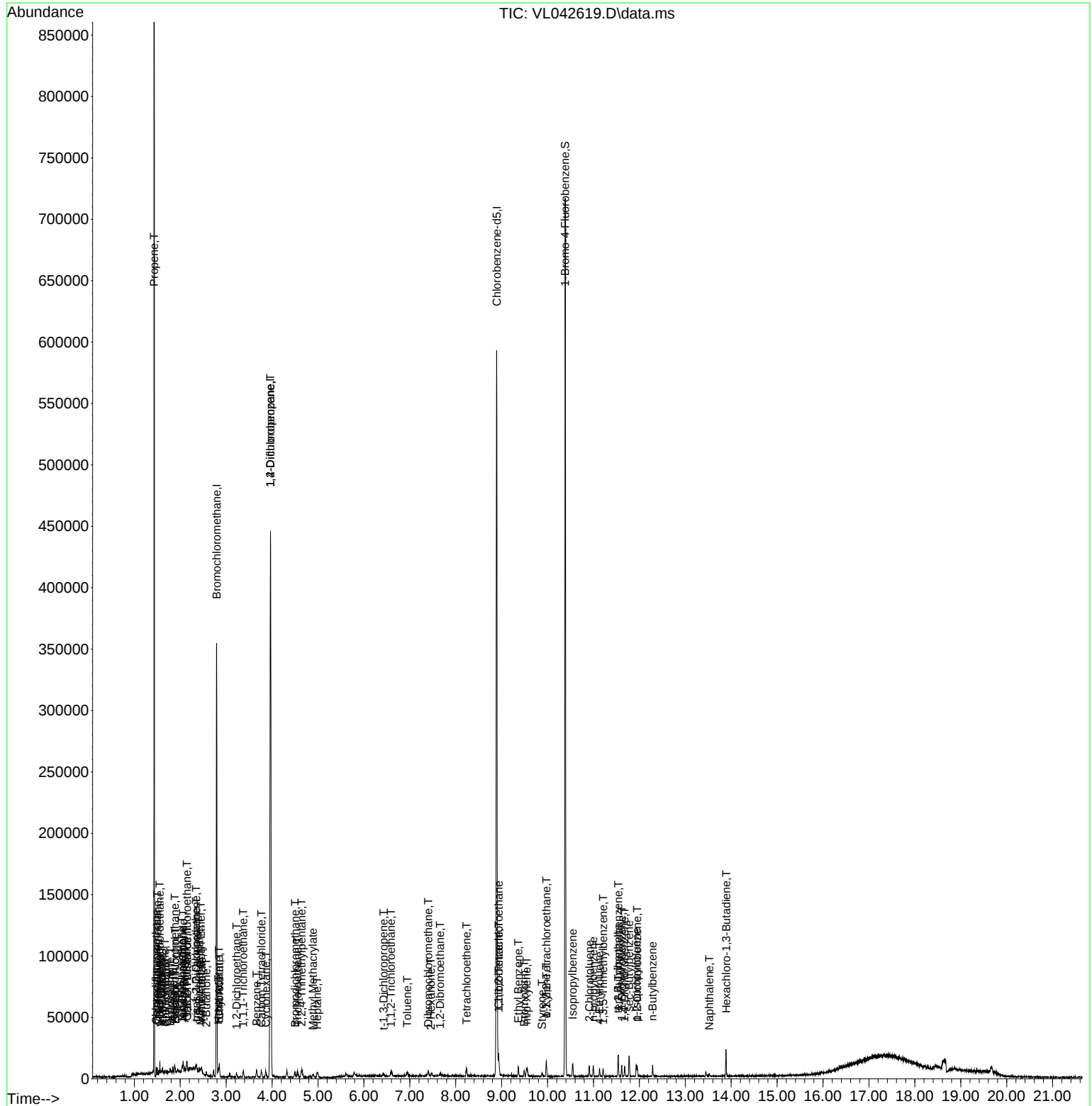
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

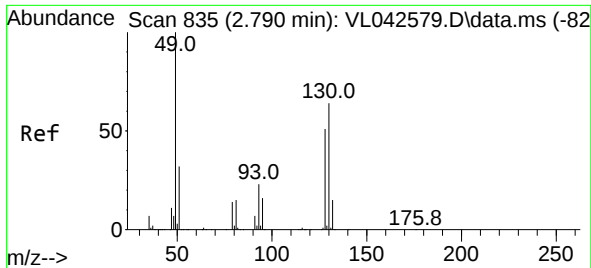
49) Bromoform	9.490	173	1449	0.106	ppbv	90
51) 2-Hexanone	7.457	43	713	0.034	ppbv #	28
52) Tetrachloroethene	8.237	164	1032	0.106	ppbv #	71
53) Toluene	6.946	91	2152	0.072	ppbv #	62
54) 1,2-Dibromoethane	7.661	107	1140	0.077	ppbv	88
56) 1,1,1,2-Tetrachloroethane	8.937	131	1293	0.109	ppbv #	39
57) Chlorobenzene	8.933	112	1263	0.055	ppbv #	91
58) Ethyl Benzene	9.364	91	3155	0.079	ppbv	99
59) m/p-Xylene	9.542	91	1628	0.052	ppbv #	1
60) o-Xylene	9.969	91	2317	0.074	ppbv	86
61) Styrene	9.878	104	976	0.066	ppbv #	86
62) Isopropylbenzene	10.548	105	4374	0.094	ppbv	96
63) 1,1,2,2-Tetrachloroethane	9.975	83	2418	0.121	ppbv	97
64) n-propylbenzene	10.998	120	432	0.035	ppbv #	1
65) tert-Butylbenzene	11.536	119	3148	0.075	ppbv	91
67) sec-Butylbenzene	11.775	105	4329	0.073	ppbv	96
69) p-Isopropyltoluene	11.937	119	3198	0.064	ppbv #	89
70) n-Butylbenzene	12.286	91	2843	0.058	ppbv	98
71) 2-Chlorotoluene	10.911	91	3343	0.094	ppbv	96
72) 4-Ethyltoluene	11.131	105	2270	0.058	ppbv #	86
73) 1,3,5-Trimethylbenzene	11.209	105	2317	0.071	ppbv #	76
74) 1,2,4-Trimethylbenzene	11.539	105	2472	0.069	ppbv #	72
75) 1,3-Dichlorobenzene	11.616	146	1878	0.083	ppbv	94
76) 1,4-Dichlorobenzene	11.678	146	2032	0.090	ppbv	97
77) 1,2-Dichlorobenzene	11.953	146	1900	0.086	ppbv	89
78) Hexachloro-1,3-Butadiene	13.892	225	633	0.035	ppbv #	19
79) Naphthalene	13.520	128	1125	0.033	ppbv #	81

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

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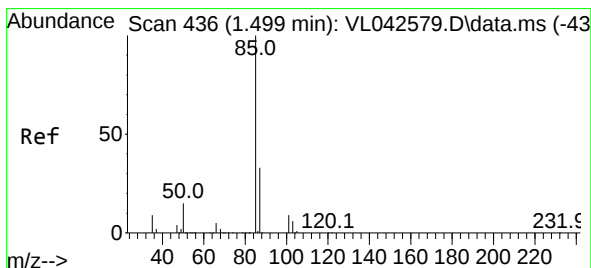
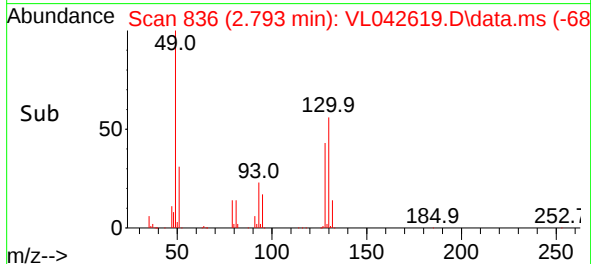
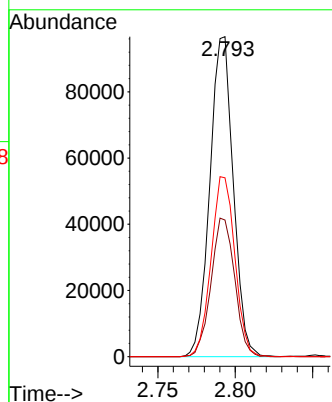
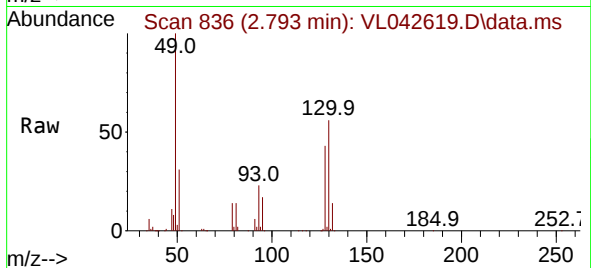




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

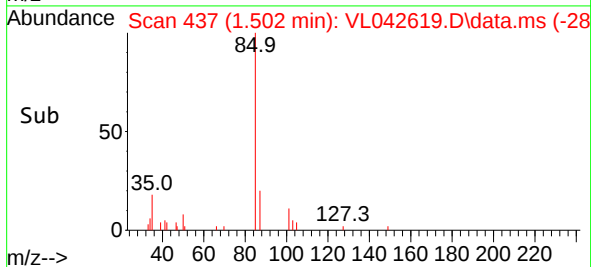
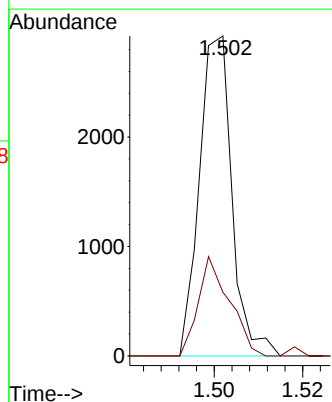
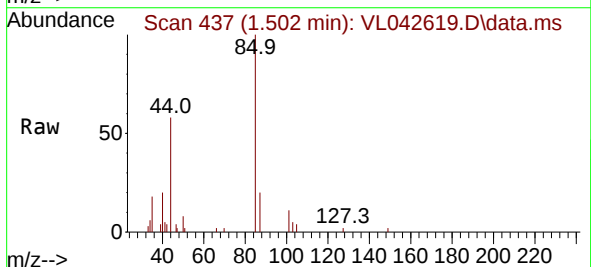
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

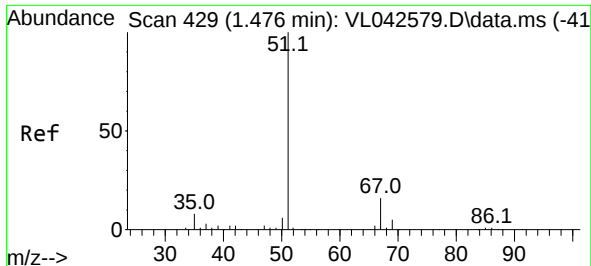
Tgt Ion: 49 Resp: 101758
Ion Ratio Lower Upper
49 100
128 43.7 24.2 72.6
130 57.0 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.120 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 85 Resp: 1496
Ion Ratio Lower Upper
85 100
87 19.9 26.6 39.8#

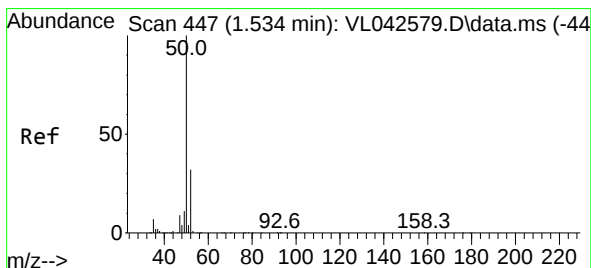
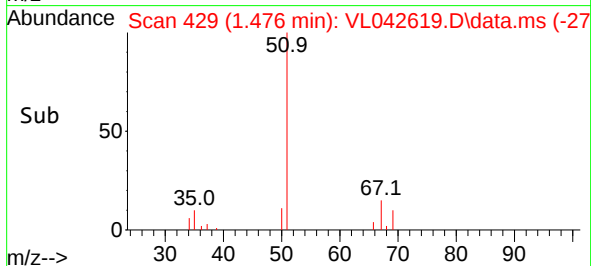
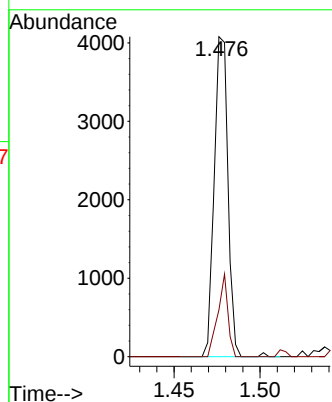
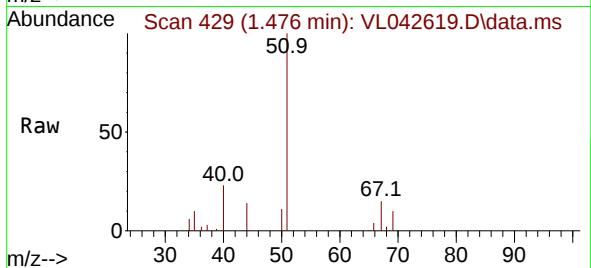




#3
Chlorodifluoromethane
Concen: 0.131 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

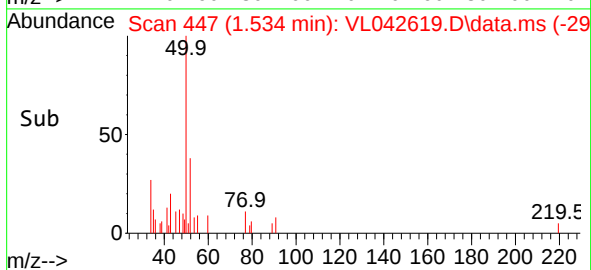
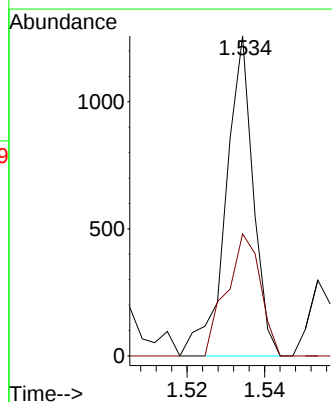
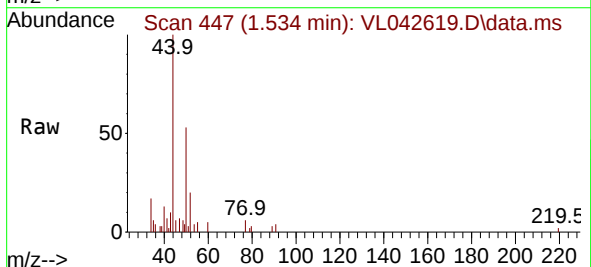
Instrument :
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ClientSampleId :
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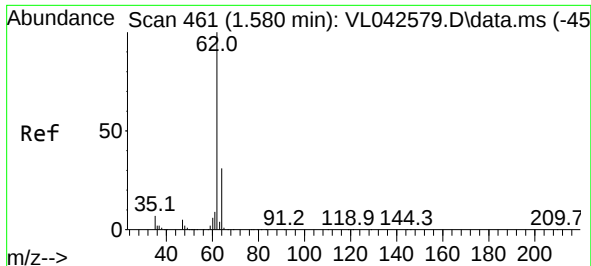
Tgt Ion: 51 Resp: 2253
Ion Ratio Lower Upper
51 100
67 19.0 13.4 20.2



#4
Chloromethane
Concen: 0.125 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 50 Resp: 619
Ion Ratio Lower Upper
50 100
52 38.1 25.8 38.6

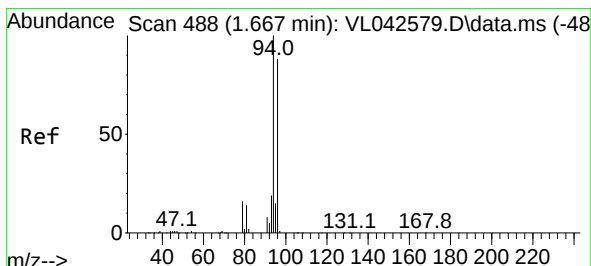
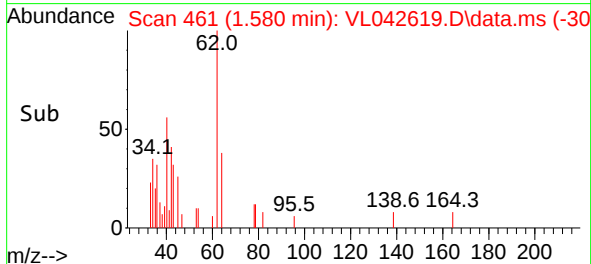
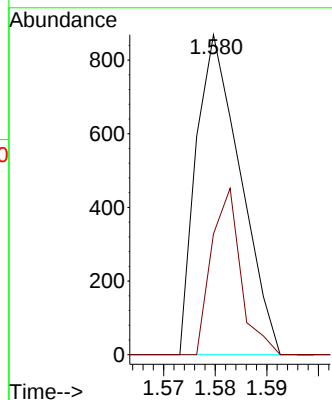
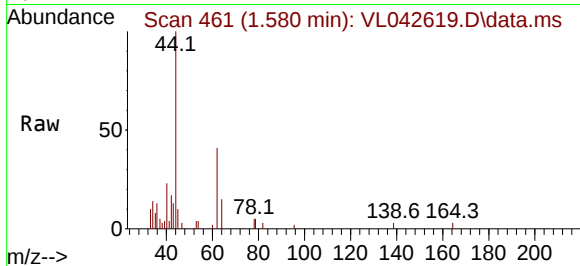




#5
 Vinyl Chloride
 Concen: 0.102 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

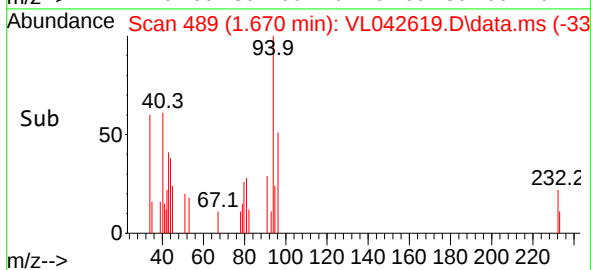
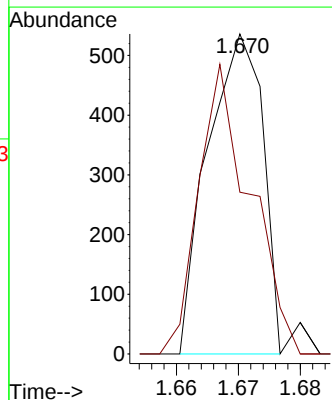
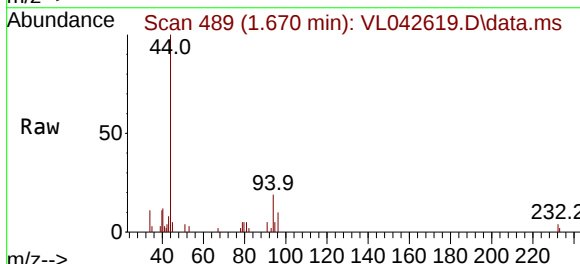
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

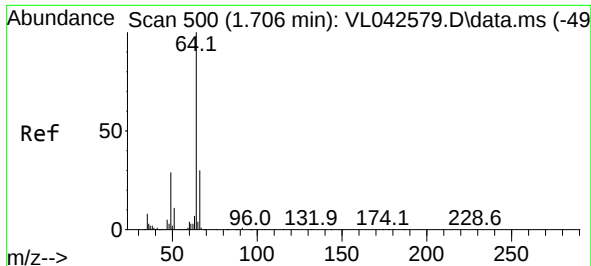
Tgt Ion: 62 Resp: 517
 Ion Ratio Lower Upper
 62 100
 64 37.7 24.9 37.3#



#6
 Bromomethane
 Concen: 0.135 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

Tgt Ion: 94 Resp: 331
 Ion Ratio Lower Upper
 94 100
 96 33.2 70.7 106.1#

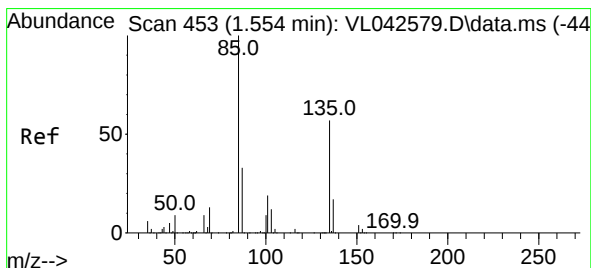
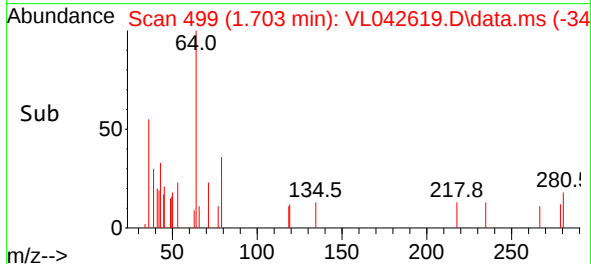
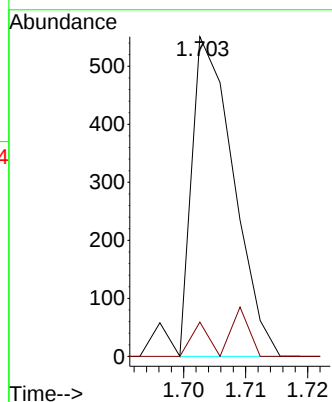
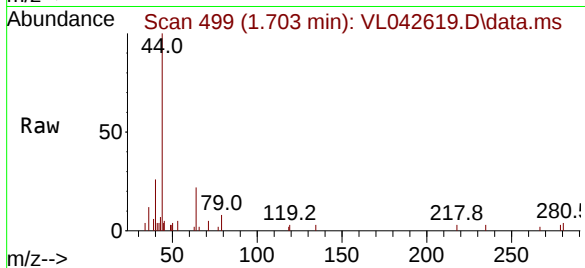




