

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042704.D
 Acq On : 03 Jul 2025 12:43
 Operator : SY/MD
 Sample : Q2126-14 0.1 PPB LOQ
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2025

Quant Time: Jul 04 03:55:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Thu Jul 03 01:50:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	114186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	261496	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	227621	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 172840 9.872 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.700%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1591	0.133	ppbv	89
3) Chlorodifluoromethane	1.479	51	2092	0.117	ppbv #	92
4) Chloromethane	1.538	50	732	0.156	ppbv	90
5) Vinyl Chloride	1.583	62	533	0.113	ppbv	97
6) Bromomethane	1.667	94	277	0.132	ppbv	82
7) Chloroethane	1.709	64	196	0.108	ppbv #	88
8) Dichlorotetrafluoroethane	1.557	85	1337	0.135	ppbv #	81
9) Propene	1.606	41	349	0.052	ppbv	95
11) Trichlorofluoromethane	1.881	101	1597	0.127	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	1173	0.118	ppbv	96
13) Ethanol	1.891	45	1236	1.915	ppbv #	37
14) Bromoethene	1.784	108	443	0.127	ppbv #	92
15) Acetone	1.842	43	2472	0.218	ppbv	91
16) 1,3-Butadiene	1.612	39	830	0.159	ppbv	89
17) tert-Butyl alcohol	2.049	59	1580	0.143	ppbv #	91
18) 1,1-Dichloroethene	2.039	96	530	0.120	ppbv #	64
19) Isopropyl Alcohol	1.891	45	1236	0.190	ppbv #	98
20) Methylene Chloride	2.065	84	1417	0.327	ppbv #	85
21) Allyl Chloride	2.101	41	1226	0.155	ppbv #	77
22) trans-1,2-Dichloroethene	2.347	96	404	0.084	ppbv #	15
23) Vinyl Acetate	2.467	43	2544	0.139	ppbv #	69
24) 1,1-Dichloroethane	2.415	63	1167	0.117	ppbv #	87
25) Ethyl Acetate	2.845	43	1415	0.041	ppbv #	72
26) Hexane	2.829	57	1079	0.075	ppbv #	1
27) Carbon Disulfide	2.156	76	1350	0.116	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	359	0.061	ppbv #	81
29) Chloroform	2.862	83	2470	0.114	ppbv #	70
30) Cyclohexane	3.865	84	484	0.045	ppbv #	2
31) cis-1,2-Dichloroethene	2.726	61	1434	0.105	ppbv #	79
32) 1,1,1-Trichloroethane	3.383	97	868	0.042	ppbv #	1
34) 2-Butanone	2.567	43	2827	0.137	ppbv	92
35) Carbon Tetrachloride	3.771	117	1136	0.063	ppbv #	92
36) Benzene	3.667	78	2427	0.092	ppbv #	75
37) 1,2-Dichloroethane	3.227	62	1859	0.133	ppbv #	79
38) Trichloroethene	4.561	130	564	0.050	ppbv #	54
39) 1,2-Dichloropropane	3.972	63	68280	6.643	ppbv #	23
40) 1,4-Dioxane	4.622	88	173	0.043	ppbv #	34
41) Tetrahydrofuran	3.072	42	359	0.034	ppbv #	41
42) Bromodichloromethane	4.499	83	1549	0.078	ppbv #	70
43) Methyl Methacrylate	4.897	69	323	0.038	ppbv #	1
44) 2,2,4-Trimethylpentane	4.648	57	1645	0.037	ppbv #	42
46) cis-1,3-Dichloropropene	5.609	75	516	0.042	ppbv	96
47) 1,1,2-Trichloroethane	6.603	97	585	0.058	ppbv #	54

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
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 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2025

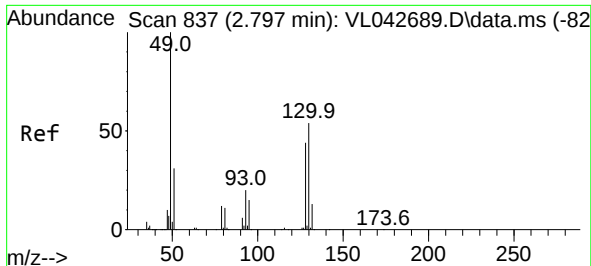
Quant Time: Jul 04 03:55:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 03 01:50:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
49) Bromoform	9.493	173	1232	0.092	ppbv	#	85
52) Tetrachloroethene	8.234	164	278	0.032	ppbv	#	47
53) Toluene	6.953	91	1976	0.080	ppbv		97
54) 1,2-Dibromoethane	7.661	107	583	0.041	ppbv		84
56) 1,1,1,2-Tetrachloroethane	8.933	131	1359	0.110	ppbv	#	46
57) Chlorobenzene	8.930	112	2616	0.115	ppbv	#	84
59) m/p-Xylene	9.545	91	1406	0.051	ppbv	#	30
60) o-Xylene	9.979	91	905	0.033	ppbv	#	31
61) Styrene	9.882	104	580	0.054	ppbv	#	58
62) Isopropylbenzene	10.549	105	2849	0.070	ppbv		93
63) 1,1,2,2-Tetrachloroethane	9.979	83	2242	0.107	ppbv		90
64) n-propylbenzene	11.002	120	527	0.050	ppbv		80
65) tert-Butylbenzene	11.536	119	1435	0.041	ppbv	#	79
69) p-Isopropyltoluene	11.934	119	1605	0.038	ppbv	#	89
70) n-Butylbenzene	12.293	91	1737	0.040	ppbv		92
71) 2-Chlorotoluene	10.914	91	2189	0.072	ppbv		96
72) 4-Ethyltoluene	11.134	105	1638	0.049	ppbv	#	89
73) 1,3,5-Trimethylbenzene	11.215	105	1270	0.046	ppbv		98
74) 1,2,4-Trimethylbenzene	11.545	105	1418	0.045	ppbv	#	77
75) 1,3-Dichlorobenzene	11.613	146	1016	0.045	ppbv	#	60
76) 1,4-Dichlorobenzene	11.681	146	1265	0.060	ppbv		84
77) 1,2-Dichlorobenzene	11.953	146	1590	0.070	ppbv		93
78) Hexachloro-1,3-Butadiene	13.889	225	2127	0.121	ppbv		96
79) Naphthalene	13.520	128	859	0.032	ppbv	#	87
81) 1,2,4-Trichlorobenzene	13.449	180	517	0.033	ppbv	#	67

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

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

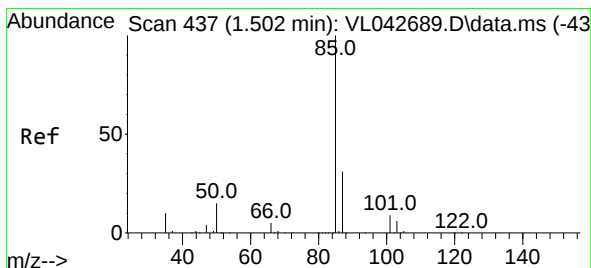
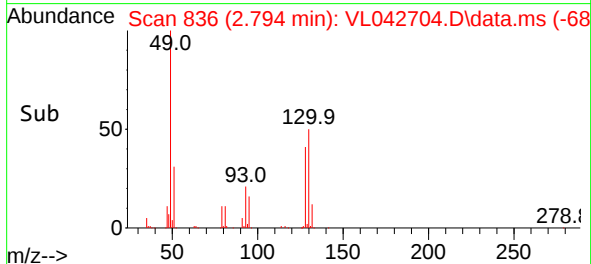
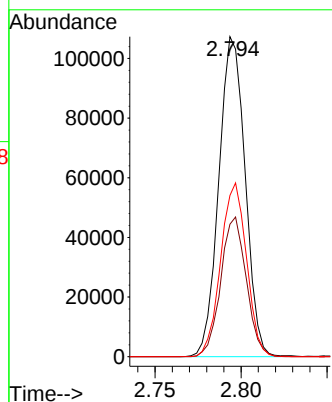
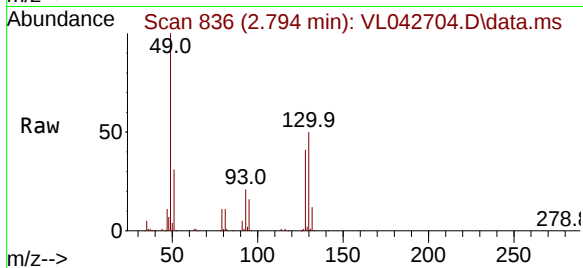
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#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.794 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042704.D
 Acq: 03 Jul 2025 12:43

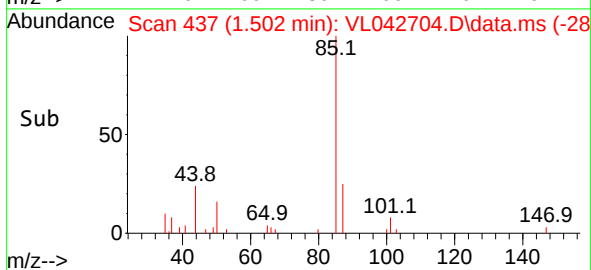
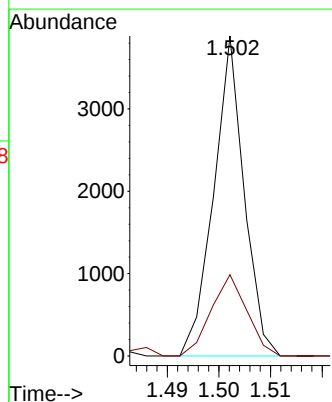
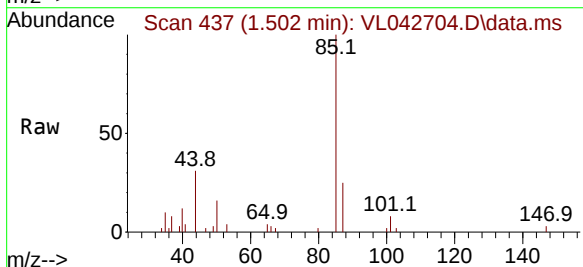
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 ClientSampleId :
 LOQ-AIR-02-QT2-2025

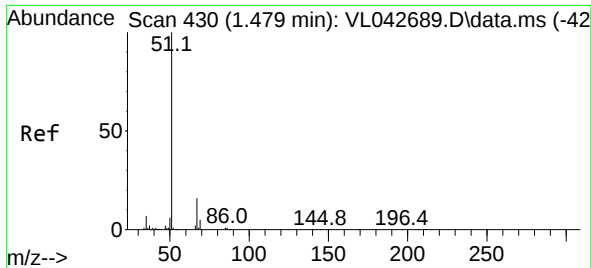
Tgt Ion: 49 Resp: 114186
 Ion Ratio Lower Upper
 49 100
 128 42.4 21.4 64.2
 130 53.2 28.0 84.0



#2
 Dichlorodifluoromethane
 Concen: 0.133 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.000 min
 Lab File: VL042704.D
 Acq: 03 Jul 2025 12:43

Tgt Ion: 85 Resp: 1591
 Ion Ratio Lower Upper
 85 100
 87 25.4 25.1 37.7

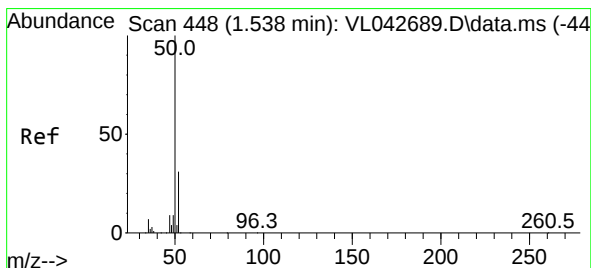
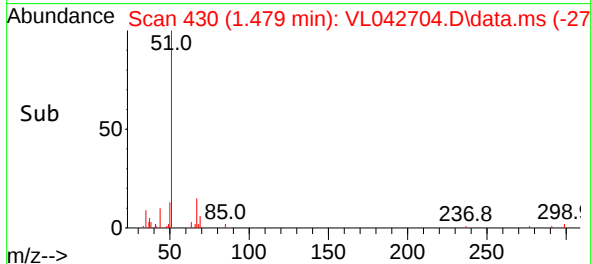
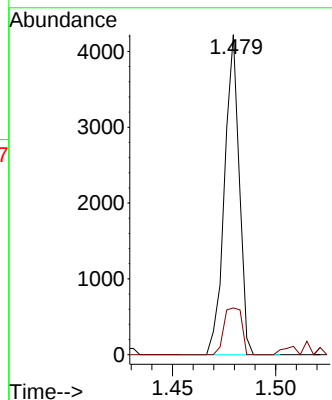
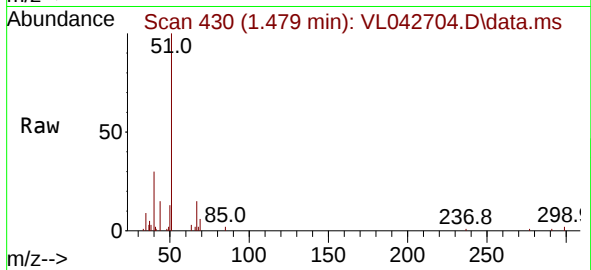




#3
Chlorodifluoromethane
Concen: 0.117 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