#7
Chloroethane
Concen: 0.131 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

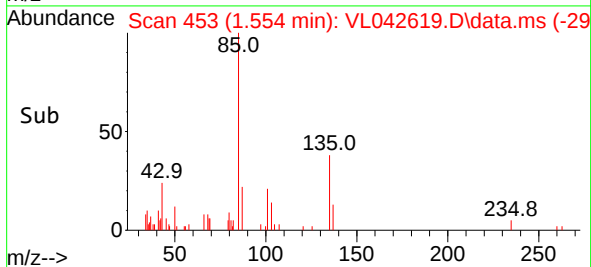
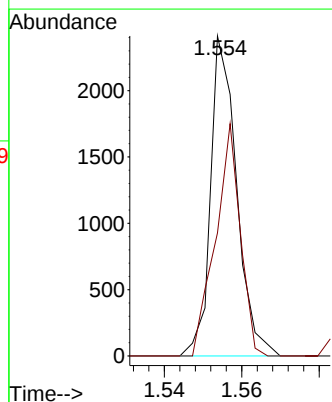
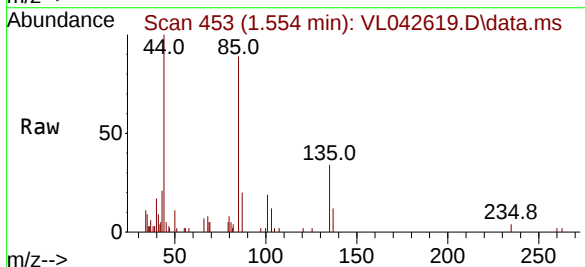
Instrument :
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MDL-AIR-03-QT2-2025

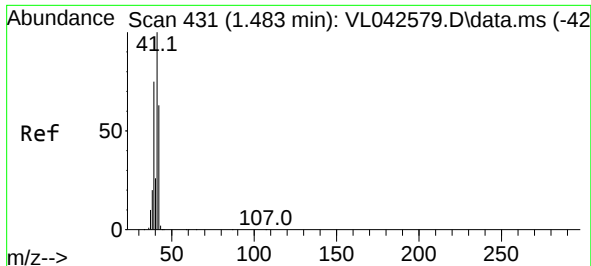
Tgt Ion: 64 Resp: 256
Ion Ratio Lower Upper
64 100
66 10.7 24.3 36.5#



#8
Dichlorotetrafluoroethane
Concen: 0.108 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 85 Resp: 1125
Ion Ratio Lower Upper
85 100
135 69.1 50.2 75.4





#9

Propene

Concen: 0.031 ppbv

RT: 1.431 min Scan# 41

Delta R.T. -0.052 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

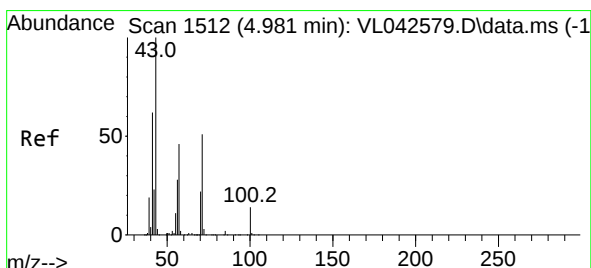
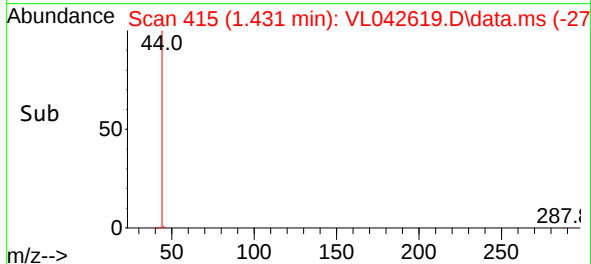
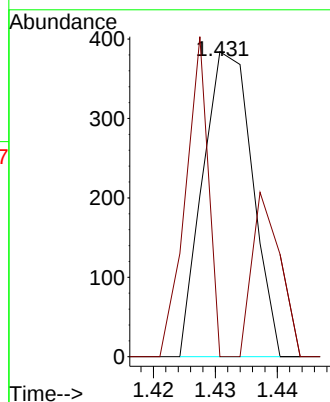
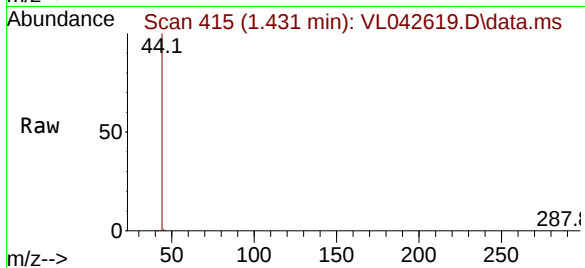
MDL-AIR-03-QT2-2025

Tgt Ion: 41 Resp: 213

Ion Ratio Lower Upper

41 100

42 79.3 53.3 79.9



#10

Heptane

Concen: 0.046 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. -0.000 min

Lab File: VL042619.D

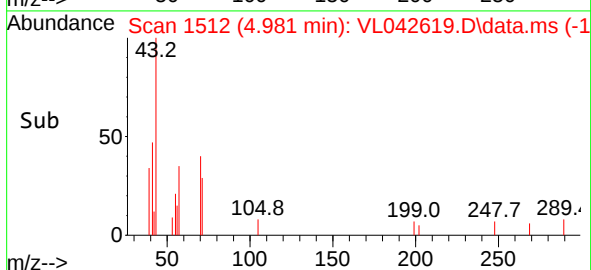
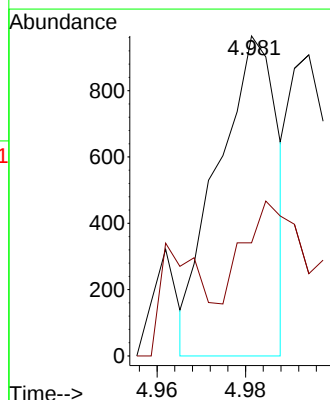
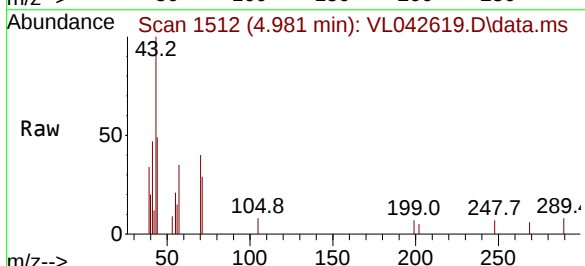
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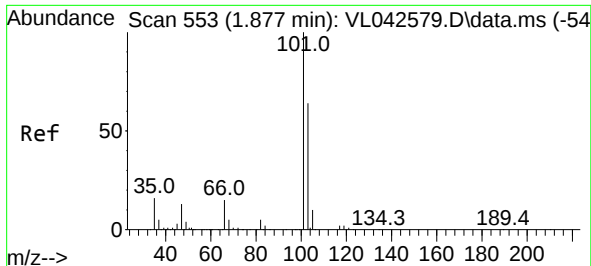
Tgt Ion: 43 Resp: 905

Ion Ratio Lower Upper

43 100

57 90.7 38.9 58.3#

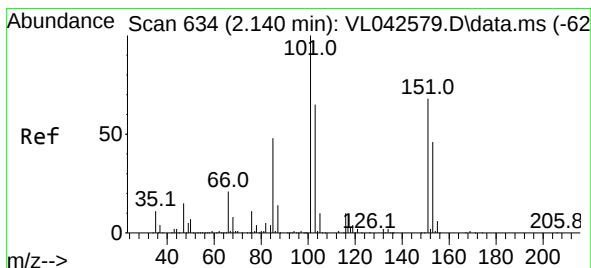
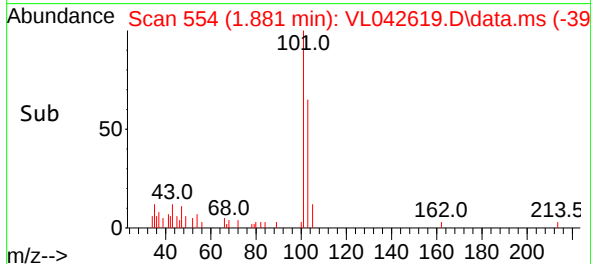
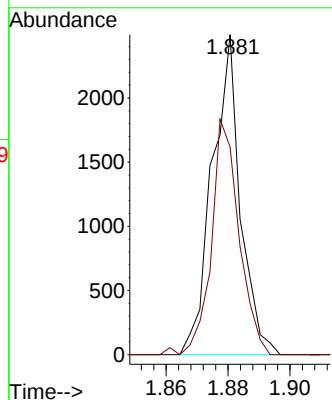
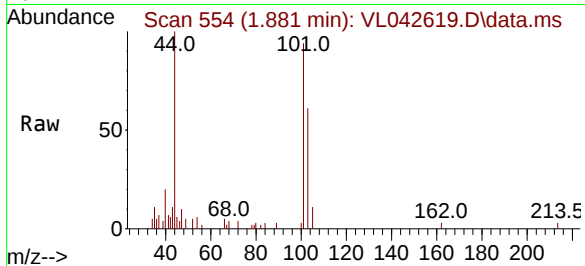




#11
 Trichlorofluoromethane
 Concen: 0.135 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

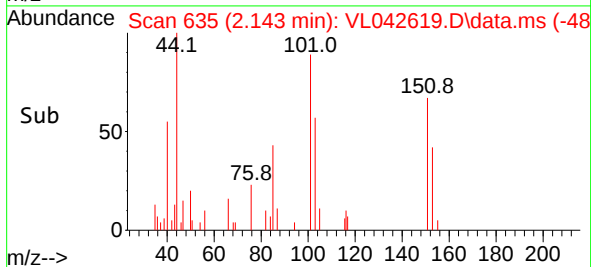
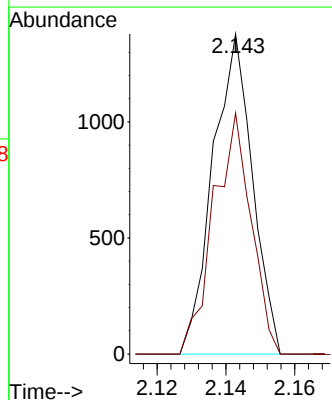
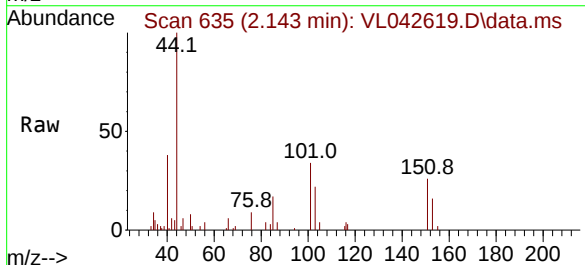
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

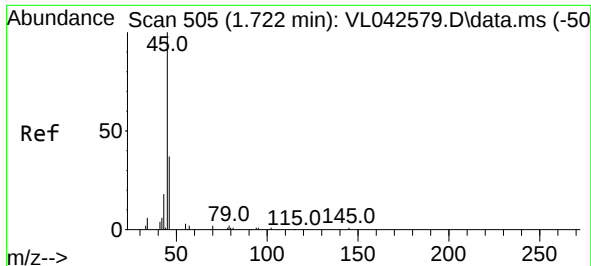
Tgt Ion:101 Resp: 1572
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.120 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.003 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

Tgt Ion:101 Resp: 1101
 Ion Ratio Lower Upper
 101 100
 151 71.5 55.3 82.9

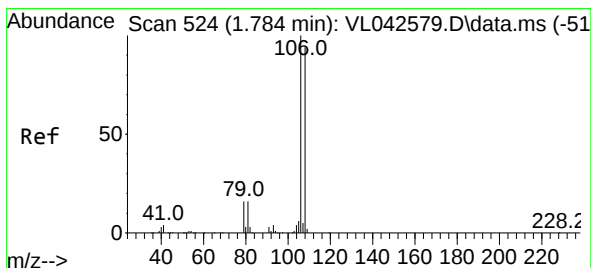
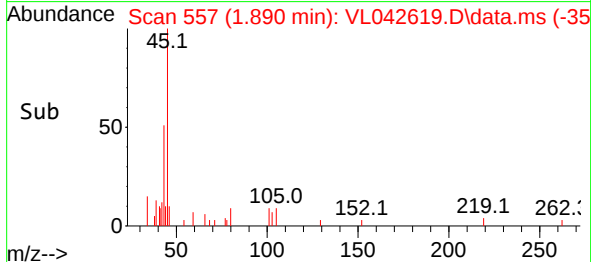
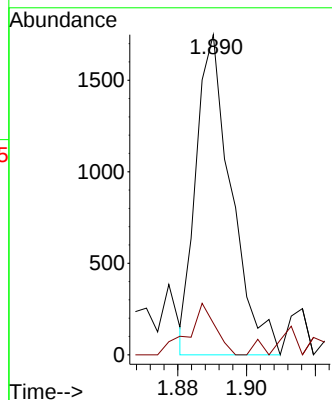
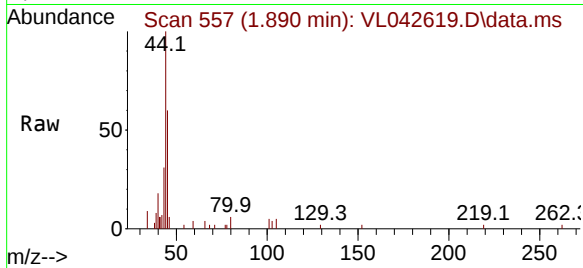




#13
Ethanol
Concen: 1.507 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.168 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

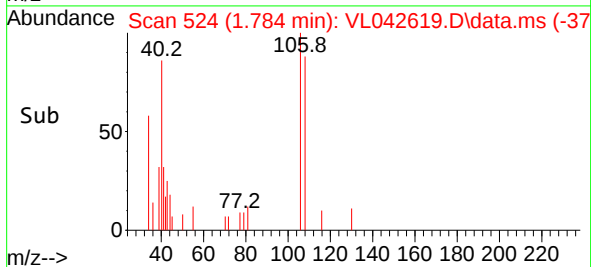
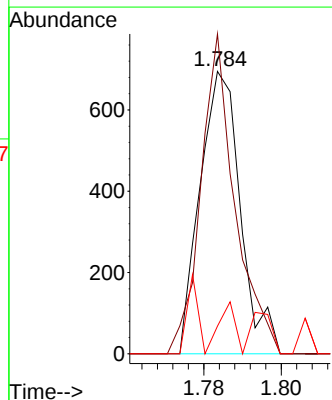
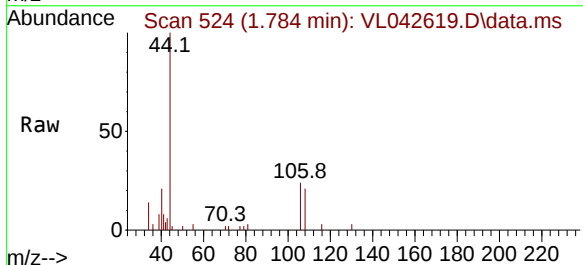
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

Tgt Ion: 45 Resp: 1246
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1#



#14
Bromoethene
Concen: 0.146 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.000 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 108 Resp: 503
Ion Ratio Lower Upper
108 100
106 95.2 87.9 131.9
79 18.5 15.6 23.4





#15

Acetone

Concen: 0.180 ppbv

RT: 1.839 min Scan# 540

Delta R.T. 0.003 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

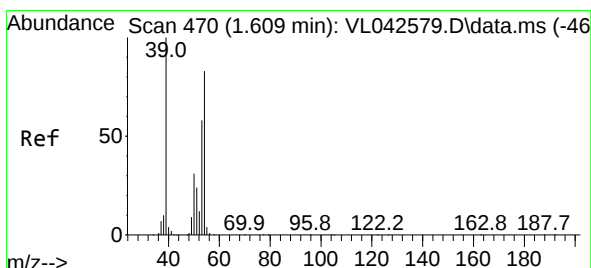
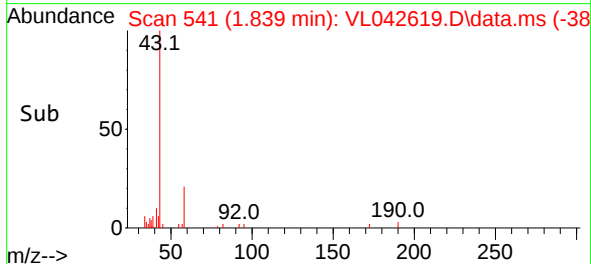
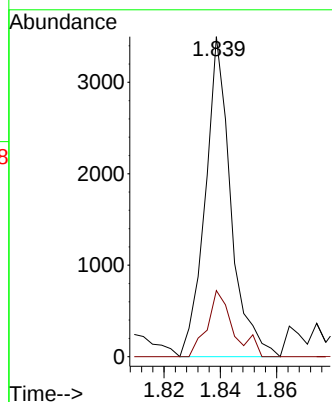
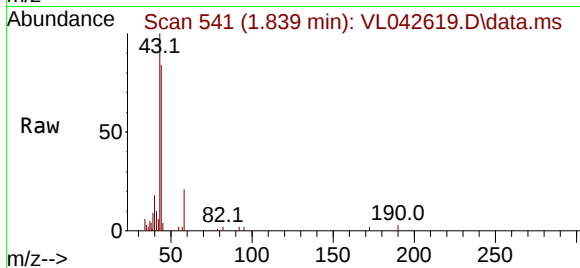
MDL-AIR-03-QT2-2025

Tgt Ion: 43 Resp: 2202

Ion Ratio Lower Upper

43 100

58 20.8 21.0 31.4#



#16

1,3-Butadiene

Concen: 0.168 ppbv

RT: 1.609 min Scan# 470

Delta R.T. -0.000 min

Lab File: VL042619.D

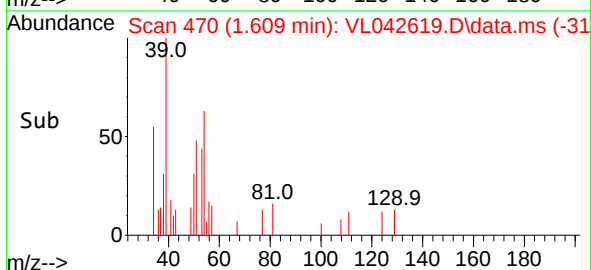
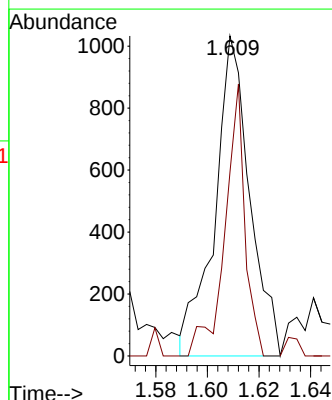
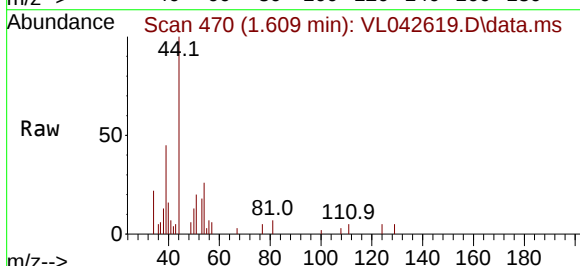
Acq: 05 Jun 2025 13:11

Tgt Ion: 39 Resp: 976

Ion Ratio Lower Upper

39 100

54 52.3 57.9 86.9#





#17

tert-Butyl alcohol

Concen: 0.124 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.006 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

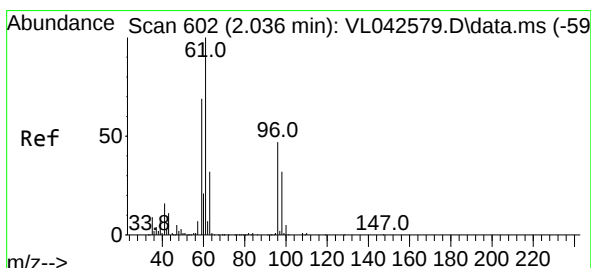
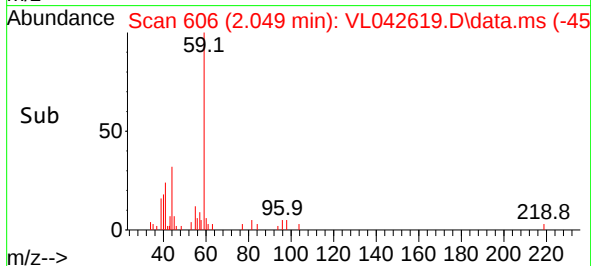
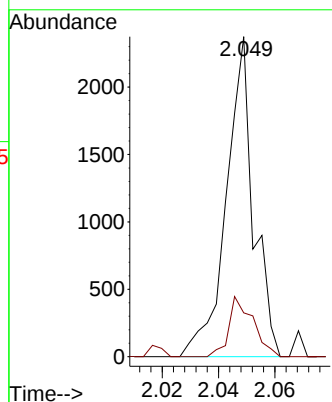
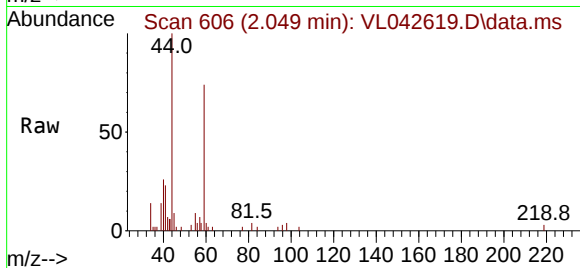
MDL-AIR-03-QT2-2025

Tgt Ion: 59 Resp: 1589

Ion Ratio Lower Upper

59 100

57 18.6 8.6 12.8#



#18

1,1-Dichloroethene

Concen: 0.126 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

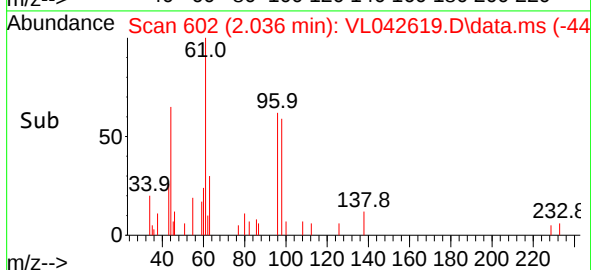
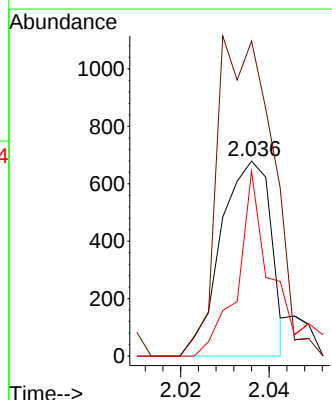
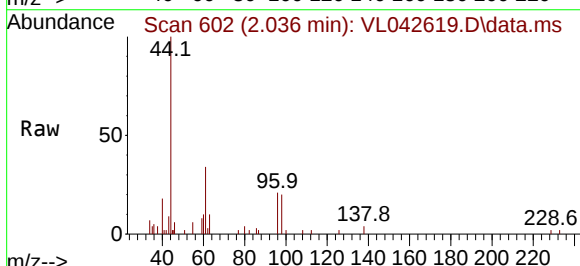
Tgt Ion: 96 Resp: 533

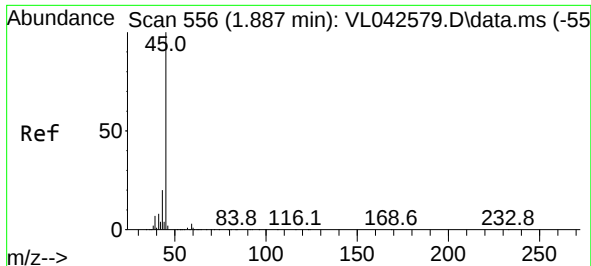
Ion Ratio Lower Upper

96 100

61 161.6 171.1 256.7#

98 94.8 54.4 81.6#

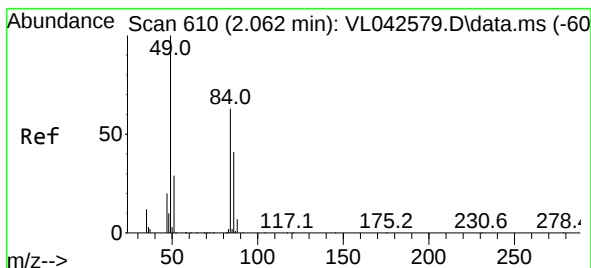
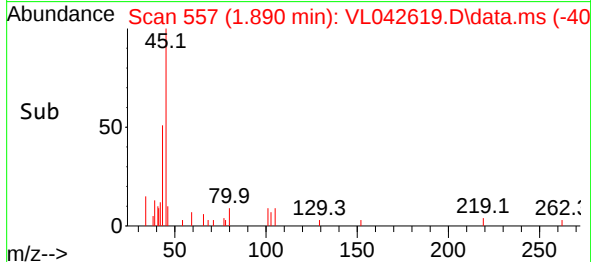
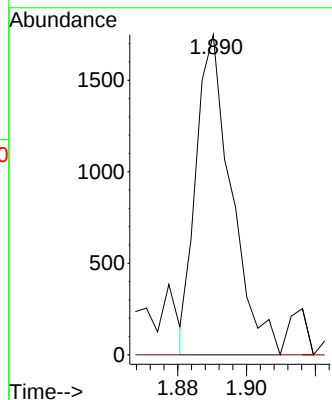
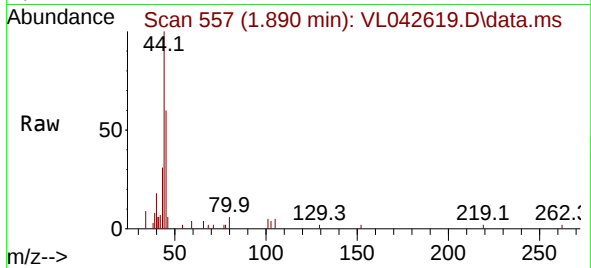




#19
Isopropyl Alcohol
Concen: 0.170 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

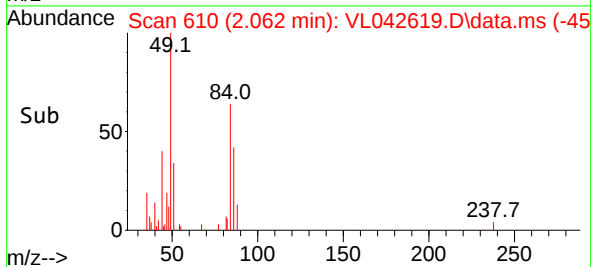
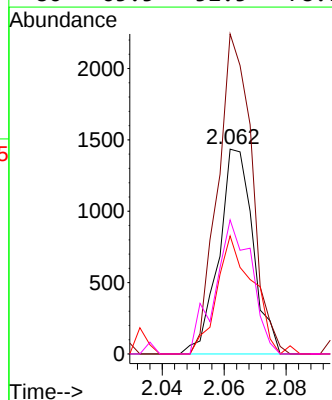
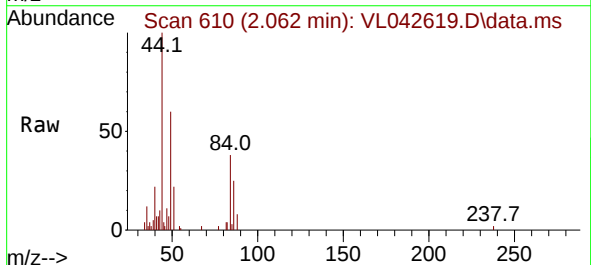
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

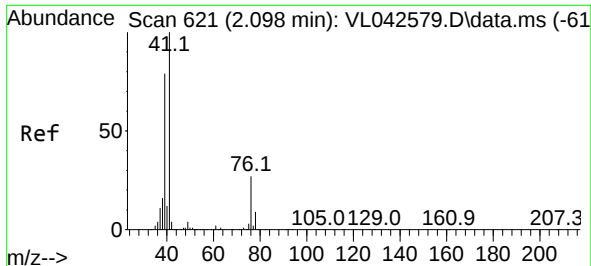
Tgt Ion: 45 Resp: 1246
Ion Ratio Lower Upper
45 100
58 36.8 29.4 44.2



#20
Methylene Chloride
Concen: 0.271 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 84 Resp: 1096
Ion Ratio Lower Upper
84 100
49 156.2 128.8 193.2
51 57.7 38.6 57.8
86 65.5 52.5 78.7

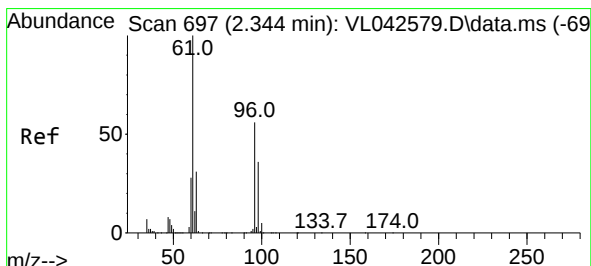
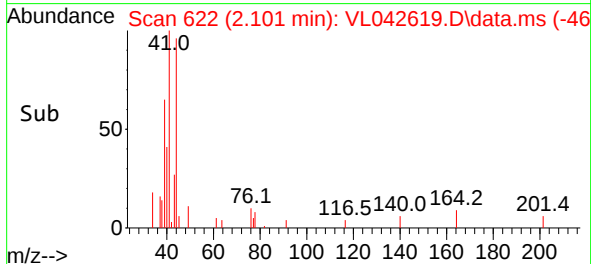
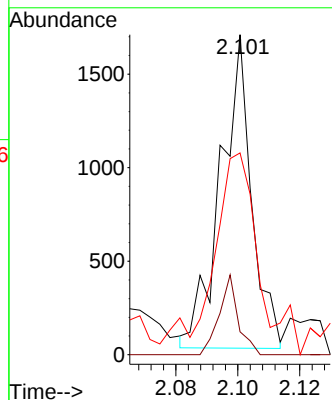
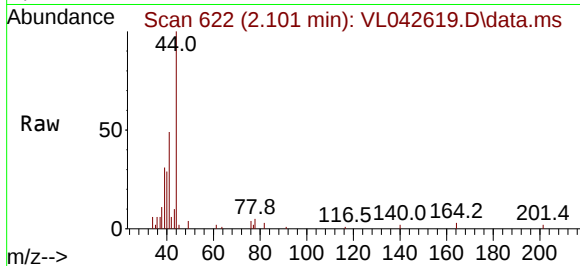




#21
 Allyl Chloride
 Concen: 0.135 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

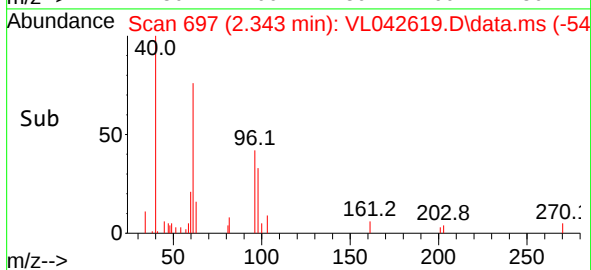
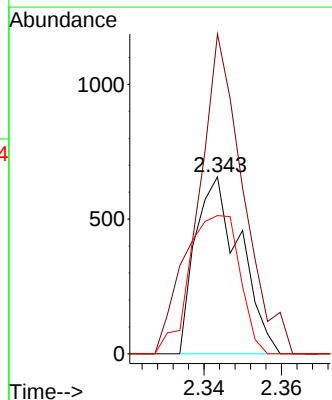
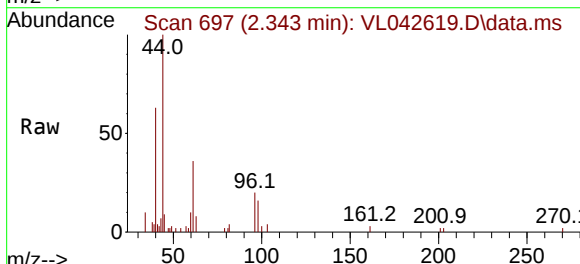
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

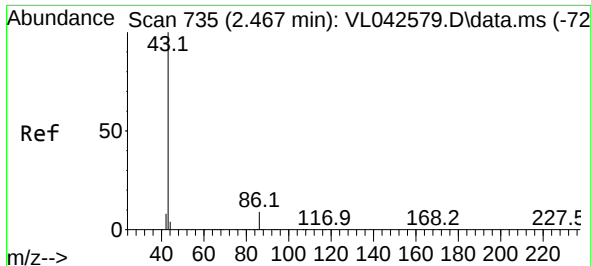
Tgt Ion: 41 Resp: 1165
 Ion Ratio Lower Upper
 41 100
 76 15.5 21.2 31.8#
 39 86.3 60.9 91.3



#22
 trans-1,2-Dichloroethene
 Concen: 0.112 ppbv
 RT: 2.343 min Scan# 697
 Delta R.T. -0.000 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

Tgt Ion: 96 Resp: 528
 Ion Ratio Lower Upper
 96 100
 61 157.2 142.6 214.0
 98 78.1 51.0 76.4#

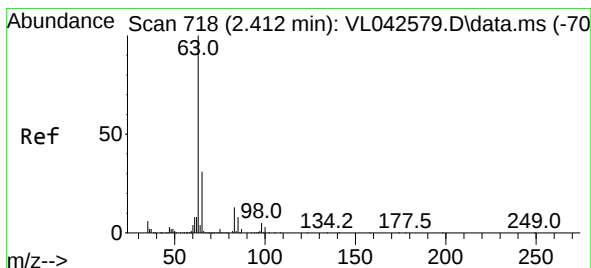
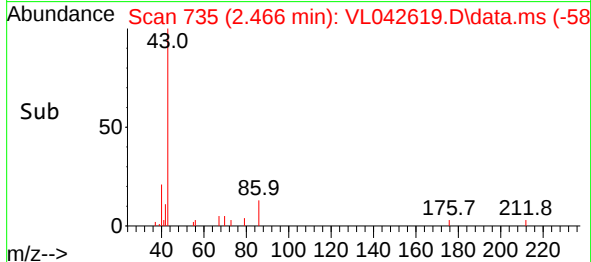
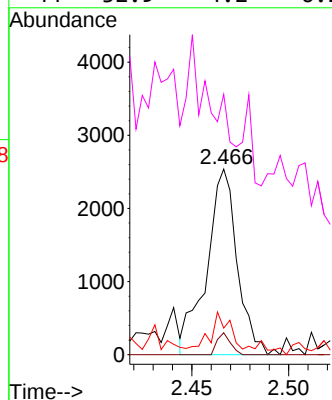
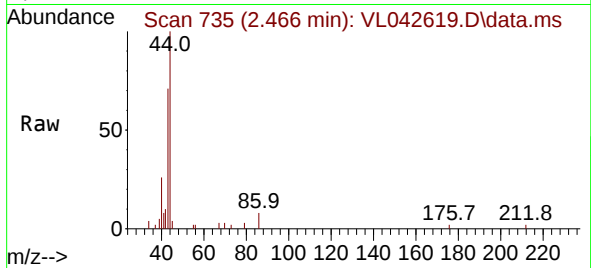




#23
 Vinyl Acetate
 Concen: 0.169 ppbv
 RT: 2.466 min Scan# 719
 Delta R.T. -0.000 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

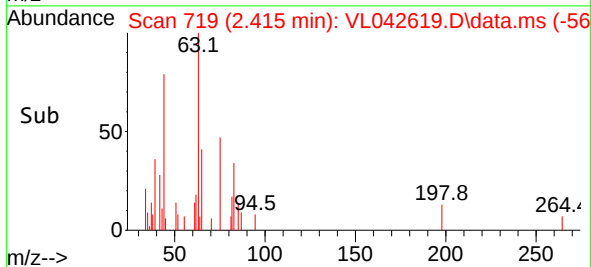
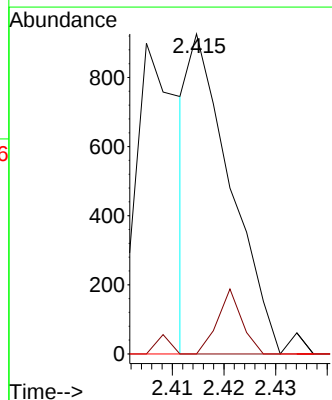
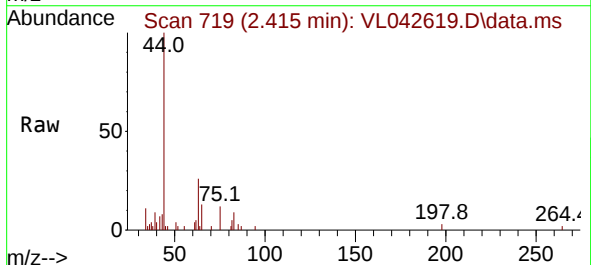
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

Tgt Ion:	43	Resp:	2801
Ion	Ratio	Lower	Upper
43	100		
86	11.9	6.6	9.8#
42	10.6	7.0	10.4#
44	32.9	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 0.052 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

Tgt Ion:	63	Resp:	511
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.4	7.1#
100	0.0	1.4	4.0#





#25

Ethyl Acetate

Concen: 0.069 ppbv

RT: 2.845 min Scan# 850

Delta R.T. 0.006 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025

Tgt Ion: 43 Resp: 2305

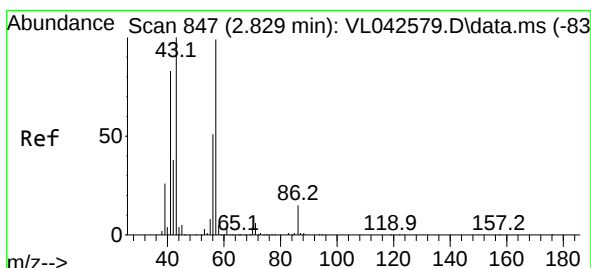
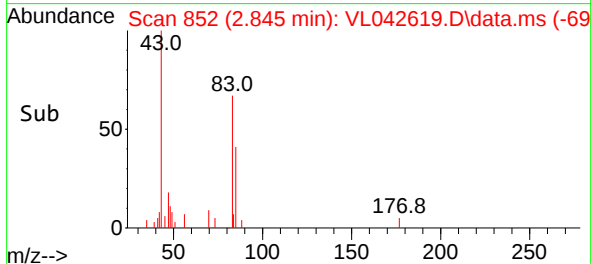
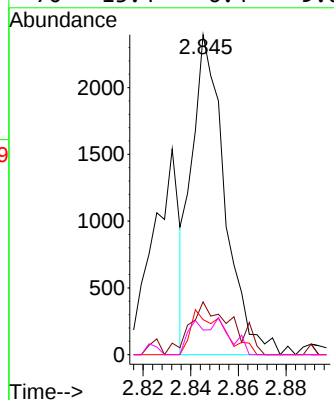
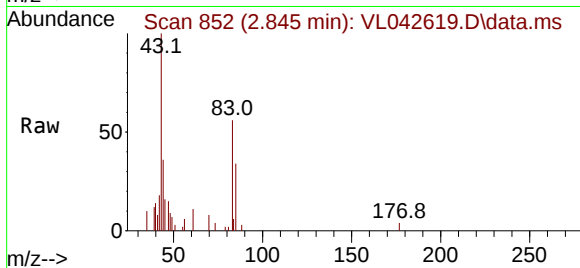
Ion Ratio Lower Upper

43 100

45 22.8 8.2 12.2#

61 13.7 7.1 10.7#

70 13.4 6.4 9.6#



#26

Hexane

Concen: 0.096 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.000 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Tgt Ion: 57 Resp: 1458

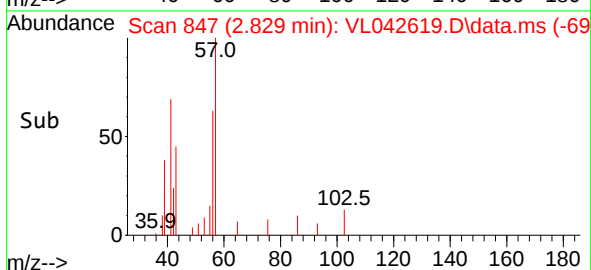
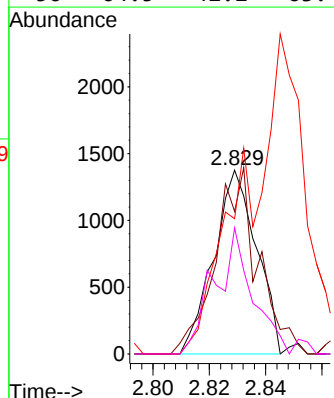
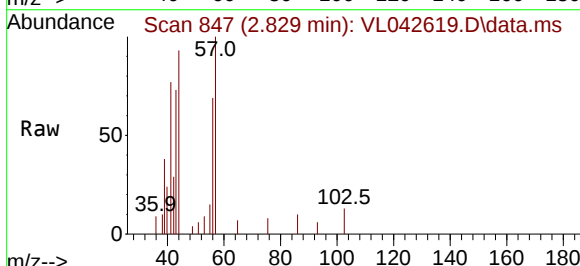
Ion Ratio Lower Upper

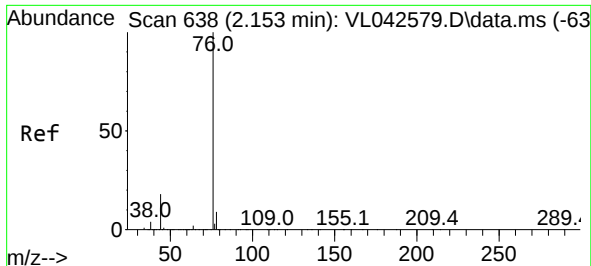
57 100

41 103.8 70.6 106.0

43 0.0 181.1 271.7#

56 64.5 42.2 63.4#

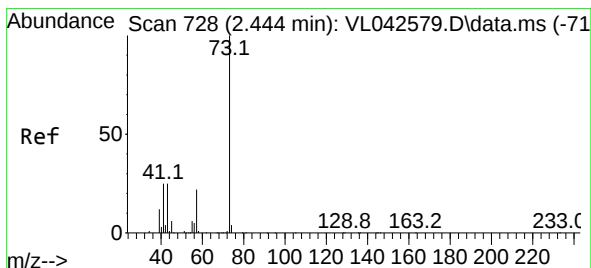
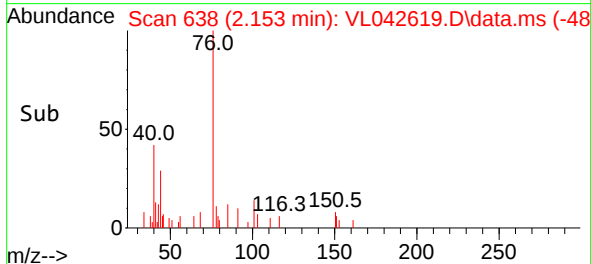
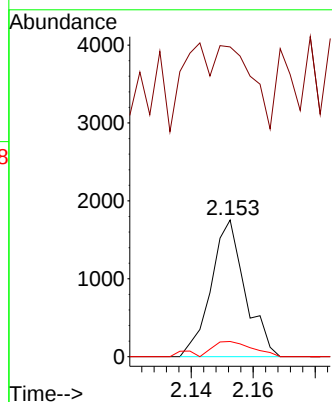
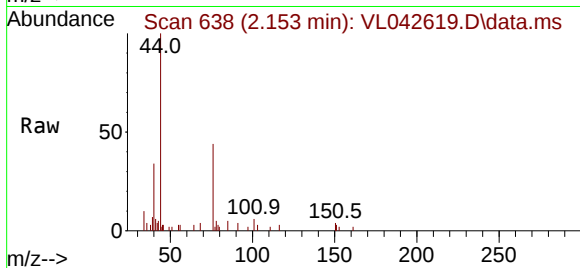