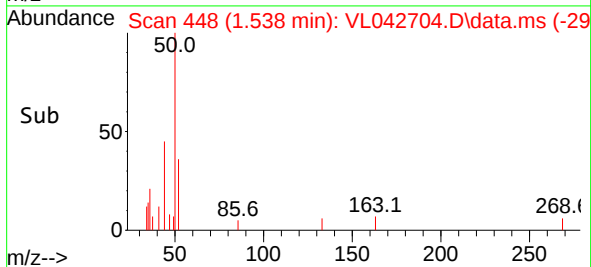
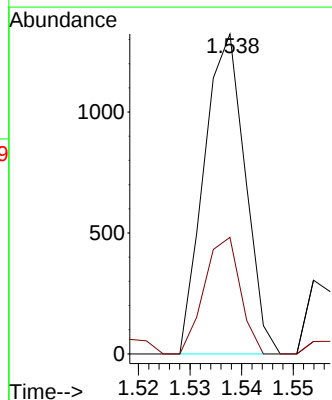
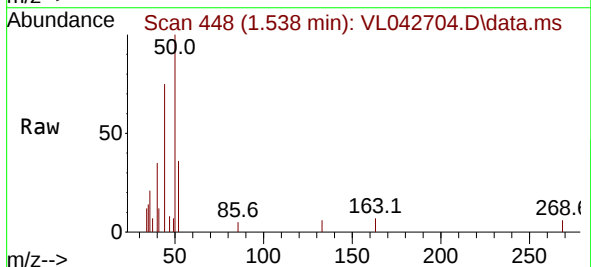
Instrument :
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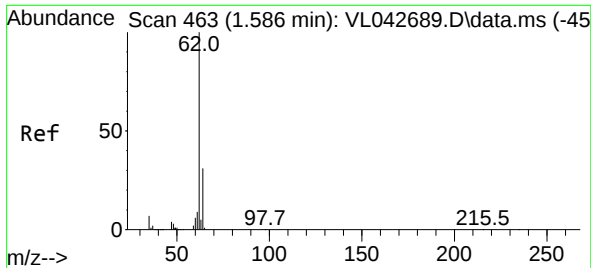
Tgt Ion: 51 Resp: 2092
Ion Ratio Lower Upper
51 100
67 20.0 13.1 19.7#



#4
Chloromethane
Concen: 0.156 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 50 Resp: 732
Ion Ratio Lower Upper
50 100
52 36.4 24.8 37.2

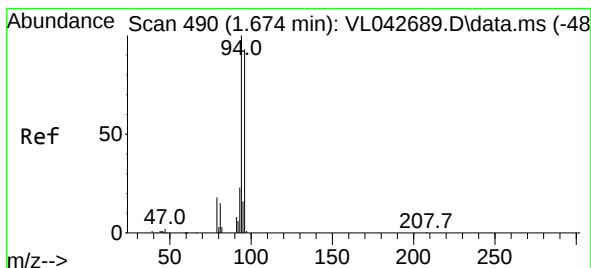
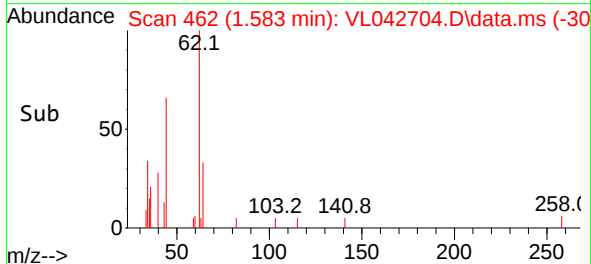
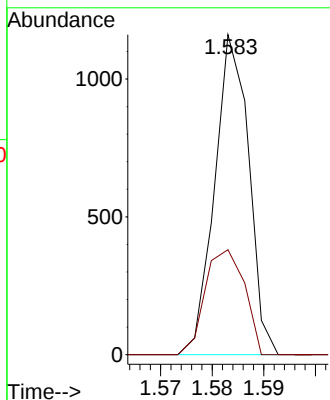
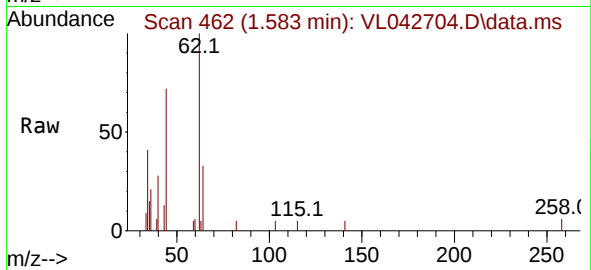




#5
 Vinyl Chloride
 Concen: 0.113 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.003 min
 Lab File: VL042704.D
 Acq: 03 Jul 2025 12:43

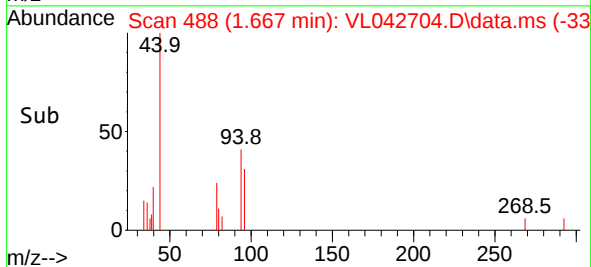
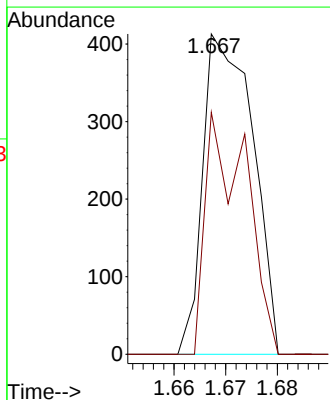
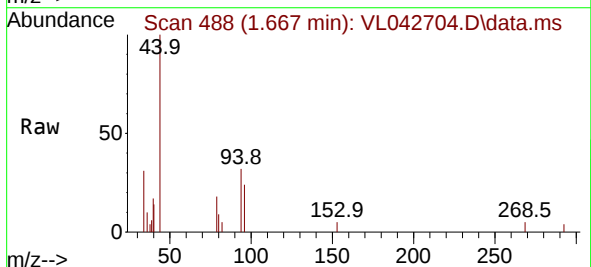
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2025

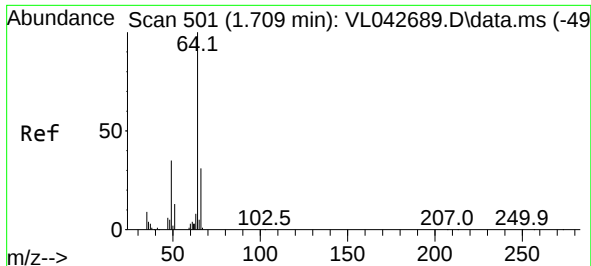
Tgt Ion: 62 Resp: 533
 Ion Ratio Lower Upper
 62 100
 64 32.8 25.1 37.7