#27
Carbon Disulfide
Concen: 0.115 ppbv
RT: 2.153 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

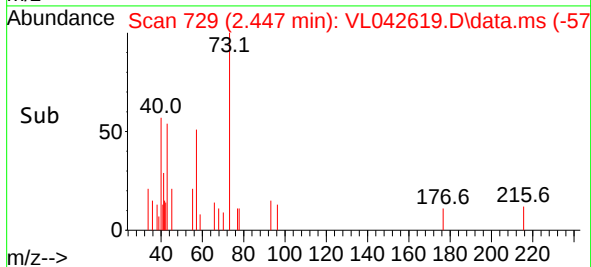
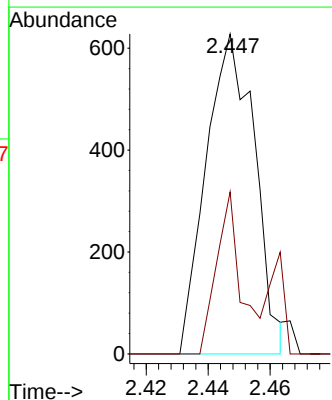
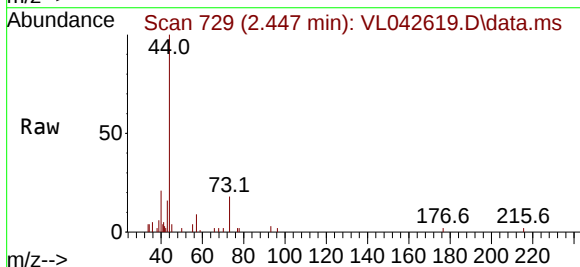
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

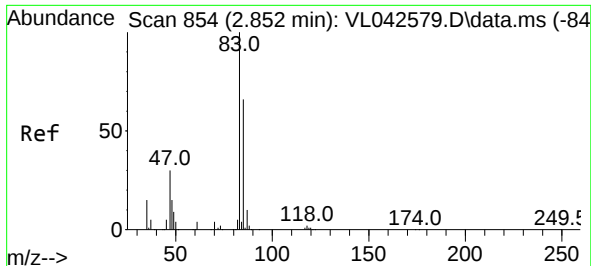
Tgt Ion: 76 Resp: 1341
Ion Ratio Lower Upper
76 100
44 240.3 21.3 31.9#
78 15.1 9.4 14.0#



#28
Methyl tert-Butyl Ether
Concen: 0.110 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 73 Resp: 682
Ion Ratio Lower Upper
73 100
57 35.3 19.9 29.9#





#29

Chloroform

Concen: 0.128 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

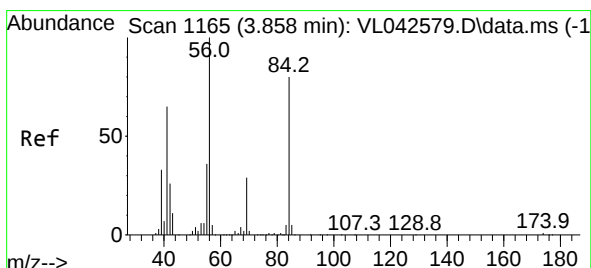
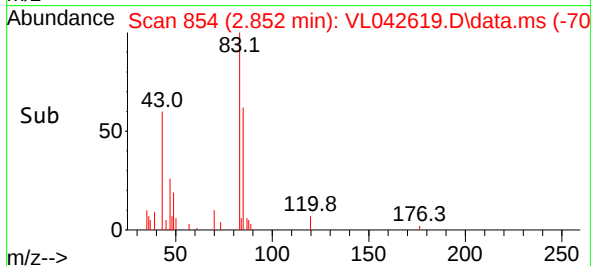
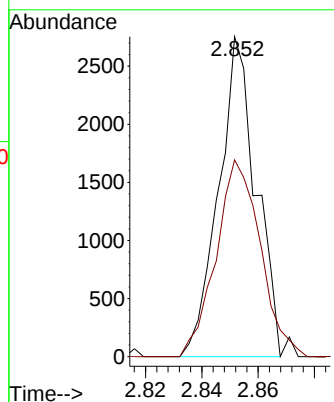
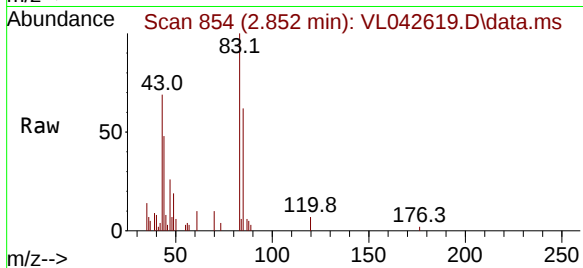
MDL-AIR-03-QT2-2025

Tgt Ion: 83 Resp: 2536

Ion Ratio Lower Upper

83 100

85 61.5 52.8 79.2



#30

Cyclohexane

Concen: 0.030 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.006 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

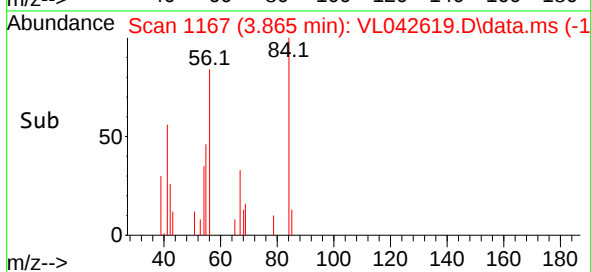
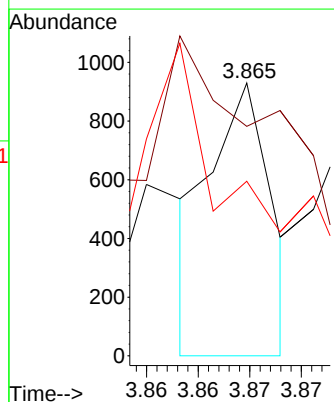
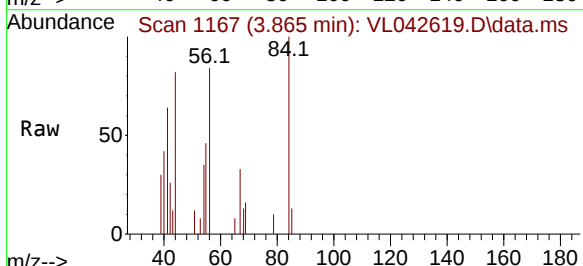
Tgt Ion: 84 Resp: 381

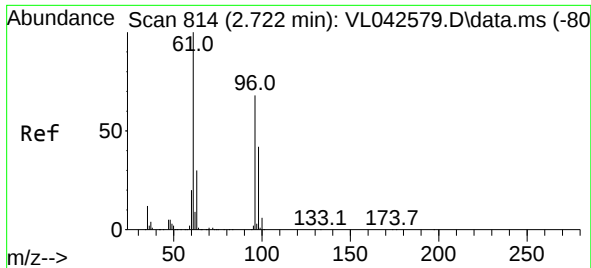
Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

41 0.0 65.1 97.7#

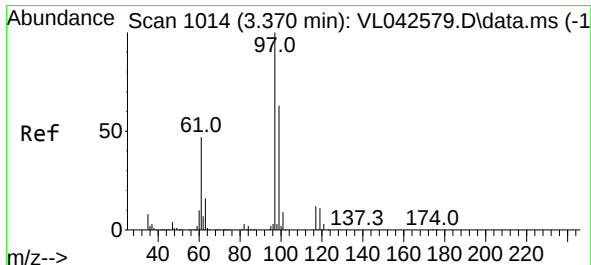
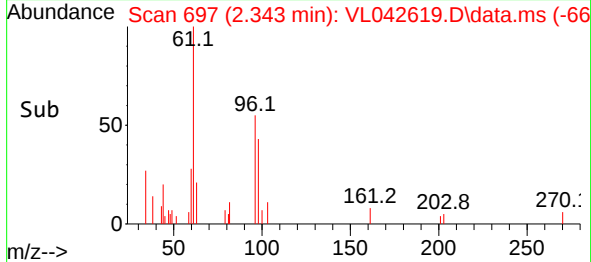
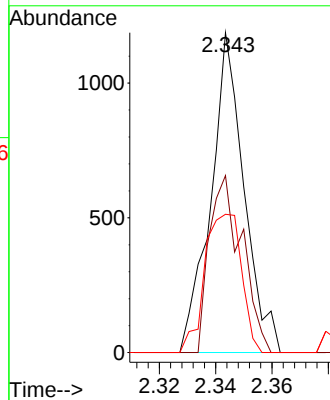
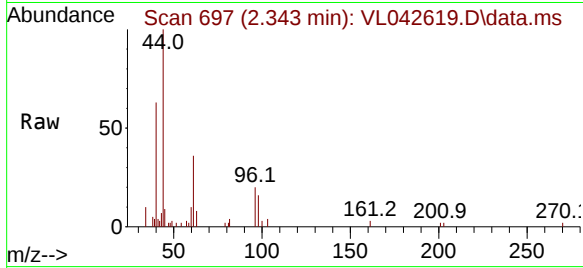




#31
 cis-1,2-Dichloroethene
 Concen: 0.070 ppbv
 RT: 2.343 min Scan# 61
 Delta R.T. -0.379 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

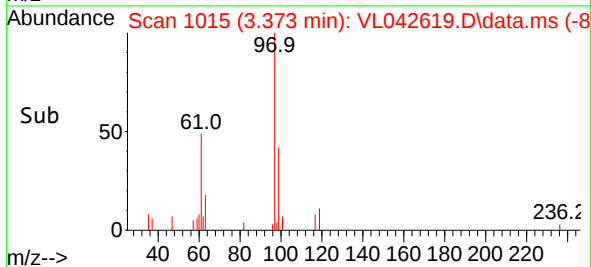
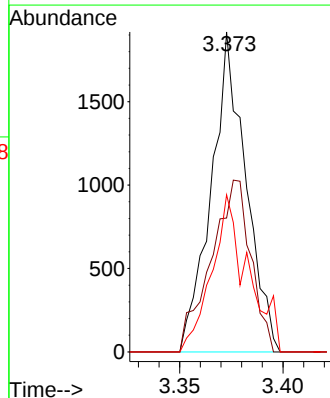
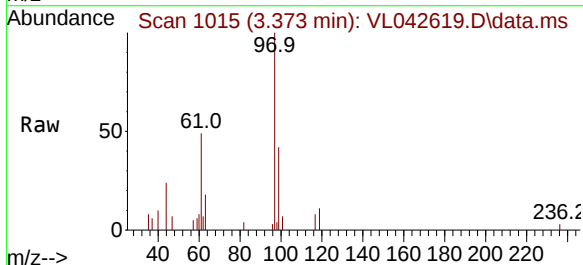
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

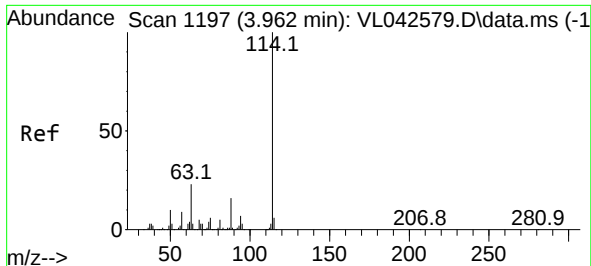
Tgt Ion: 61	Resp:	975
Ion Ratio	Lower	Upper
61	100	
96	55.3	54.5 81.7
98	43.2	33.4 50.2



#32
 1,1,1-Trichloroethane
 Concen: 0.110 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.003 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

Tgt Ion: 97	Resp:	2237
Ion Ratio	Lower	Upper
97	100	
99	61.5	51.0 76.6
61	51.3	39.4 59.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025

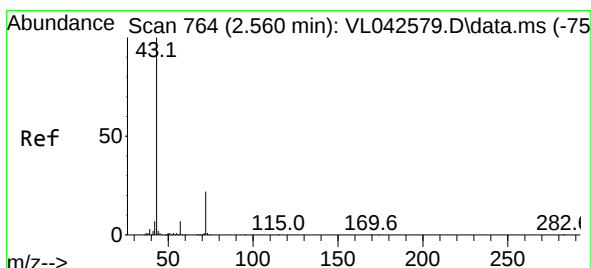
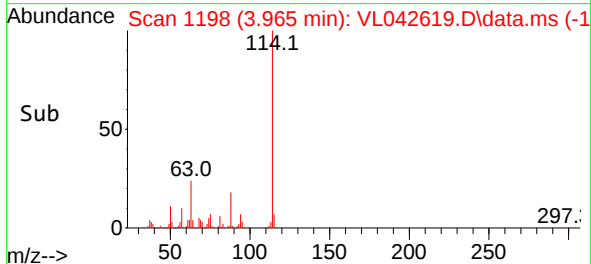
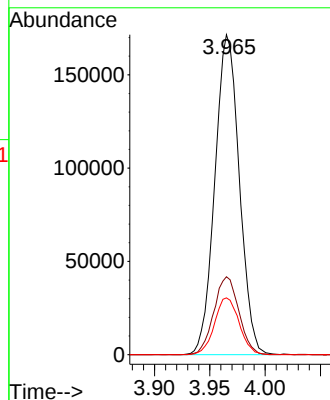
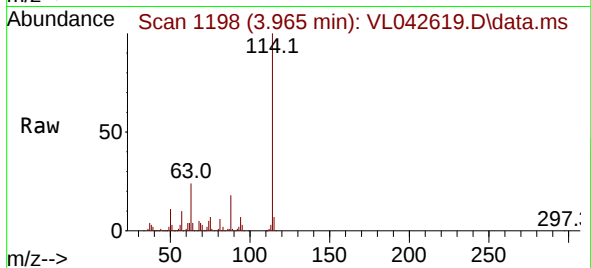
Tgt Ion:114 Resp: 263661

Ion Ratio Lower Upper

114 100

63 25.0 19.0 28.6

88 17.9 13.6 20.4



#34

2-Butanone

Concen: 0.137 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042619.D

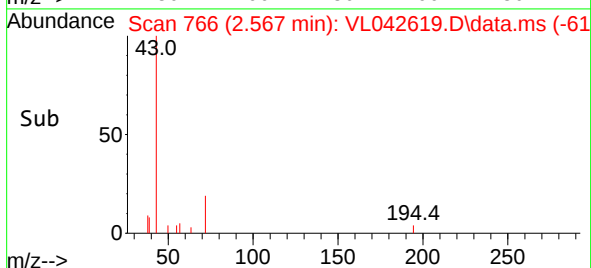
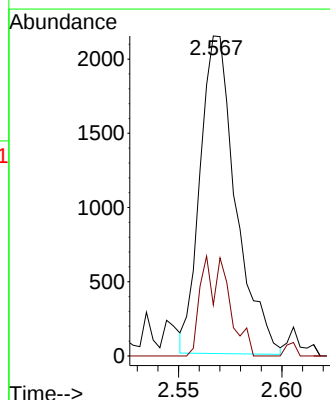
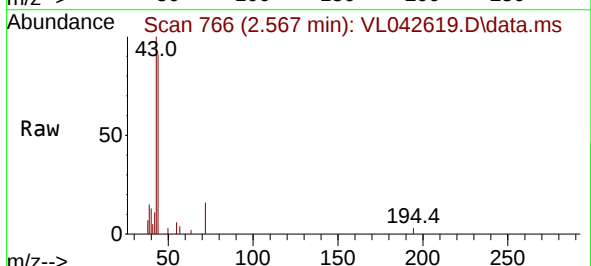
Acq: 05 Jun 2025 13:11

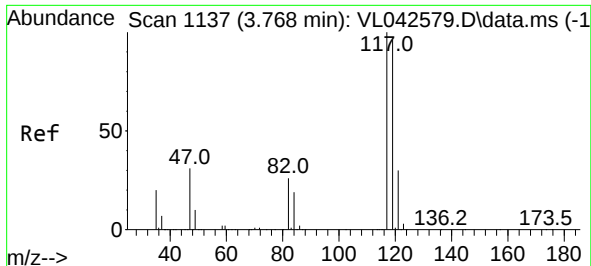
Tgt Ion: 43 Resp: 2570

Ion Ratio Lower Upper

43 100

72 24.2 17.7 26.5

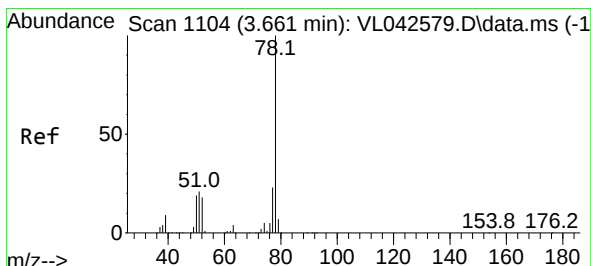
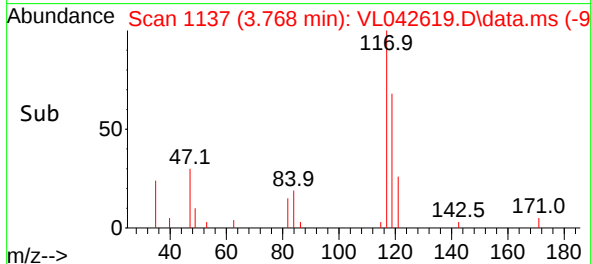
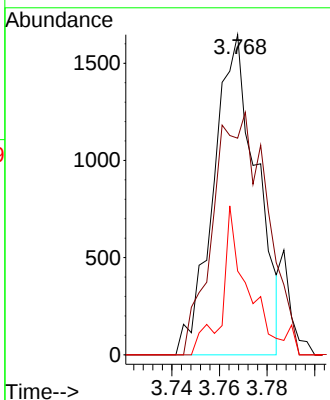
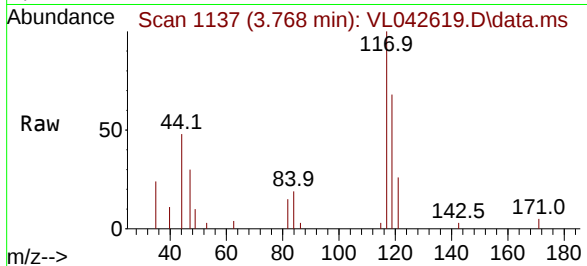




#35
Carbon Tetrachloride
Concen: 0.119 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

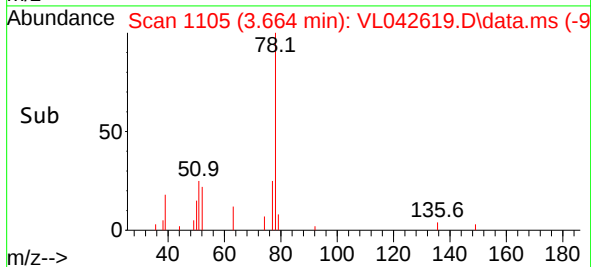
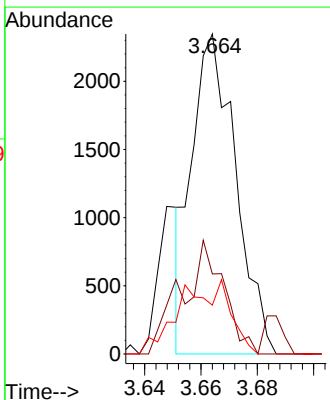
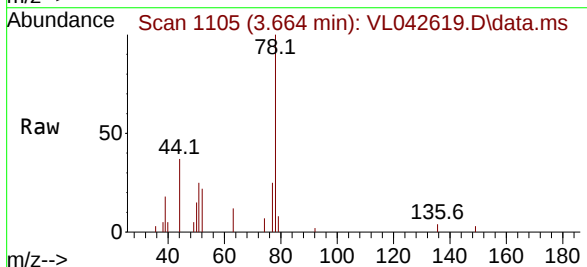
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

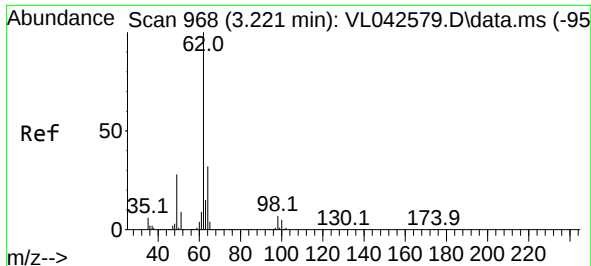
Tgt Ion:117 Resp: 2072
Ion Ratio Lower Upper
117 100
119 67.6 76.8 115.2#
121 26.2 24.3 36.5



#36
Benzene
Concen: 0.098 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 78 Resp: 2534
Ion Ratio Lower Upper
78 100
77 13.1 18.2 27.2#
50 12.0 15.2 22.8#

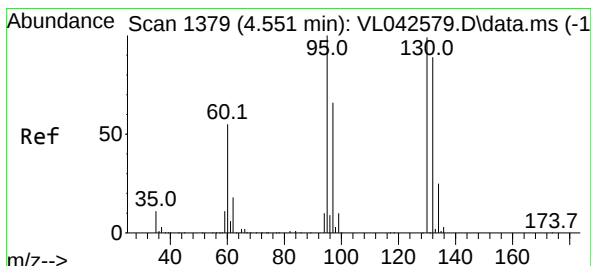
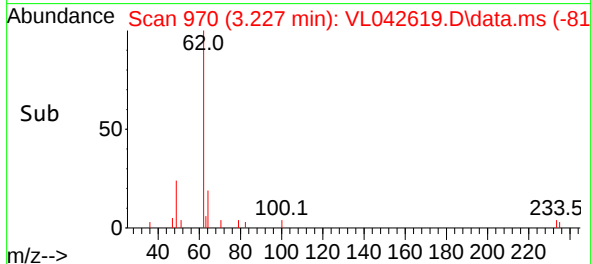
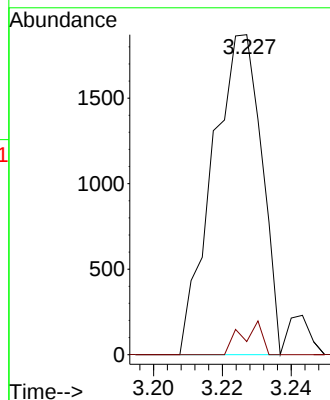
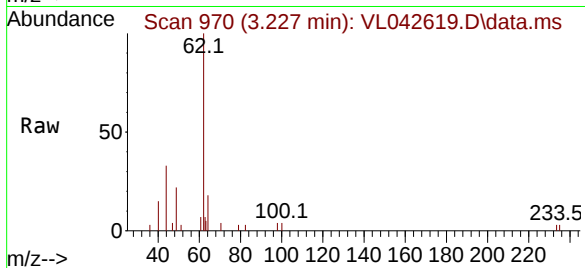




#37
1,2-Dichloroethane
Concen: 0.144 ppbv
RT: 3.227 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

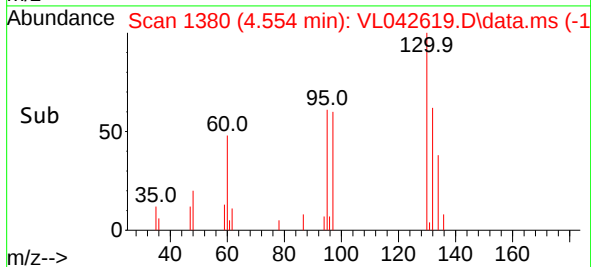
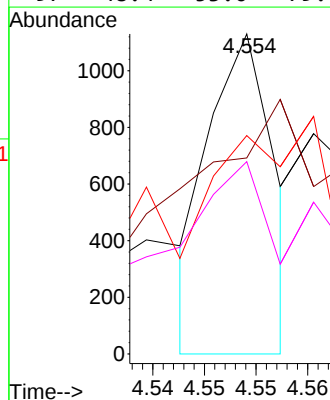
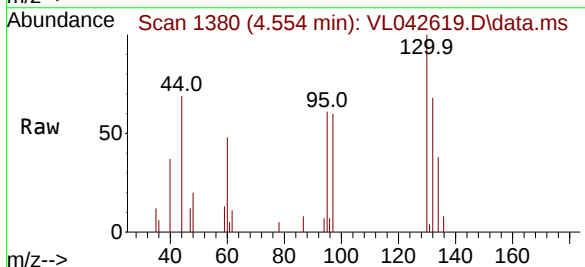
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

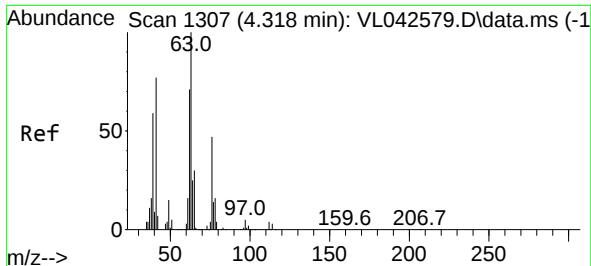
Tgt Ion: 62 Resp: 1859
Ion Ratio Lower Upper
62 100
98 4.4 6.1 9.1#



#38
Trichloroethene
Concen: 0.045 ppbv
RT: 4.554 min Scan# 1380
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion:130 Resp: 500
Ion Ratio Lower Upper
130 100
95 14.6 80.6 121.0#
132 58.0 71.8 107.6#
97 48.4 53.0 79.4#





#39

1,2-Dichloropropane

Concen: 6.835 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.353 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025

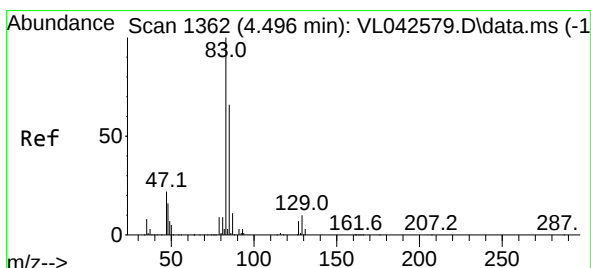
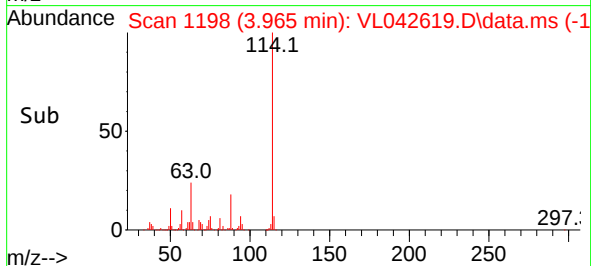
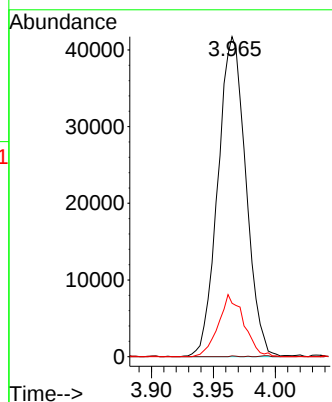
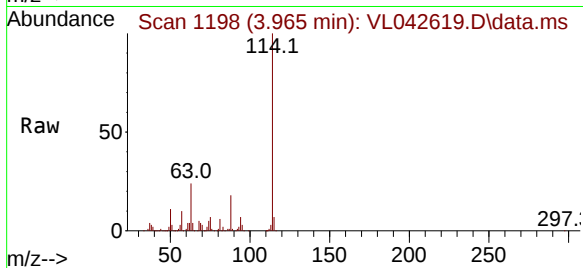
Tgt Ion: 63 Resp: 65626

Ion Ratio Lower Upper

63 100

41 0.3 61.8 92.6#

62 16.7 56.6 85.0#



#42

Bromodichloromethane

Concen: 0.079 ppbv

RT: 4.502 min Scan# 1364

Delta R.T. 0.006 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

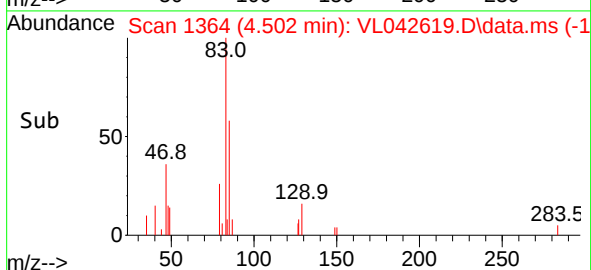
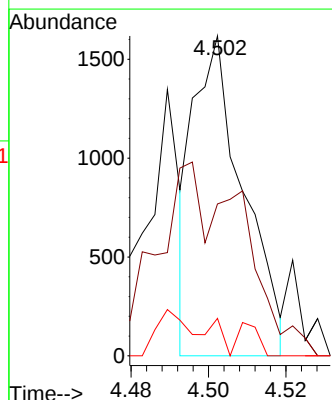
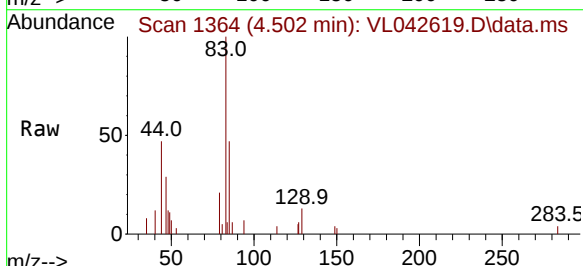
Tgt Ion: 83 Resp: 1456

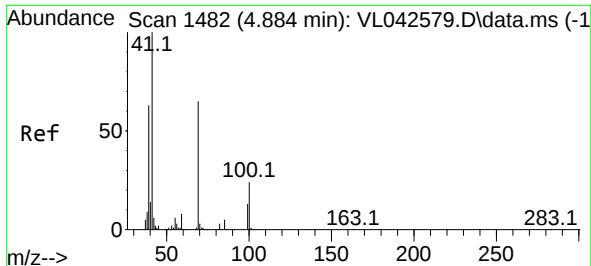
Ion Ratio Lower Upper

83 100

85 43.2 52.7 79.1#

127 12.4 5.8 8.6#





#43

Methyl Methacrylate

Concen: 0.038 ppbv

RT: 4.891 min Scan# 1484

Delta R.T. 0.006 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025

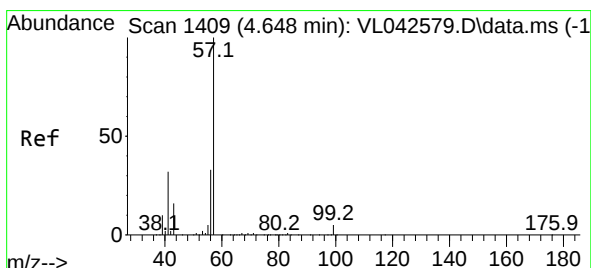
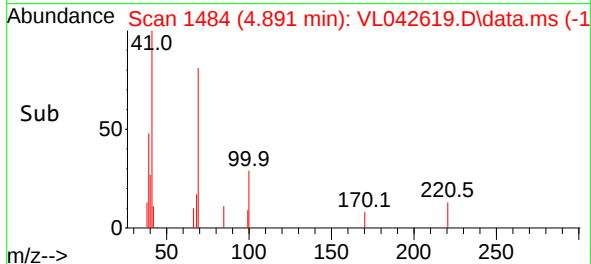
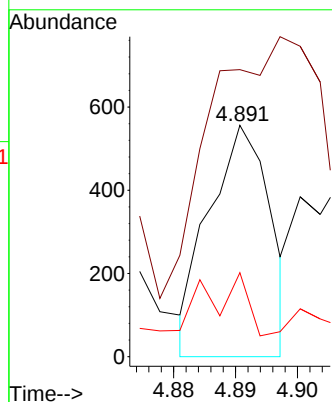
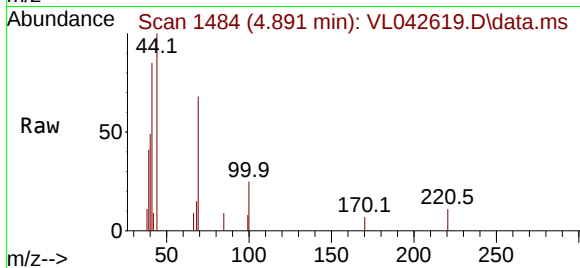
Tgt Ion: 69 Resp: 384

Ion Ratio Lower Upper

69 100

41 389.6 124.6 187.0#

100 54.4 29.9 44.9#



#44

2,2,4-Trimethylpentane

Concen: 0.071 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. -0.003 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

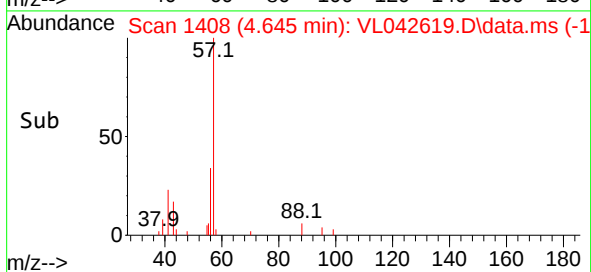
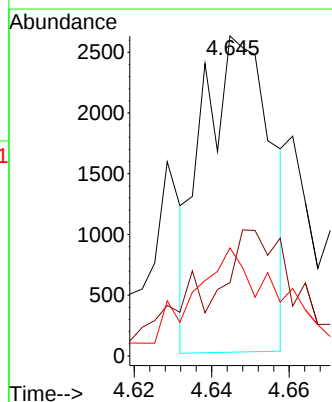
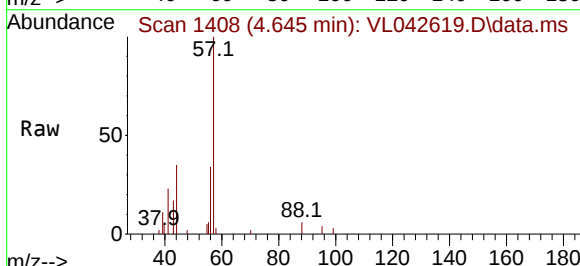
Tgt Ion: 57 Resp: 3162

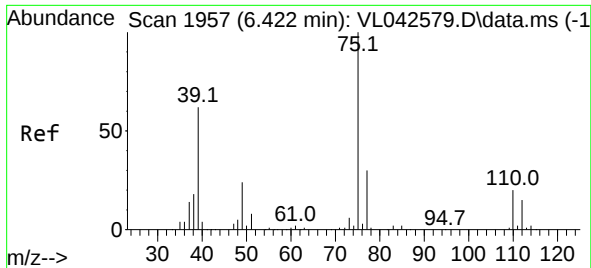
Ion Ratio Lower Upper

57 100

41 60.9 26.1 39.1#

56 52.2 25.9 38.9#

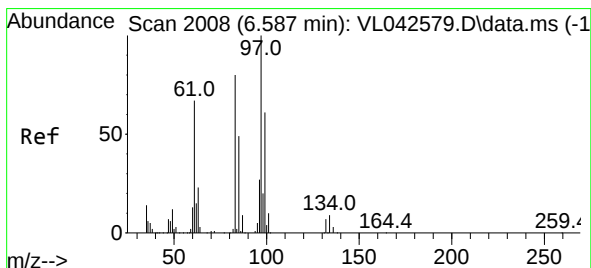
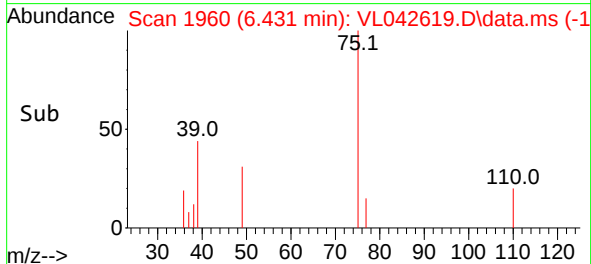
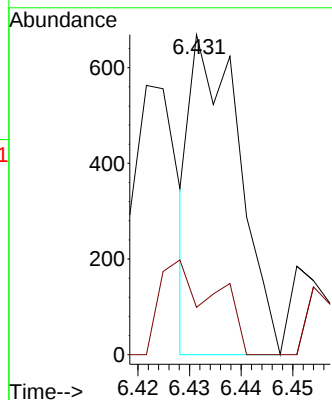
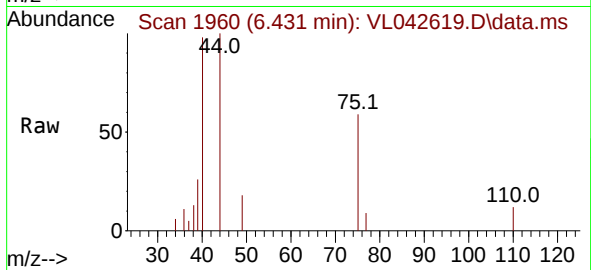




#45
t-1,3-Dichloropropene
Concen: 0.038 ppbv
RT: 6.431 min Scan# 1957
Delta R.T. 0.010 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

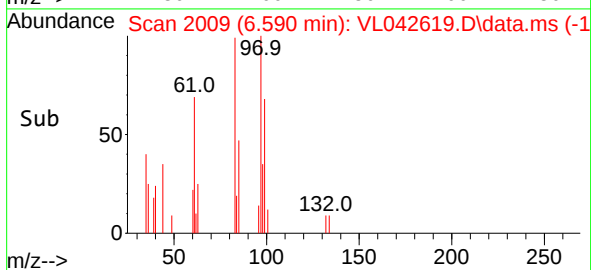
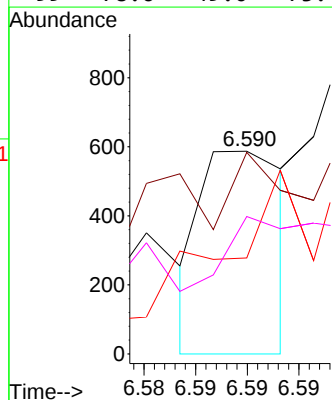
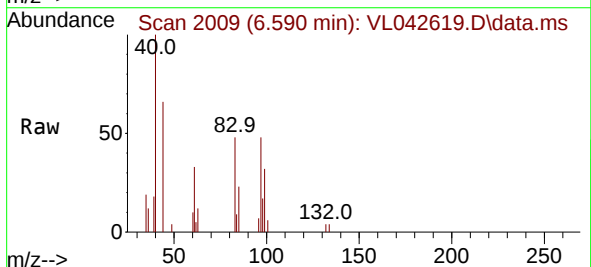
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

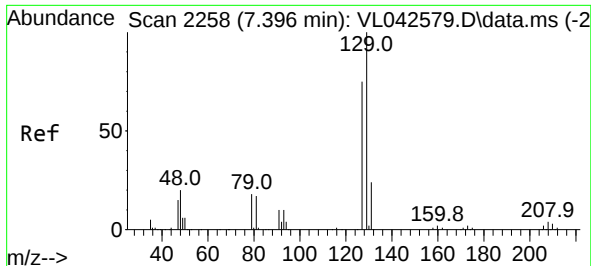
Tgt Ion: 75 Resp: 438
Ion Ratio Lower Upper
75 100
77 14.8 24.2 36.2#



#47
1,1,2-Trichloroethane
Concen: 0.033 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 97 Resp: 332
Ion Ratio Lower Upper
97 100
83 39.9 63.9 95.9#
85 0.0 39.2 58.8#
99 78.6 49.0 73.4#

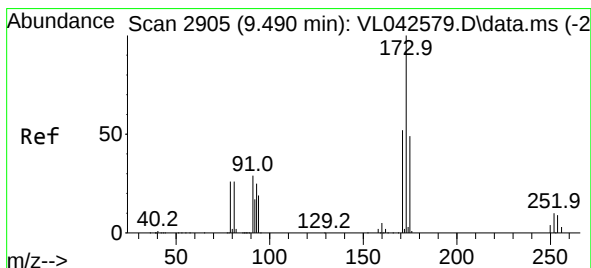
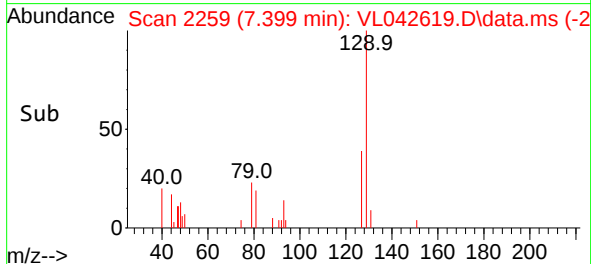
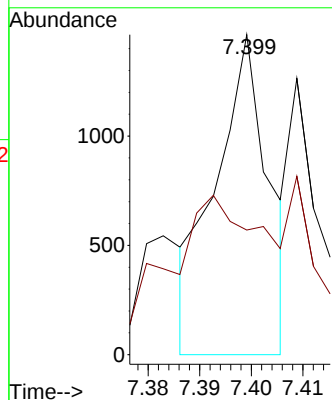
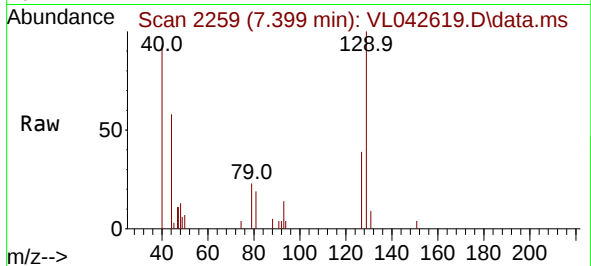




#48
Dibromochloromethane
Concen: 0.065 ppbv
RT: 7.399 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