#6
 Bromomethane
 Concen: 0.132 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.006 min
 Lab File: VL042704.D
 Acq: 03 Jul 2025 12:43

Tgt Ion: 94 Resp: 277
 Ion Ratio Lower Upper
 94 100
 96 75.5 74.6 112.0

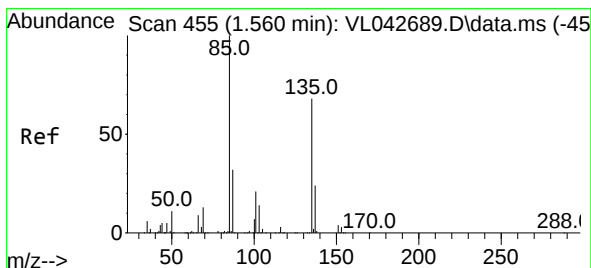
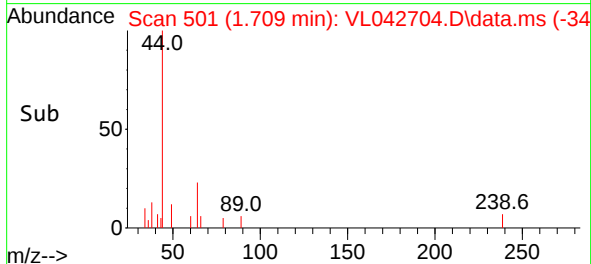
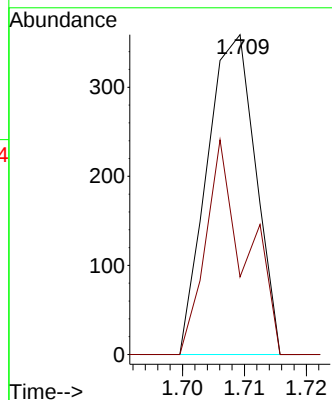
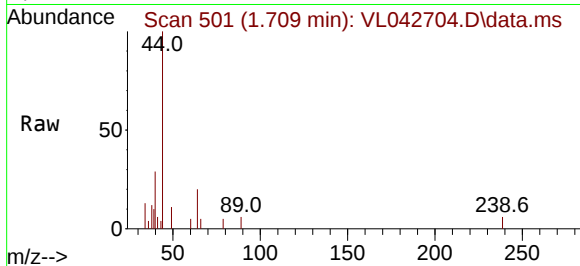




#7
Chloroethane
Concen: 0.108 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.000 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

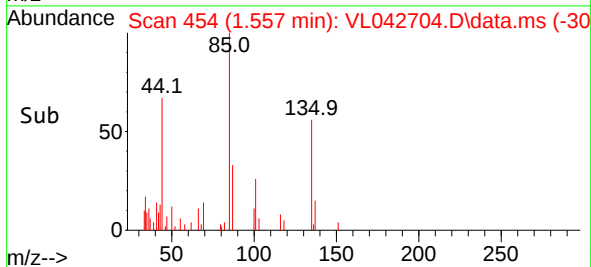
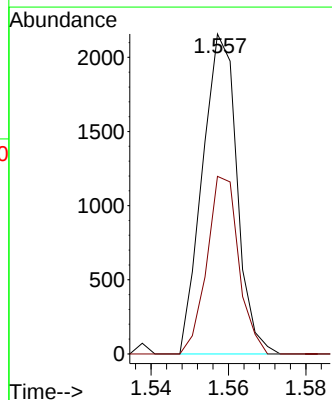
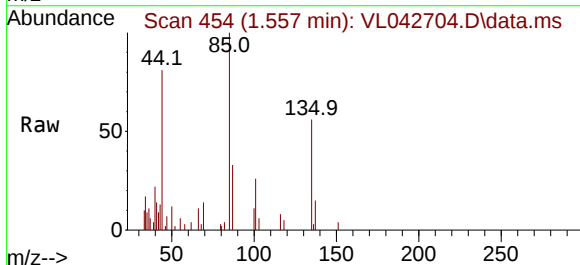
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

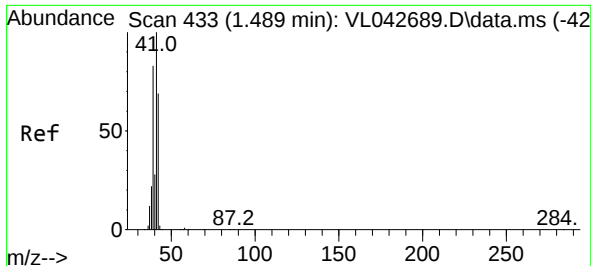
Tgt Ion: 64 Resp: 196
Ion Ratio Lower Upper
64 100
66 24.2 24.7 37.1#



#8
Dichlorotetrafluoroethane
Concen: 0.135 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 85 Resp: 1337
Ion Ratio Lower Upper
85 100
135 51.1 52.6 79.0#





#9

Propene

Concen: 0.052 ppbv

RT: 1.606 min Scan# 41

Delta R.T. 0.117 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Instrument :

MSVOA_L

ClientSampleId :

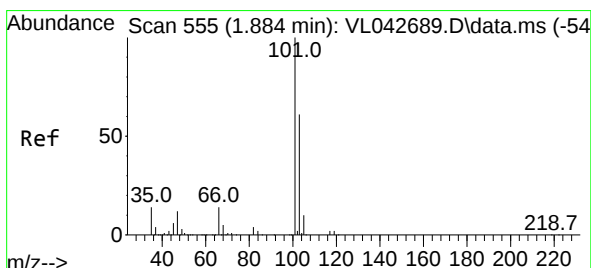
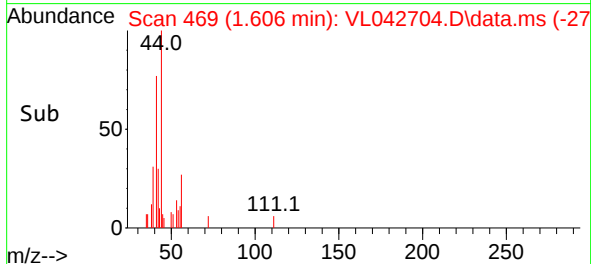
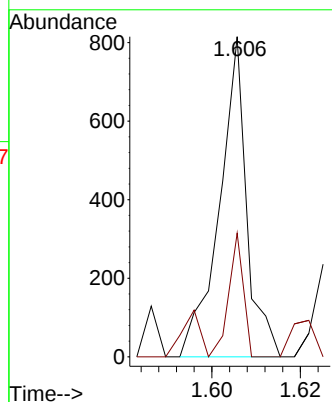
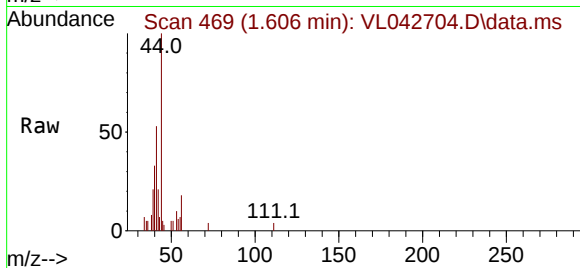
LOQ-AIR-02-QT2-2025