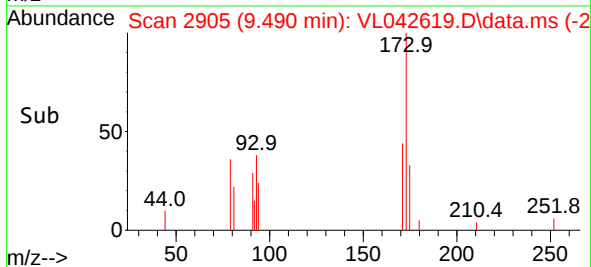
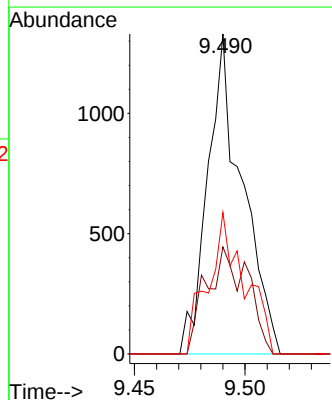
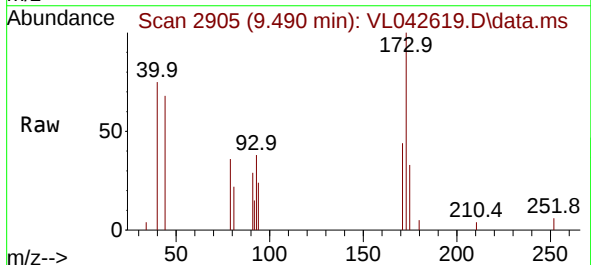
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

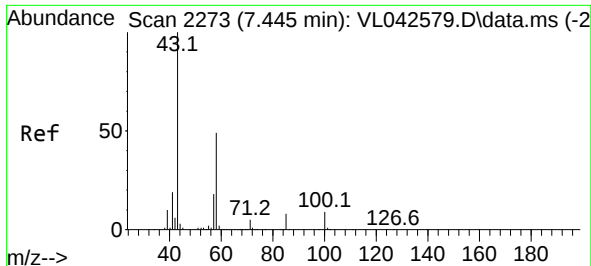
Tgt Ion:129 Resp: 1042
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#



#49
Bromoform
Concen: 0.106 ppbv
RT: 9.490 min Scan# 2905
Delta R.T. -0.000 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion:173 Resp: 1449
Ion Ratio Lower Upper
173 100
175 39.8 38.7 58.1
171 46.3 41.2 61.8

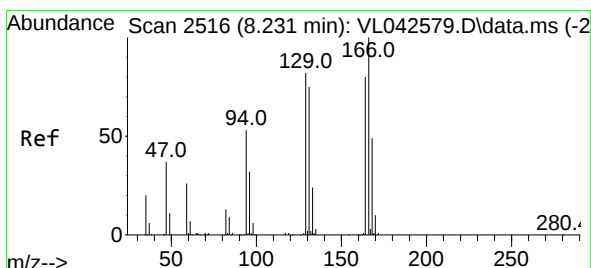
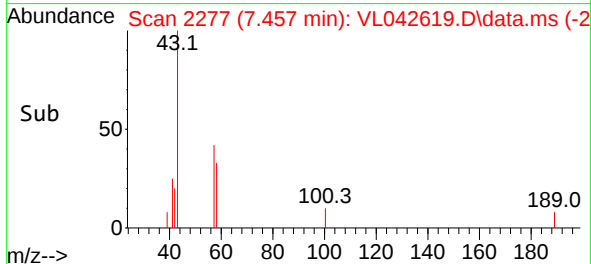
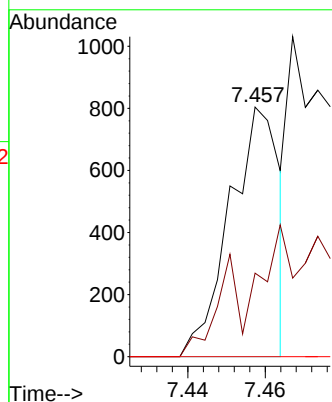
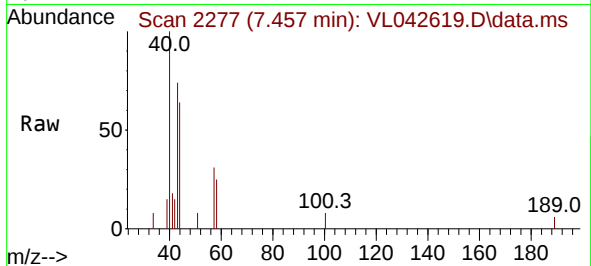




#51
2-Hexanone
Concen: 0.034 ppbv
RT: 7.457 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

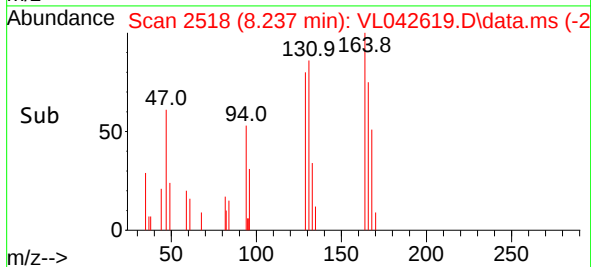
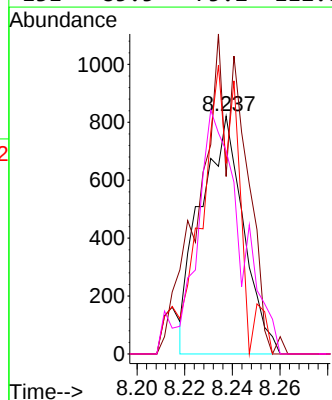
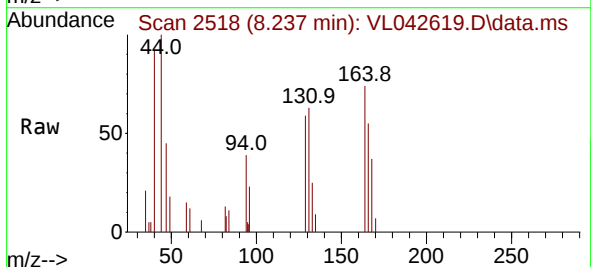
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

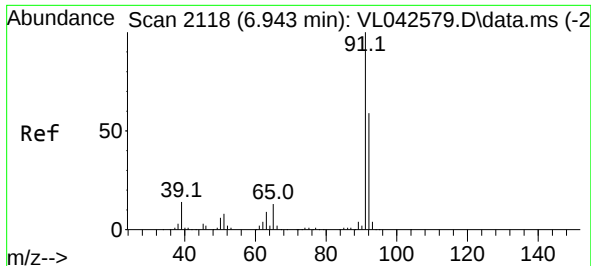
Tgt Ion: 43 Resp: 713
Ion Ratio Lower Upper
43 100
58 0.0 39.9 59.9#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.106 ppbv
RT: 8.237 min Scan# 2518
Delta R.T. 0.006 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 164 Resp: 1032
Ion Ratio Lower Upper
164 100
166 67.4 100.0 150.0#
129 80.1 82.2 123.4#
131 85.5 75.2 112.8

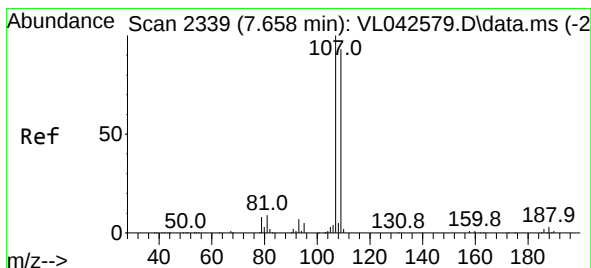
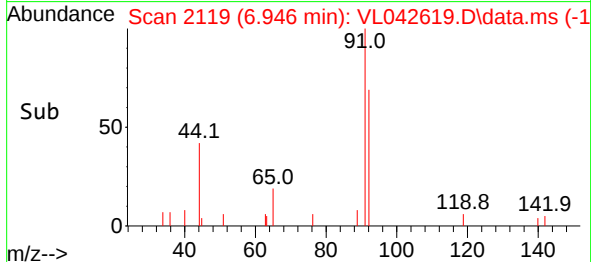
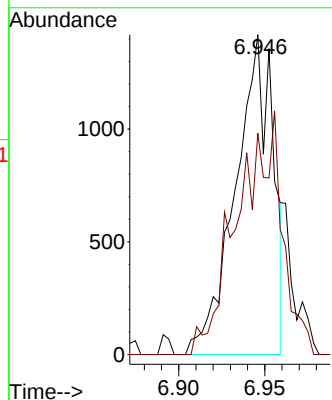
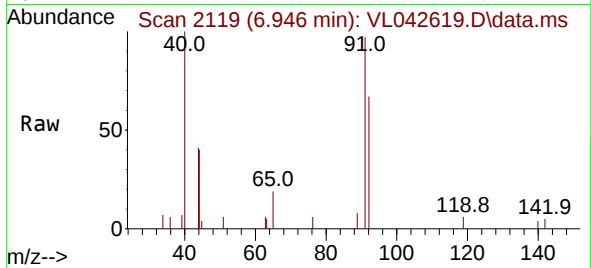




#53
Toluene
Concen: 0.072 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

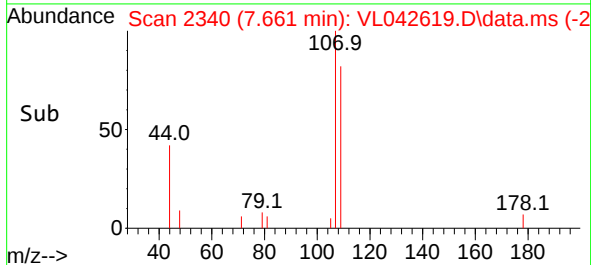
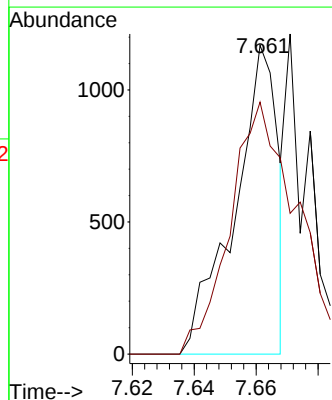
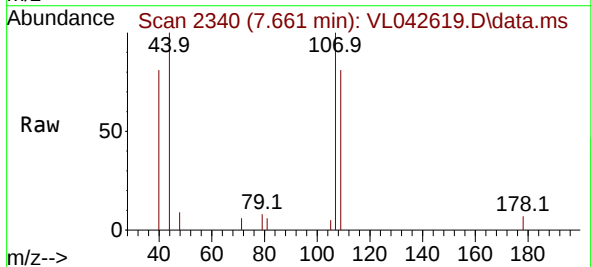
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

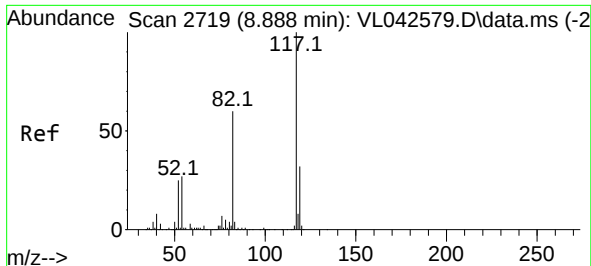
Tgt Ion: 91 Resp: 2152
Ion Ratio Lower Upper
91 100
92 89.2 48.2 72.4#



#54
1,2-Dibromoethane
Concen: 0.077 ppbv
RT: 7.661 min Scan# 2340
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 107 Resp: 1140
Ion Ratio Lower Upper
107 100
109 81.6 74.3 111.5

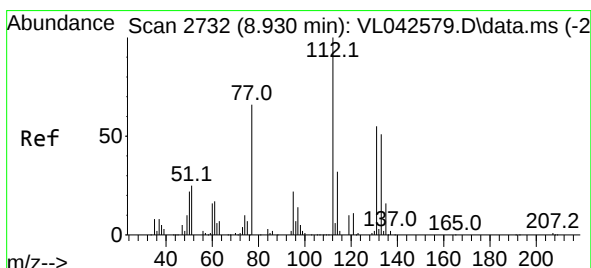
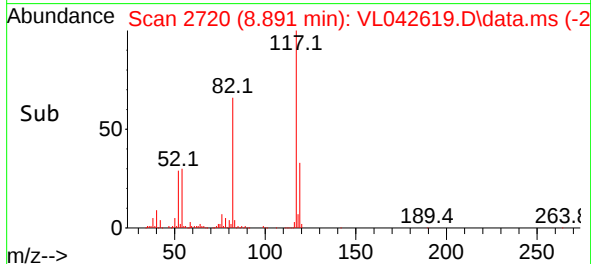
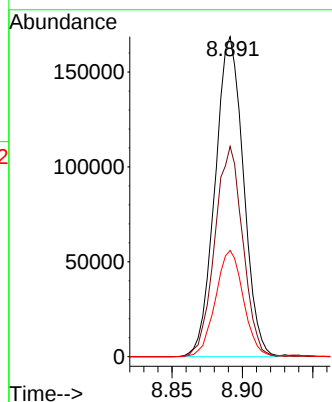
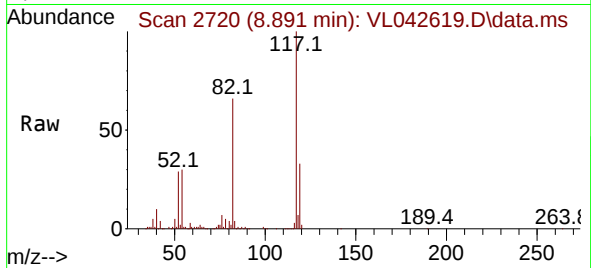




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

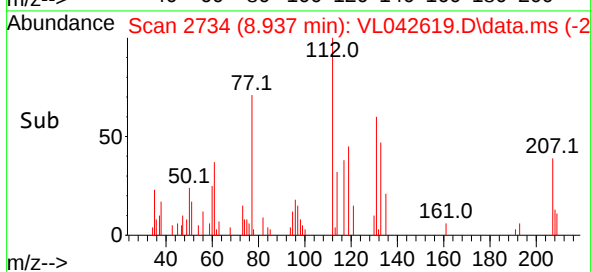
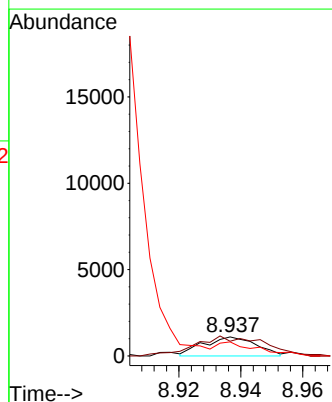
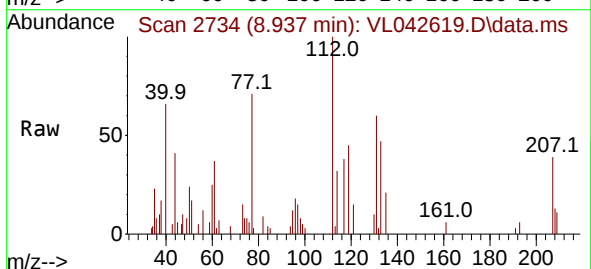
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

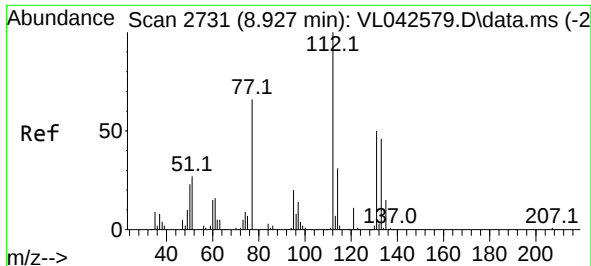
Tgt Ion:117 Resp: 236658
Ion Ratio Lower Upper
117 100
82 65.0 51.2 76.8
119 33.0 26.3 39.5



#56
1,1,1,2-Tetrachloroethane
Concen: 0.109 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.006 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion:131 Resp: 1293
Ion Ratio Lower Upper
131 100
133 139.8 75.0 112.6#
119 0.0 50.8 76.2#

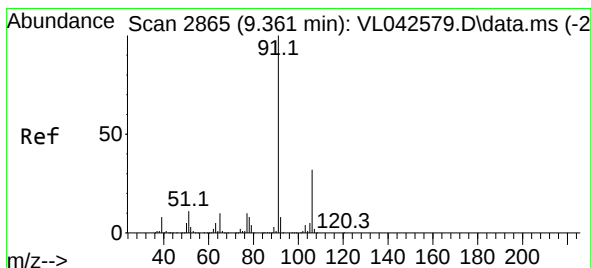
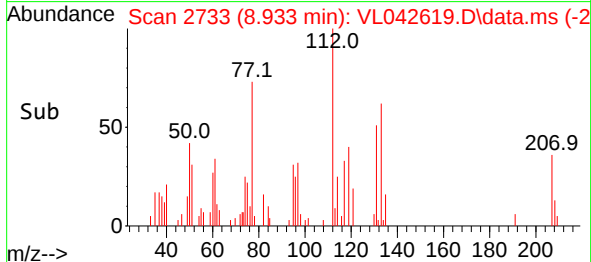
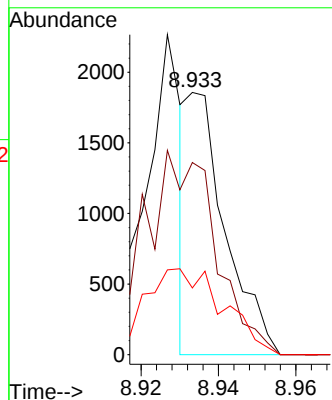
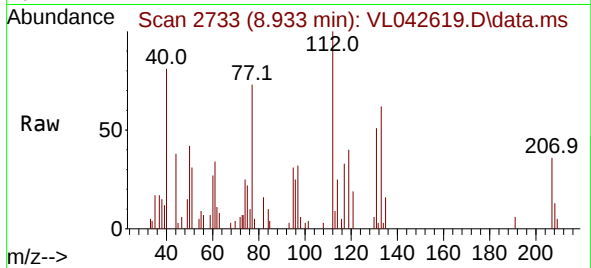




#57
Chlorobenzene
Concen: 0.055 ppbv
RT: 8.933 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

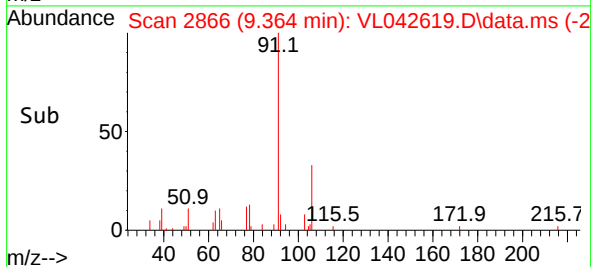
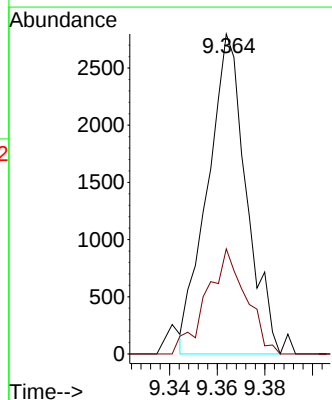
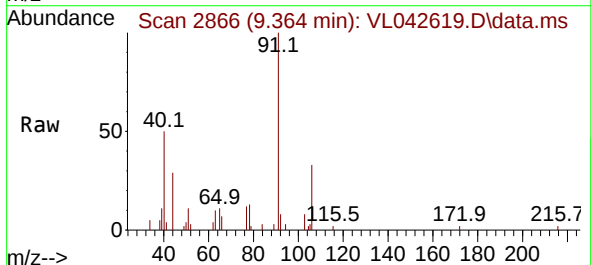
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

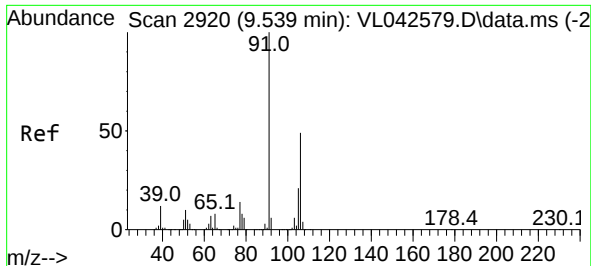
Tgt Ion:112 Resp: 1263
Ion Ratio Lower Upper
112 100
77 73.3 53.5 80.3
114 25.4 27.8 34.0#



#58
Ethyl Benzene
Concen: 0.079 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 91 Resp: 3155
Ion Ratio Lower Upper
91 100
106 32.8 25.9 38.9





#59

m/p-Xylene

Concen: 0.052 ppbv

RT: 9.542 min Scan# 2920

Delta R.T. 0.003 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

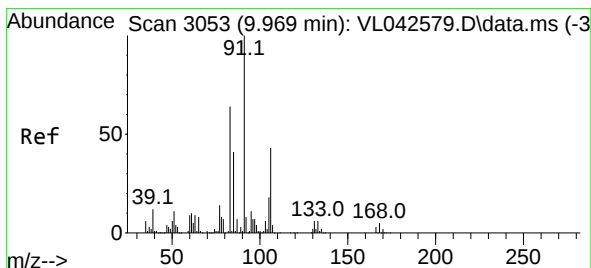
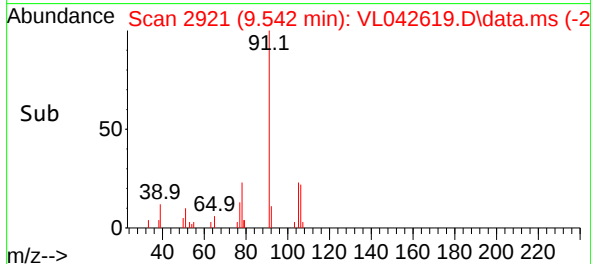
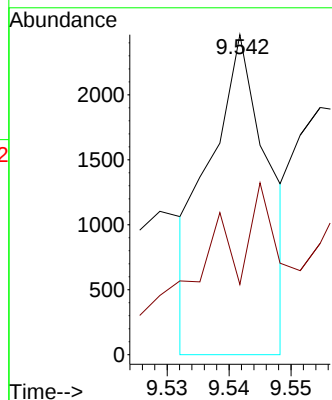
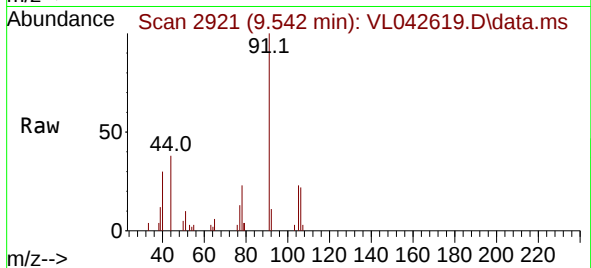
MDL-AIR-03-QT2-2025

Tgt Ion: 91 Resp: 1628

Ion Ratio Lower Upper

91 100

106 142.9 38.8 58.2#



#60

o-Xylene

Concen: 0.074 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL042619.D

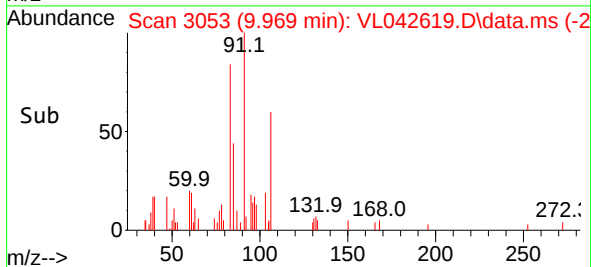
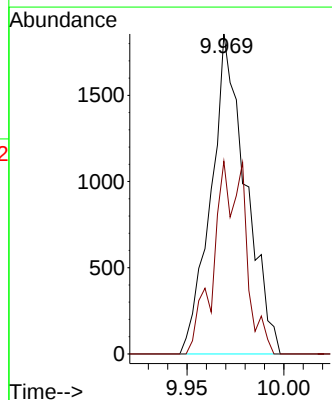
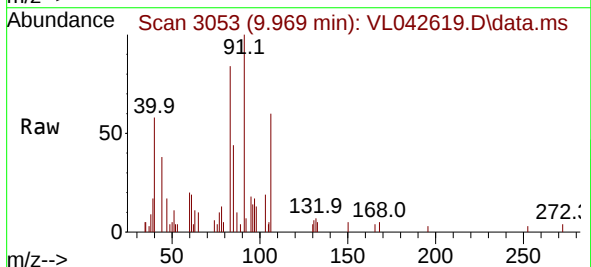
Acq: 05 Jun 2025 13:11

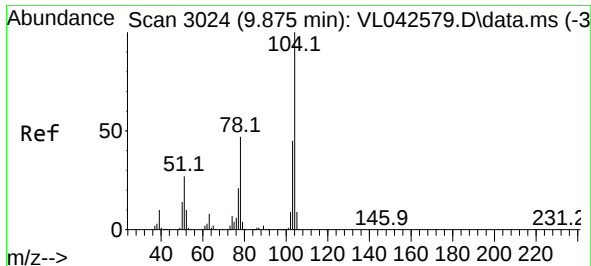
Tgt Ion: 91 Resp: 2317

Ion Ratio Lower Upper

91 100

106 55.0 22.9 68.5

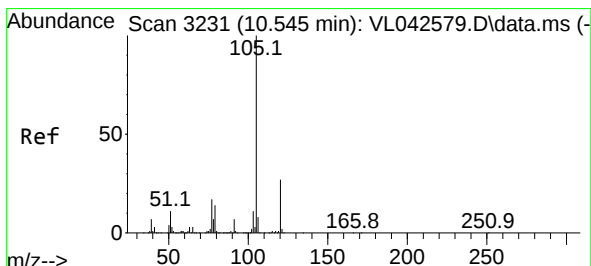
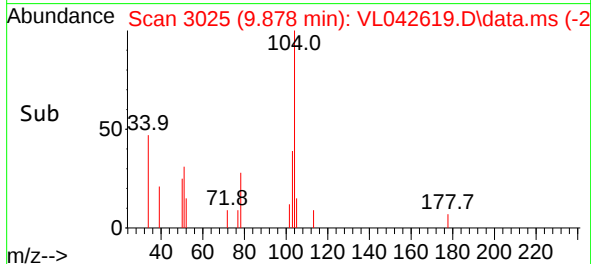
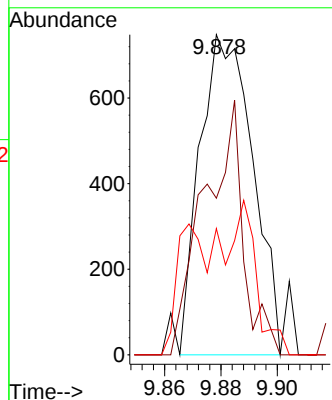
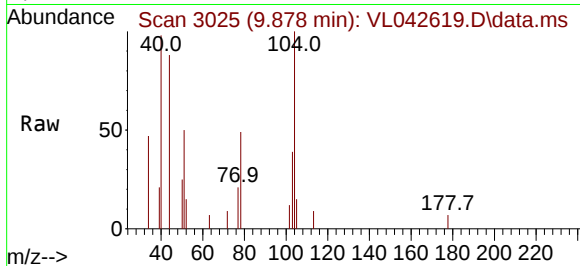




#61
Styrene
Concen: 0.066 ppbv
RT: 9.878 min Scan# 3024
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

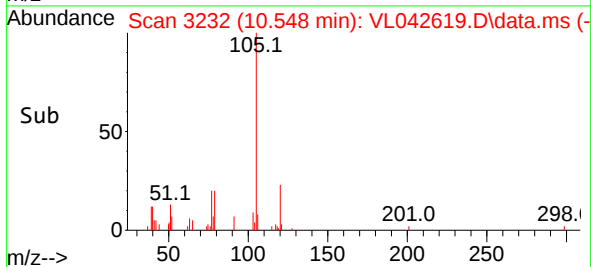
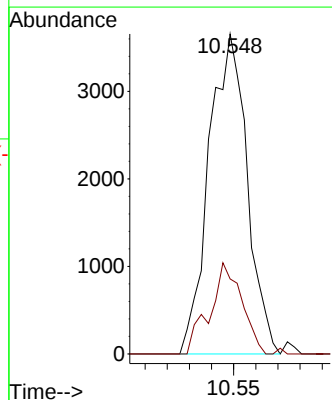
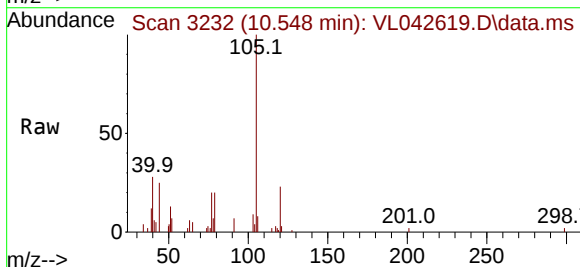
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

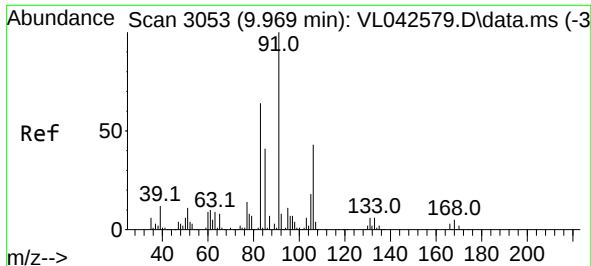
Tgt Ion:104 Resp: 976
Ion Ratio Lower Upper
104 100
78 58.5 38.2 57.4#
103 53.2 36.7 55.1



#62
Isopropylbenzene
Concen: 0.094 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion:105 Resp: 4374
Ion Ratio Lower Upper
105 100
120 24.2 20.9 31.3

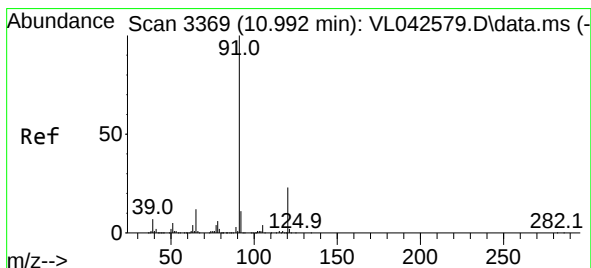
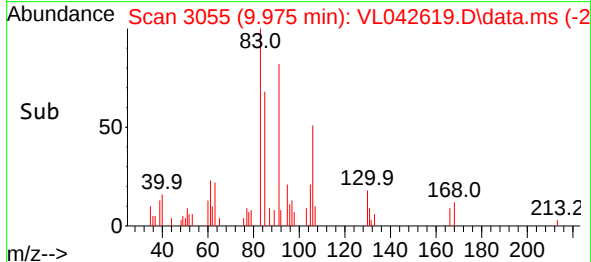
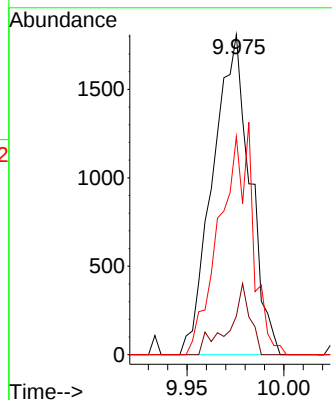
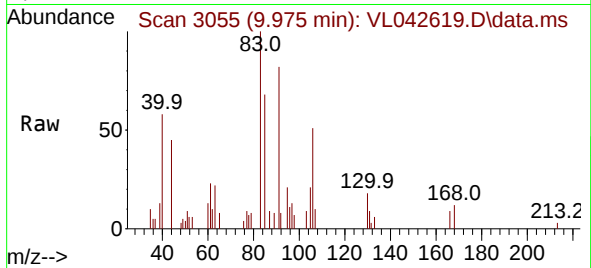




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.121 ppbv
 RT: 9.975 min Scan# 3053
 Delta R.T. 0.006 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

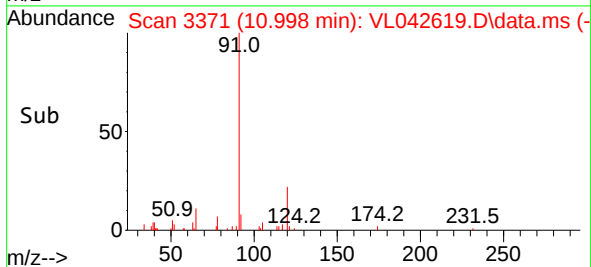
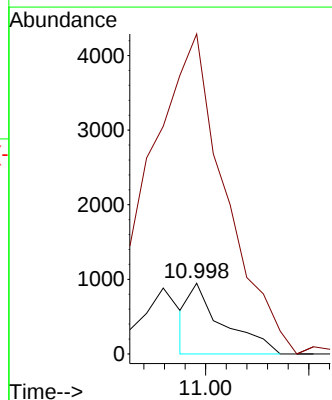
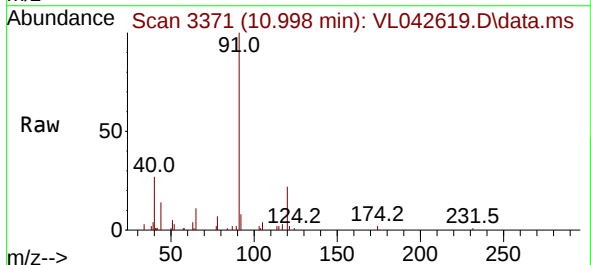
Instrument : MSVOA_L
 ClientSampleId : MDL-AIR-03-QT2-2025

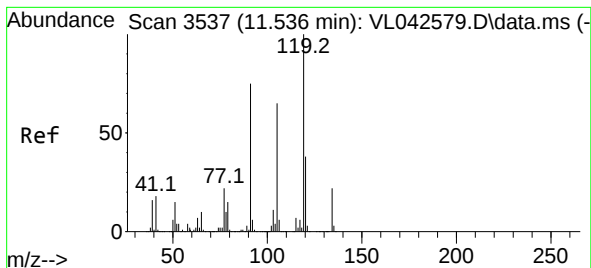
Tgt Ion: 83 Resp: 2418
 Ion Ratio Lower Upper
 83 100
 131 12.5 4.8 14.4
 85 63.5 32.5 97.4



#64
 n-propylbenzene
 Concen: 0.035 ppbv
 RT: 10.998 min Scan# 3371
 Delta R.T. 0.006 min
 Lab File: VL042619.D
 Acq: 05 Jun 2025 13:11

Tgt Ion: 120 Resp: 432
 Ion Ratio Lower Upper
 120 100
 91 1033.6 363.0 544.6#





#65

tert-Butylbenzene

Concen: 0.075 ppbv

RT: 11.536 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025

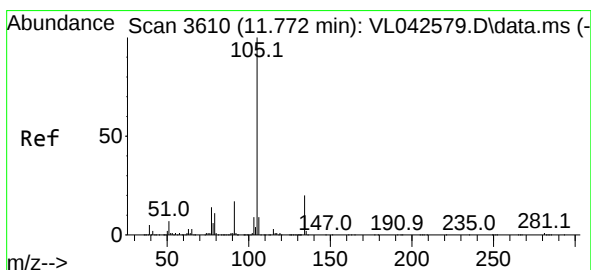
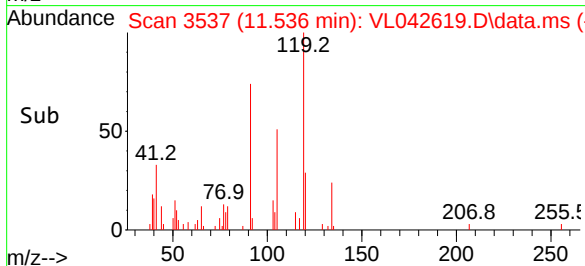
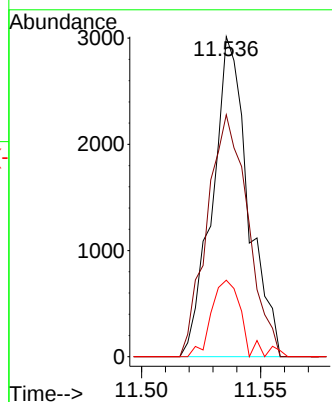
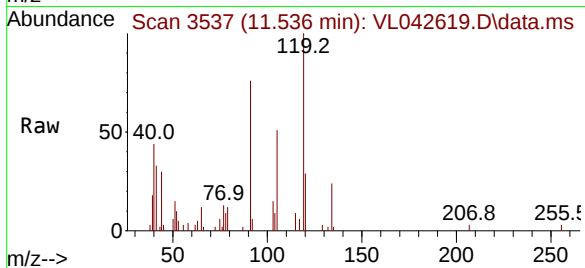
Tgt Ion:119 Resp: 3148

Ion Ratio Lower Upper

119 100

91 86.2 61.1 91.7

134 20.5 17.4 26.2



#67

sec-Butylbenzene

Concen: 0.073 ppbv

RT: 11.775 min Scan# 3611

Delta R.T. 0.003 min

Lab File: VL042619.D

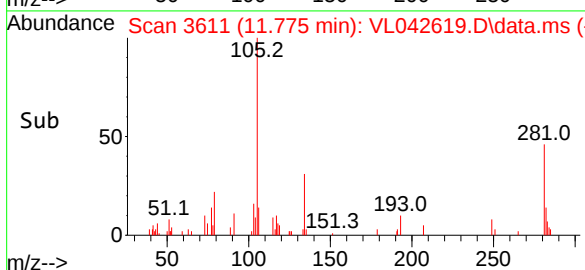
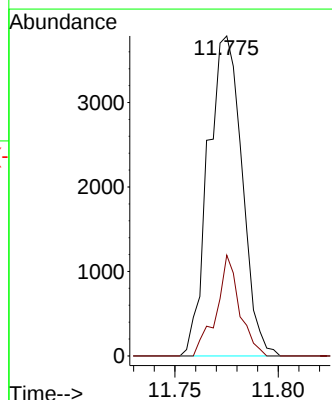
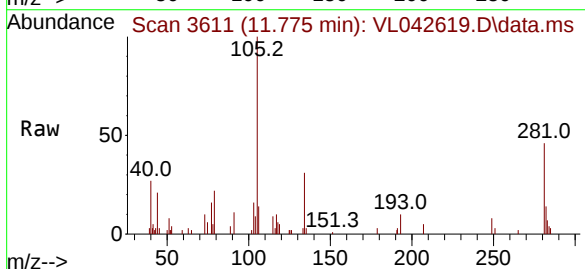
Acq: 05 Jun 2025 13:11

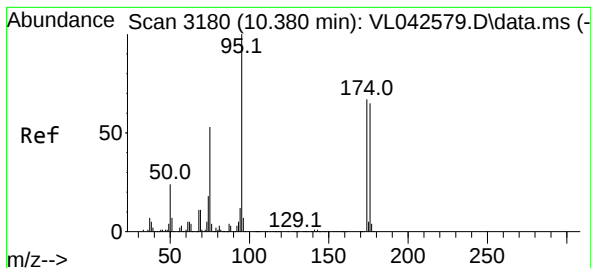
Tgt Ion:105 Resp: 4329

Ion Ratio Lower Upper

105 100

134 21.4 15.8 23.6

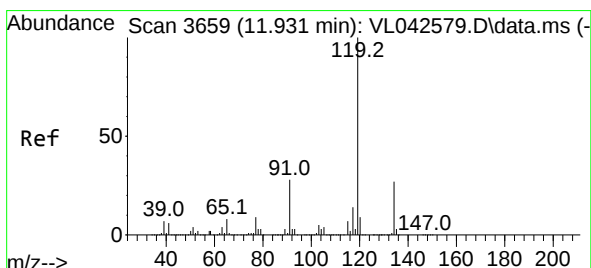
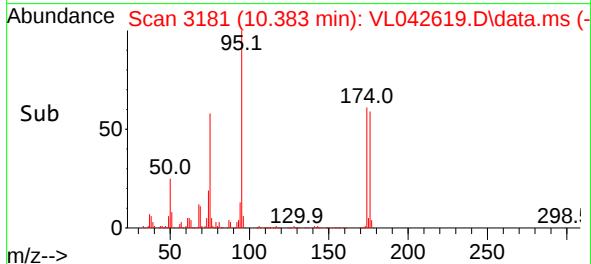
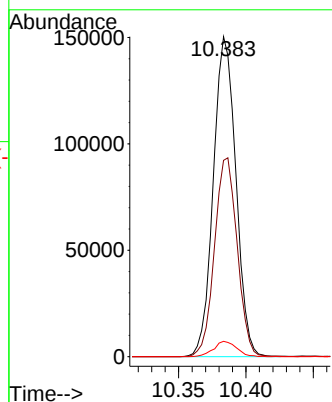
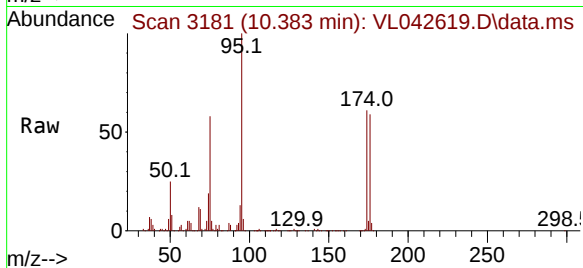




#68
1-Bromo-4-Fluorobenzene
Concen: 9.882 ppbv
RT: 10.383 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

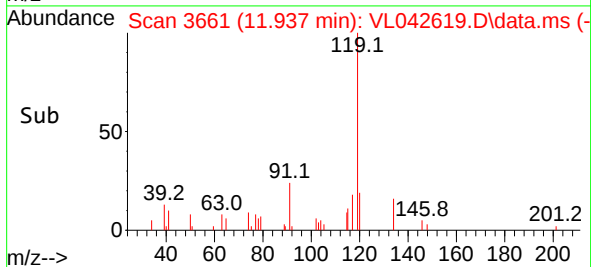
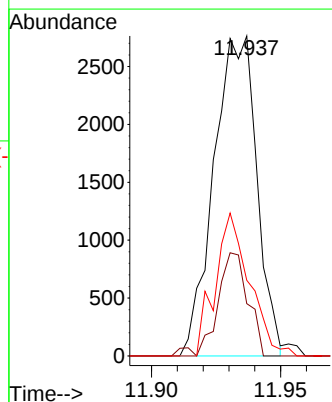
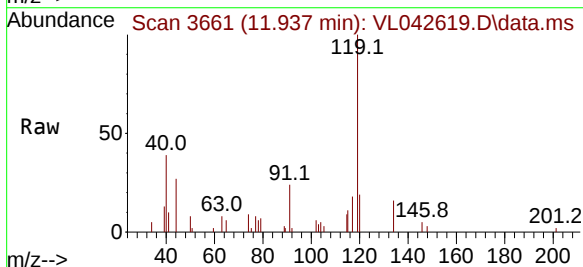
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

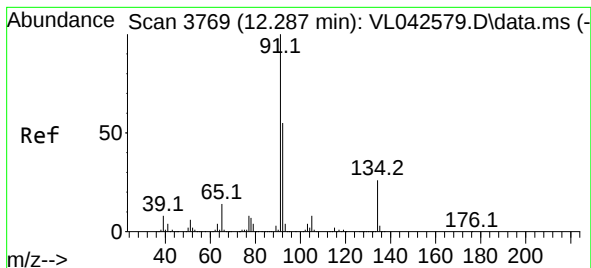
Tgt Ion: 95 Resp: 175310
Ion Ratio Lower Upper
95 100
174 62.5 53.1 79.7
175 4.9 4.2 6.2