Tgt Ion: 41 Resp: 349

Ion Ratio Lower Upper

41 100

42 65.3 55.6 83.4



#11

Trichlorofluoromethane

Concen: 0.127 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.003 min

Lab File: VL042704.D

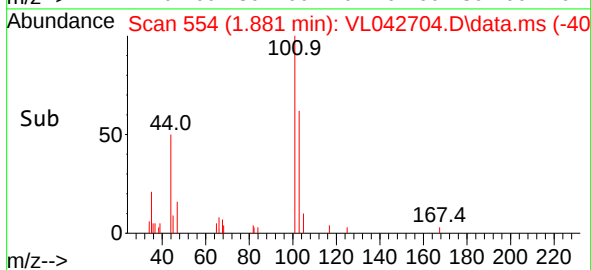
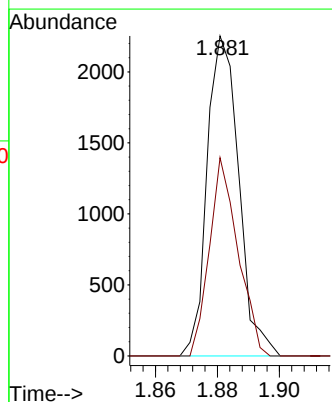
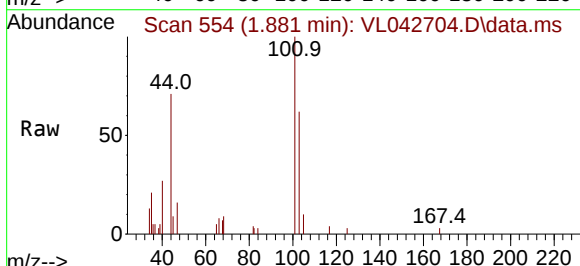
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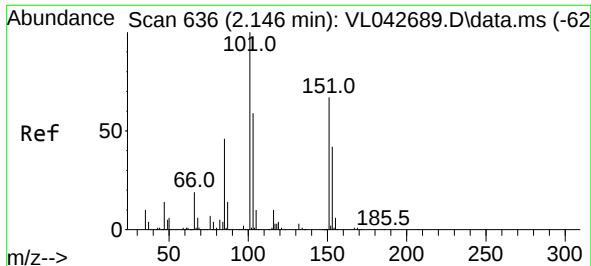
Tgt Ion: 101 Resp: 1597

Ion Ratio Lower Upper

101 100

103 62.0 48.9 73.3

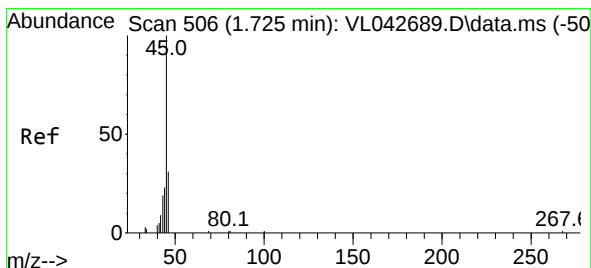
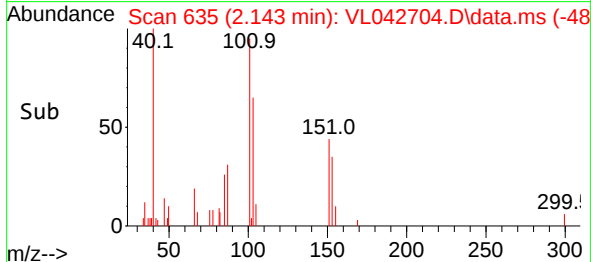
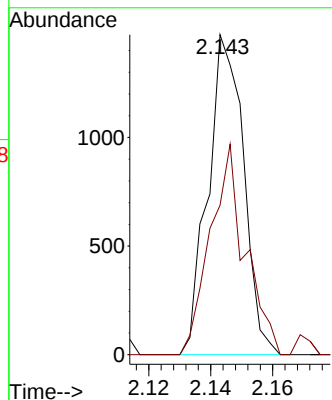
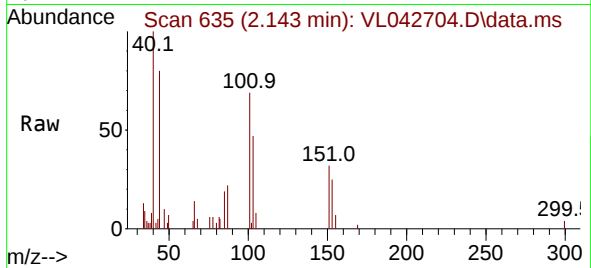




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.118 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

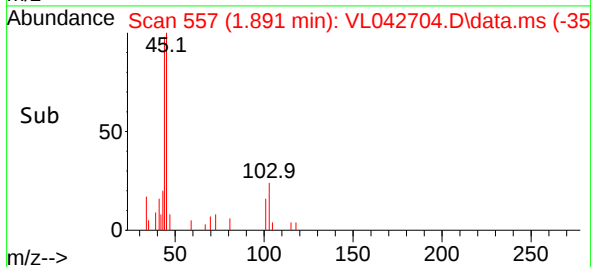
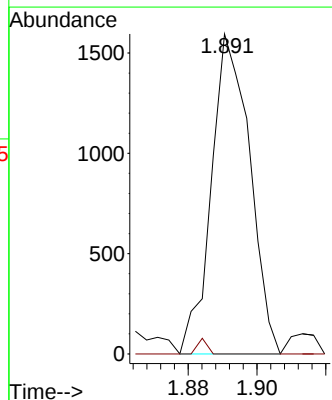
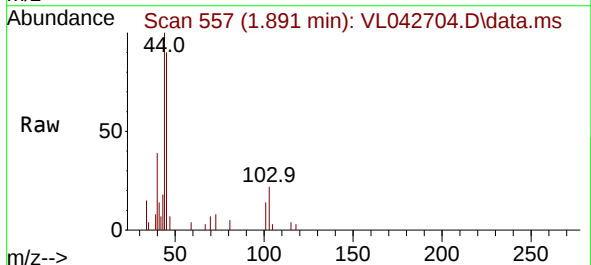
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LOQ-AIR-02-QT2-2025

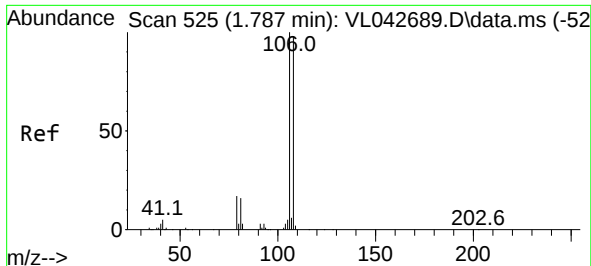
Tgt Ion:101 Resp: 1173
Ion Ratio Lower Upper
101 100
151 67.3 56.6 84.8