#69
p-Isopropyltoluene
Concen: 0.064 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. 0.006 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion: 119 Resp: 3198
Ion Ratio Lower Upper
119 100
134 23.0 21.1 31.7
91 35.7 21.9 32.9#





#70

n-Butylbenzene

Concen: 0.058 ppbv

RT: 12.286 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025

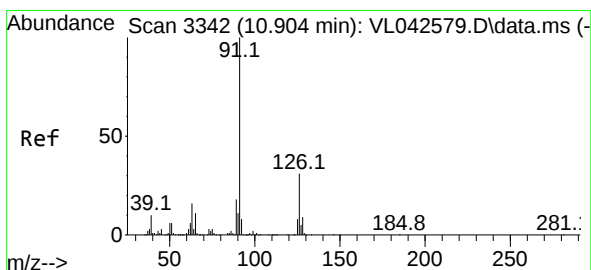
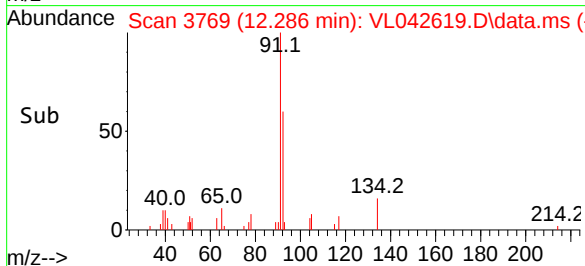
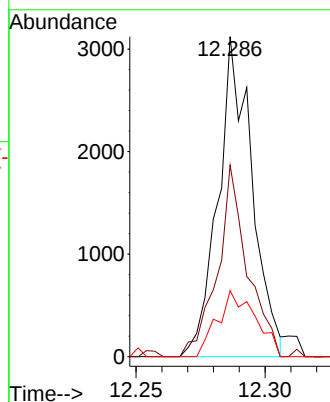
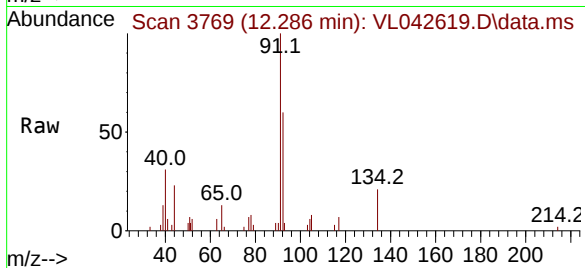
Tgt Ion: 91 Resp: 2843

Ion Ratio Lower Upper

91 100

92 54.3 44.4 66.6

134 23.1 20.1 30.1



#71

2-Chlorotoluene

Concen: 0.094 ppbv

RT: 10.911 min Scan# 3344

Delta R.T. 0.006 min

Lab File: VL042619.D

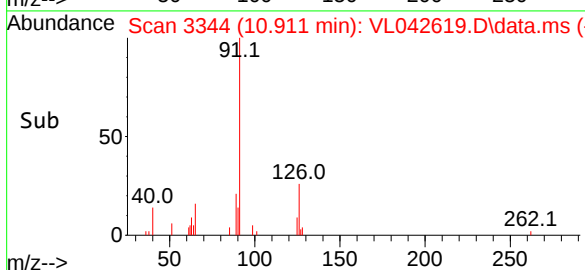
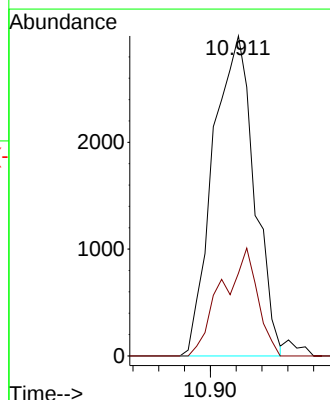
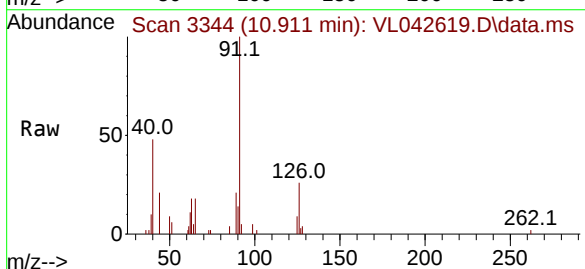
Acq: 05 Jun 2025 13:11

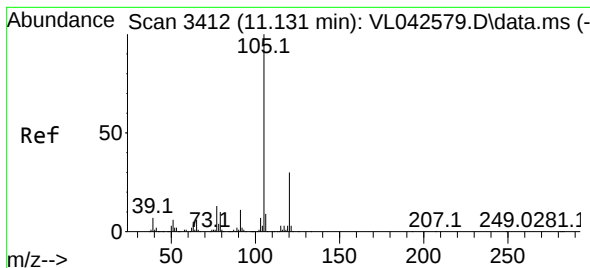
Tgt Ion: 91 Resp: 3343

Ion Ratio Lower Upper

91 100

126 29.5 12.6 50.4





#72

4-Ethyltoluene

Concen: 0.058 ppbv

RT: 11.131 min Scan# 3412

Delta R.T. -0.000 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025

Tgt Ion:105 Resp: 2270

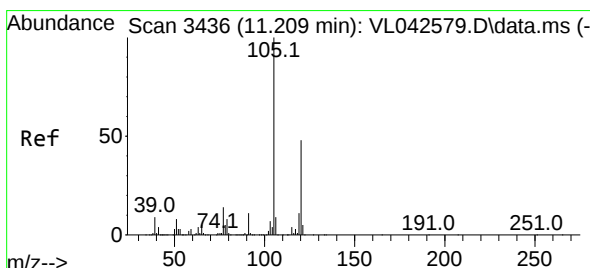
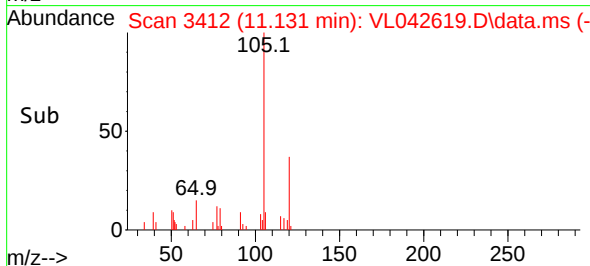
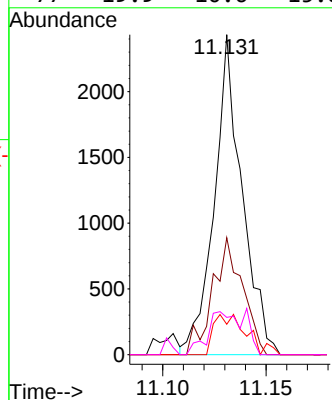
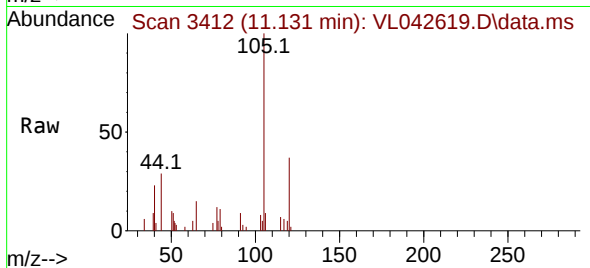
Ion Ratio Lower Upper

105 100

120 39.4 24.6 36.8#

91 14.8 9.6 14.4#

77 19.9 10.6 15.8#



#73

1,3,5-Trimethylbenzene

Concen: 0.071 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. -0.000 min

Lab File: VL042619.D

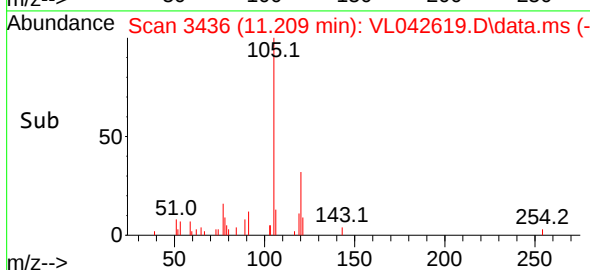
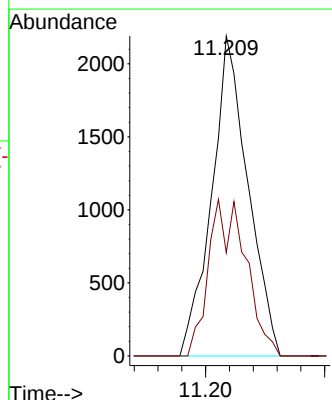
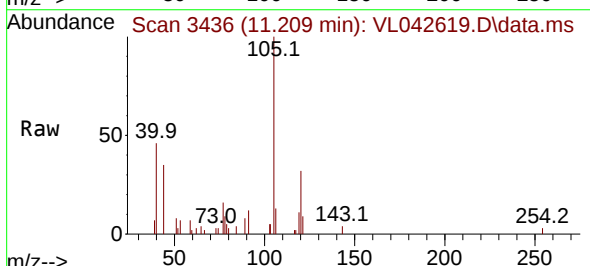
Acq: 05 Jun 2025 13:11

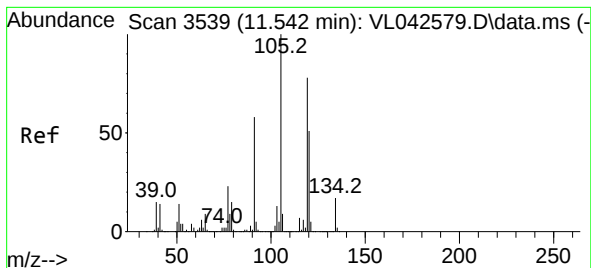
Tgt Ion:105 Resp: 2317

Ion Ratio Lower Upper

105 100

120 32.3 38.8 58.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.069 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025

Tgt Ion:105 Resp: 2472

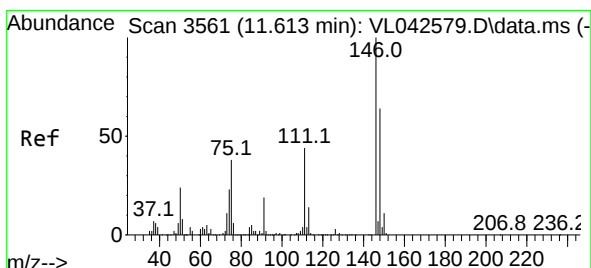
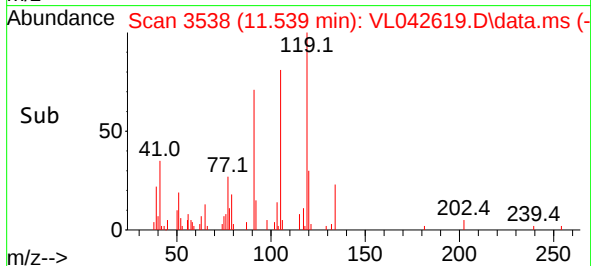
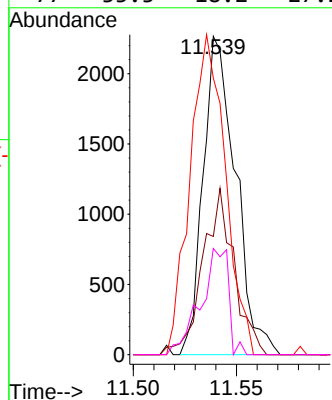
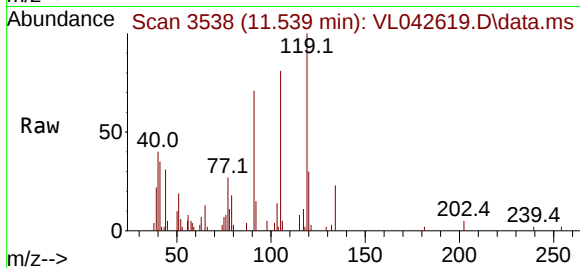
Ion Ratio Lower Upper

105 100

120 37.1 40.8 61.2#

91 86.9 46.8 70.2#

77 33.3 18.2 27.2#



#75

1,3-Dichlorobenzene

Concen: 0.083 ppbv

RT: 11.616 min Scan# 3562

Delta R.T. 0.003 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

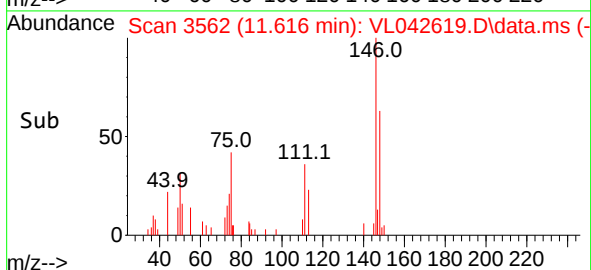
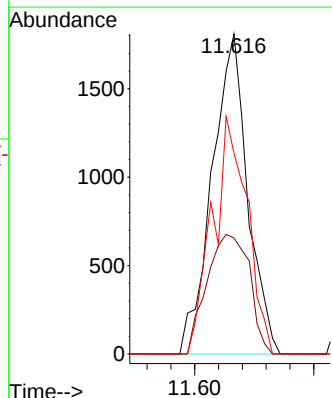
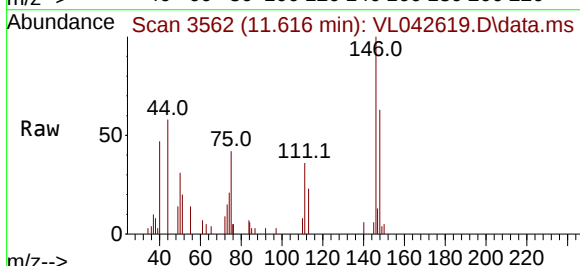
Tgt Ion:146 Resp: 1878

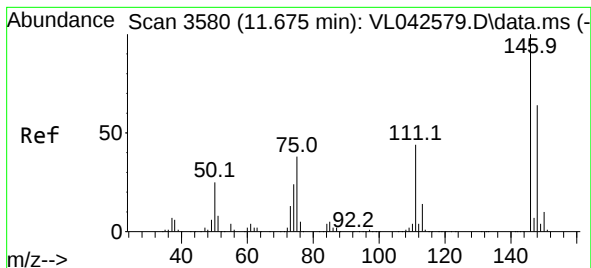
Ion Ratio Lower Upper

146 100

111 44.7 22.4 67.3

148 72.2 32.0 96.2





#76

1,4-Dichlorobenzene

Concen: 0.090 ppbv

RT: 11.678 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025

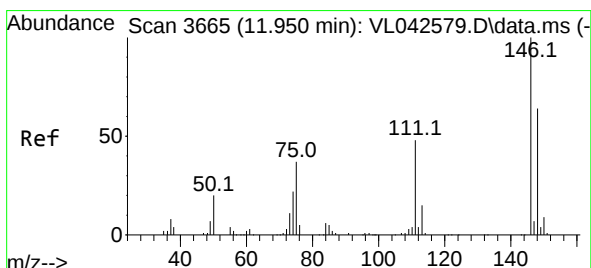
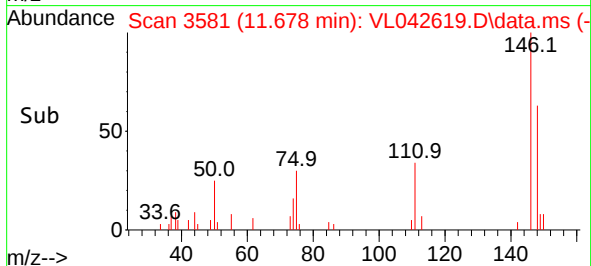
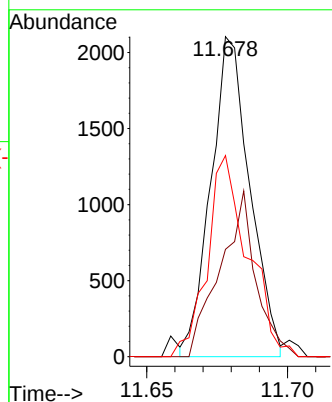
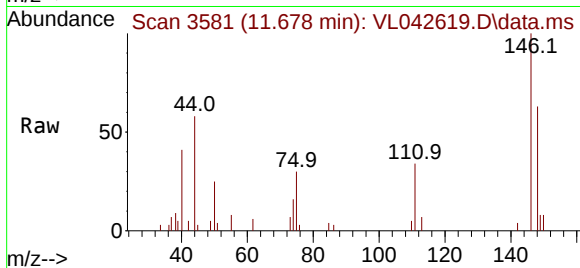
Tgt Ion:146 Resp: 2032

Ion Ratio Lower Upper

146 100

111 47.4 21.6 64.8

148 65.4 32.1 96.5



#77

1,2-Dichlorobenzene

Concen: 0.086 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.003 min

Lab File: VL042619.D

Acq: 05 Jun 2025 13:11

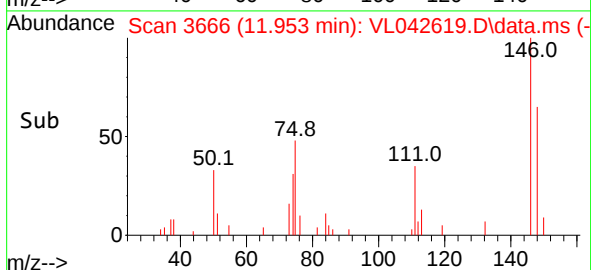
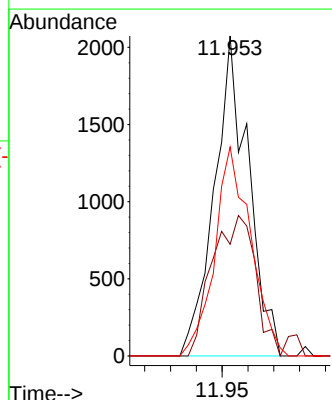
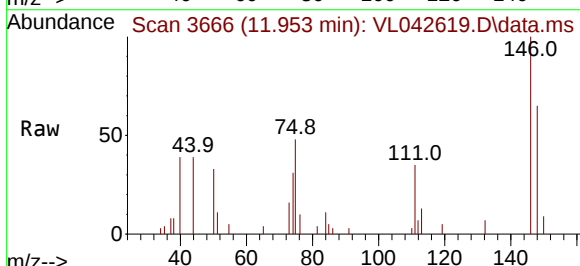
Tgt Ion:146 Resp: 1900

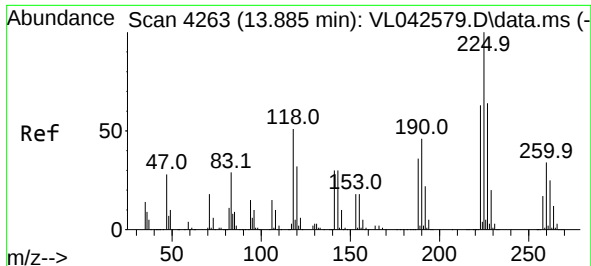
Ion Ratio Lower Upper

146 100

111 58.6 23.1 69.3

148 69.0 32.1 96.3

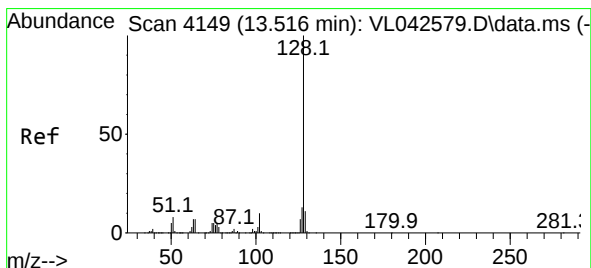
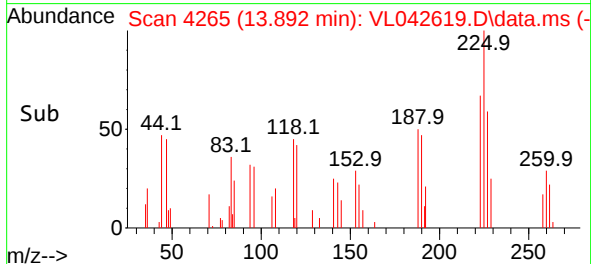
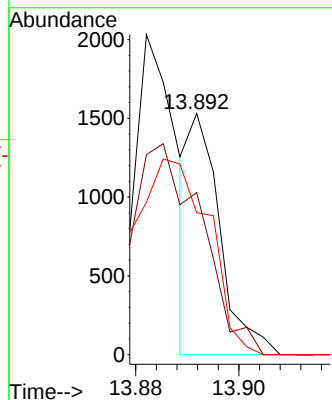
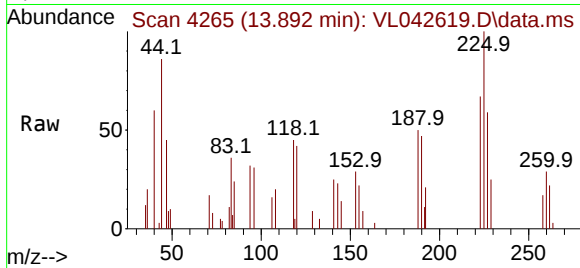




#78
Hexachloro-1,3-Butadiene
Concen: 0.035 ppbv
RT: 13.892 min Scan# 4150
Delta R.T. 0.006 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

Tgt Ion:225 Resp: 633
Ion Ratio Lower Upper
225 100
223 0.0 50.2 75.4#
227 0.0 51.1 76.7#



#79
Naphthalene
Concen: 0.033 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.003 min
Lab File: VL042619.D
Acq: 05 Jun 2025 13:11

Tgt Ion:128 Resp: 1125
Ion Ratio Lower Upper
128 100
127 5.9 10.2 15.4#
129 19.3 8.8 13.2#