#13
Ethanol
Concen: 1.915 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.165 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 45 Resp: 1236
Ion Ratio Lower Upper
45 100
46 0.0 15.2 60.8#

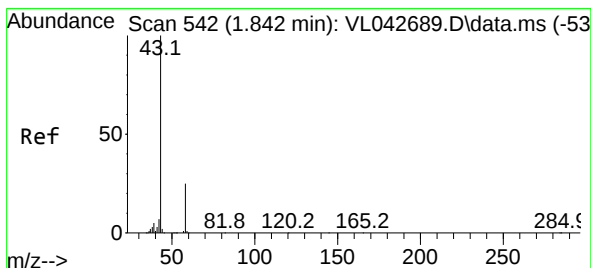
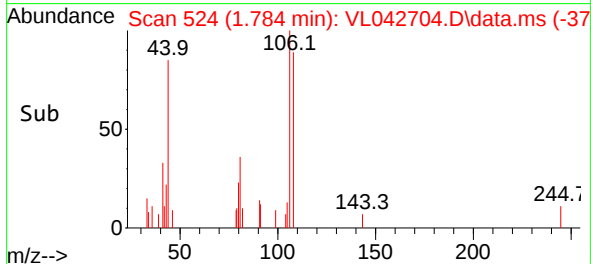
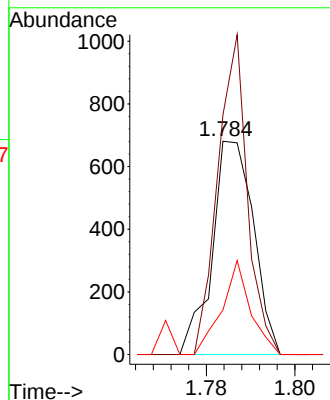
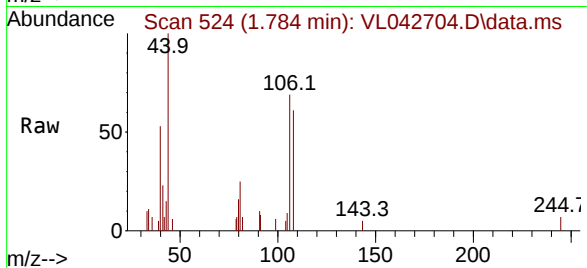




#14
Bromoethene
Concen: 0.127 ppbv
RT: 1.784 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

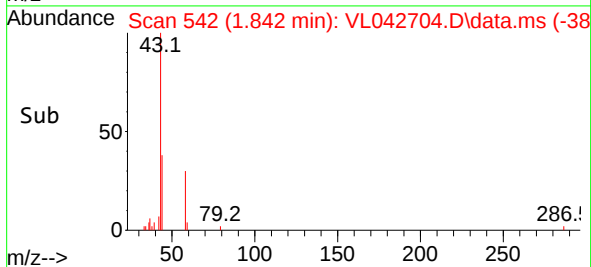
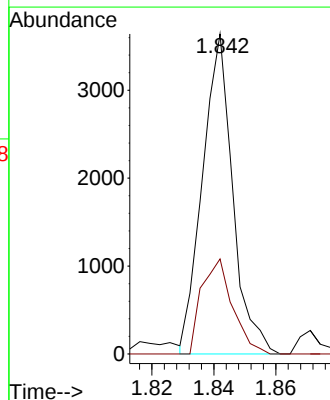
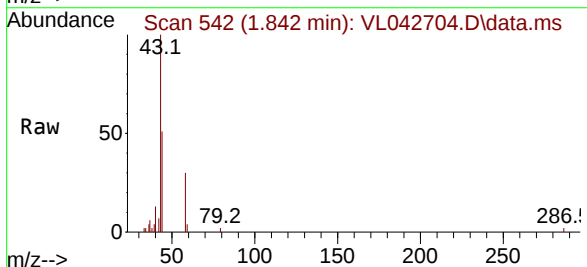
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

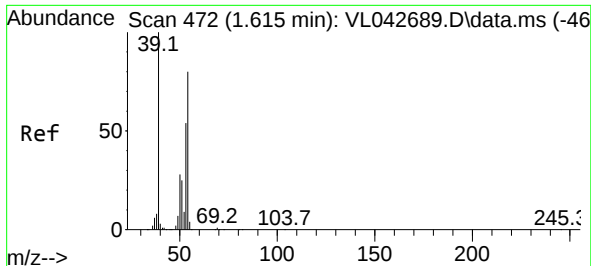
Tgt Ion:108 Resp: 443
Ion Ratio Lower Upper
108 100
106 106.8 85.9 128.9
79 41.5 14.5 21.7#



#15
Acetone
Concen: 0.218 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.000 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 43 Resp: 2472
Ion Ratio Lower Upper
43 100
58 30.3 20.6 31.0

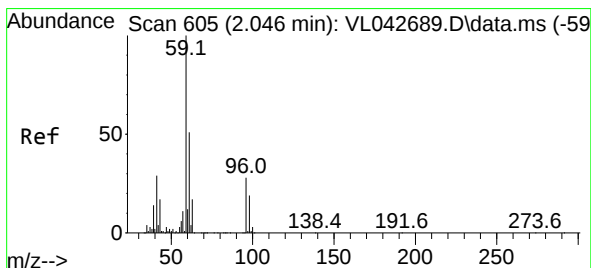
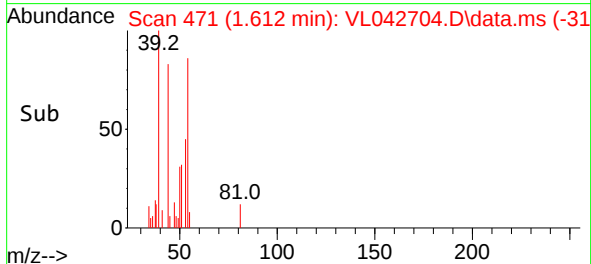
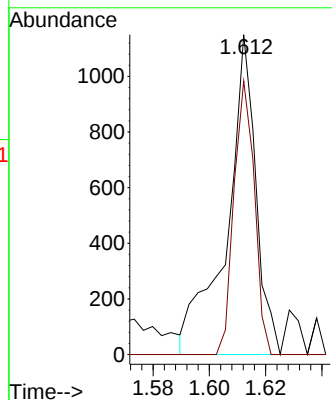
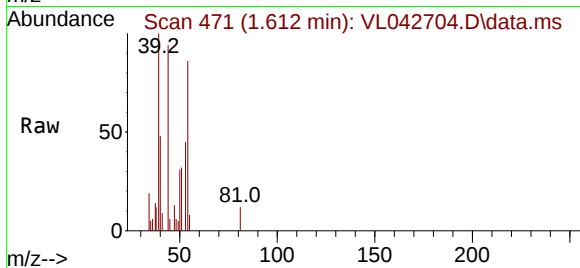




#16
1,3-Butadiene
Concen: 0.159 ppbv
RT: 1.612 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

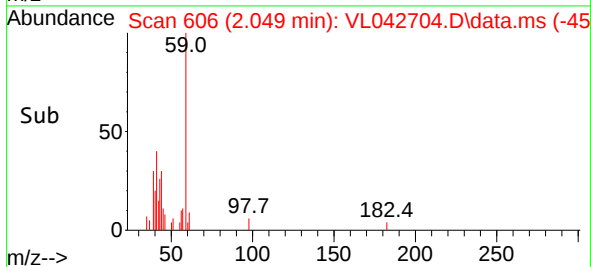
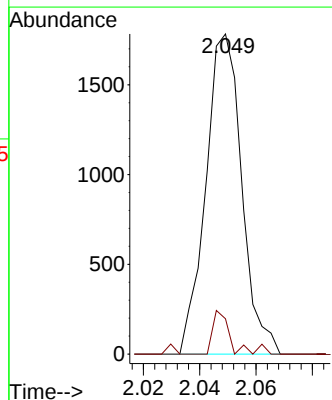
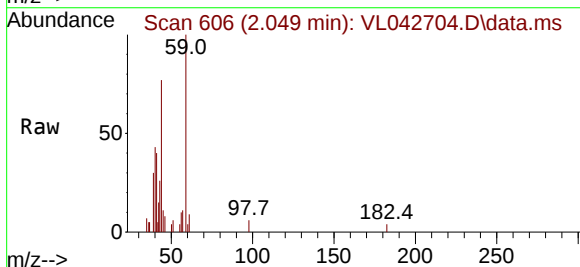
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

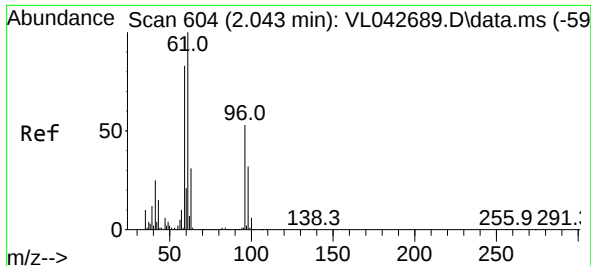
Tgt Ion: 39 Resp: 830
Ion Ratio Lower Upper
39 100
54 59.6 54.9 82.3



#17
tert-Butyl alcohol
Concen: 0.143 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 59 Resp: 1580
Ion Ratio Lower Upper
59 100
57 7.4 8.8 13.2#





#18

1,1-Dichloroethene

Concen: 0.120 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.003 min

Lab File: VL042704.D

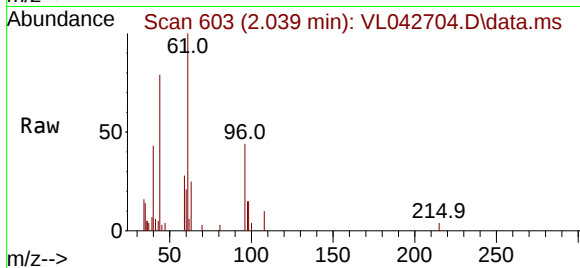
Acq: 03 Jul 2025 12:43

Instrument :

MSVOA_L

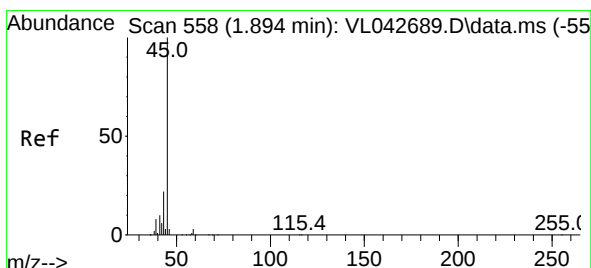
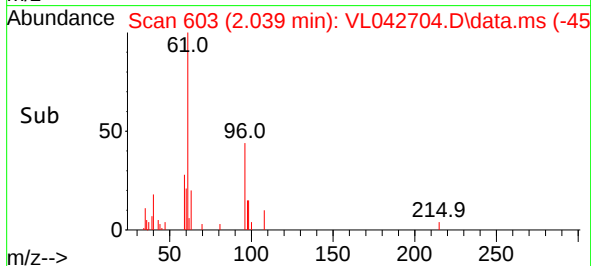
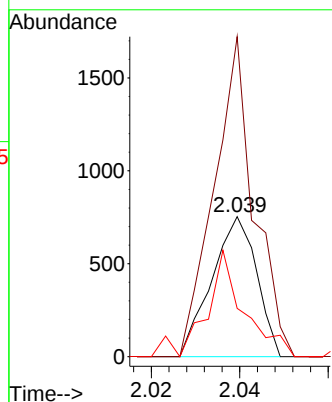
ClientSampleId :

LOQ-AIR-02-QT2-2025



Tgt Ion: 96 Resp: 530

Ion	Ratio	Lower	Upper
96	100		
61	241.6	151.0	226.6#
98	34.5	49.0	73.4#



#19

Isopropyl Alcohol

Concen: 0.190 ppbv

RT: 1.891 min Scan# 557

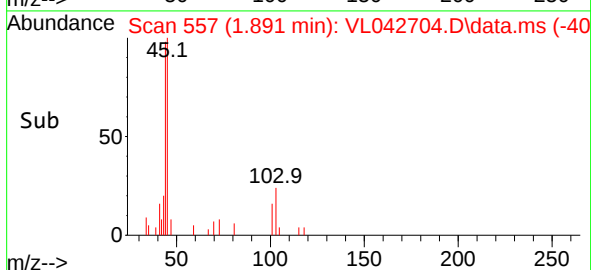
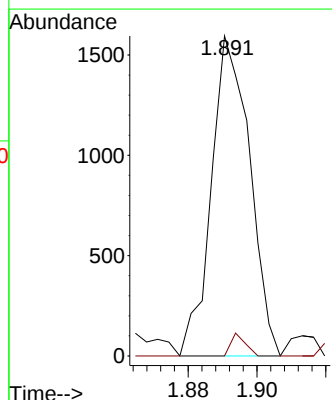
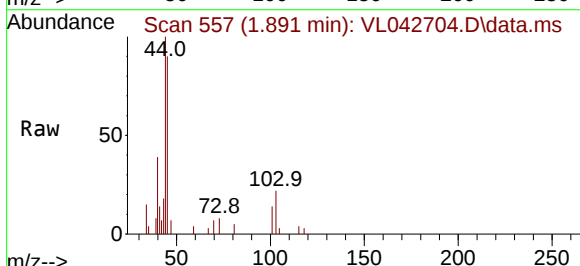
Delta R.T. -0.003 min

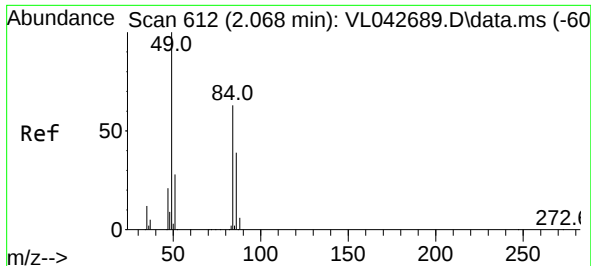
Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Tgt Ion: 45 Resp: 1236

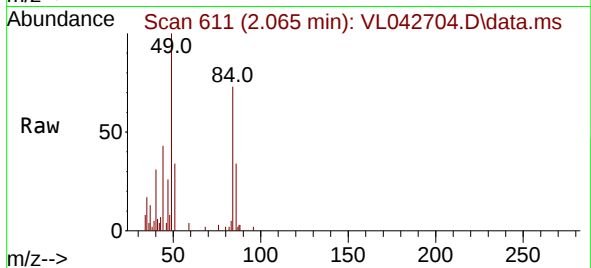
Ion	Ratio	Lower	Upper
45	100		
58	2.7	1.4	2.2#



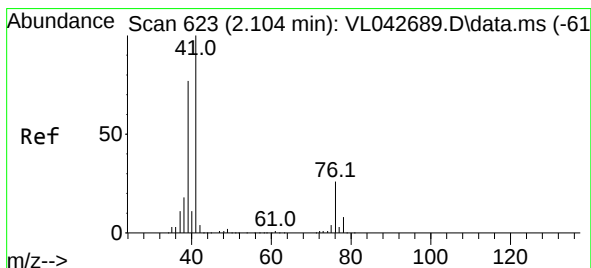
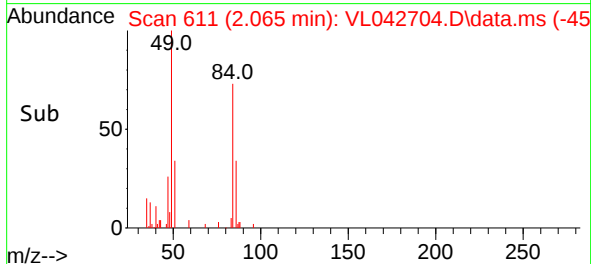
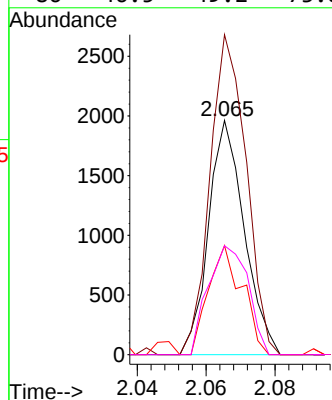


#20
Methylene Chloride
Concen: 0.327 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

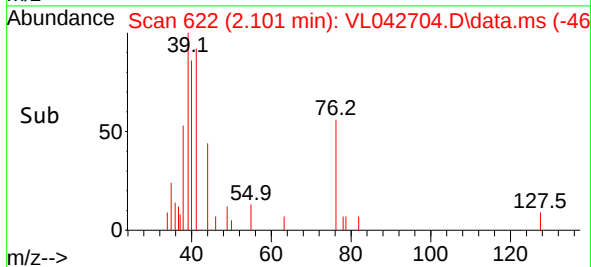
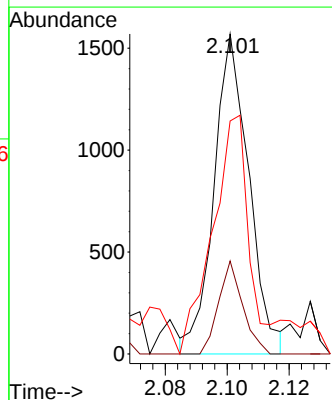
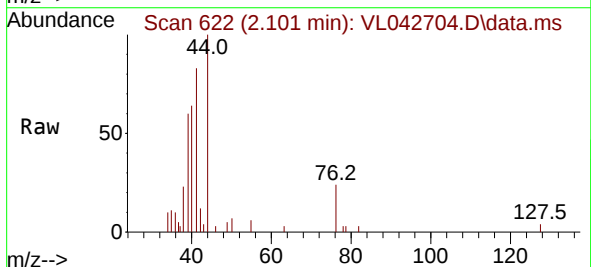


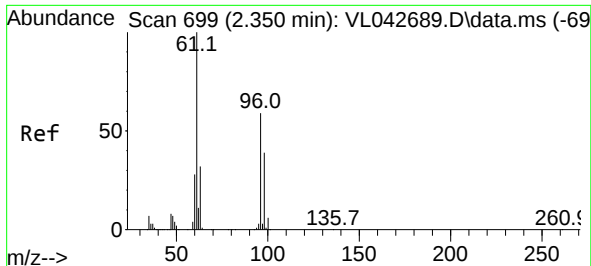
Tgt Ion: 84	Resp: 1417
Ion Ratio	Lower Upper
84 100	
49 136.6	128.6 193.0
51 46.6	37.4 56.2
86 46.5	49.2 73.8#



#21
Allyl Chloride
Concen: 0.155 ppbv
RT: 2.101 min Scan# 622
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 41	Resp: 1226		
Ion Ratio	Lower	Upper	
41 100			
76 22.3	21.7	32.5	
39 103.9	63.4	95.2	#

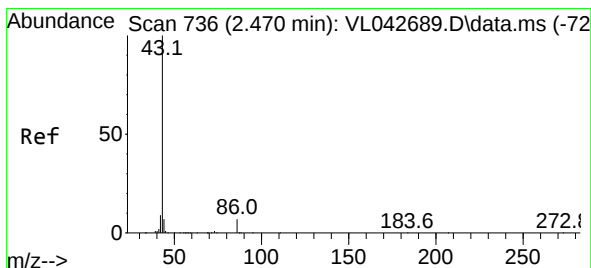
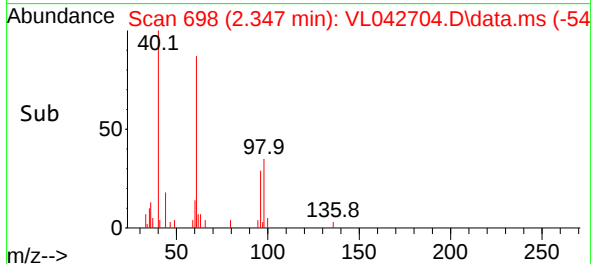
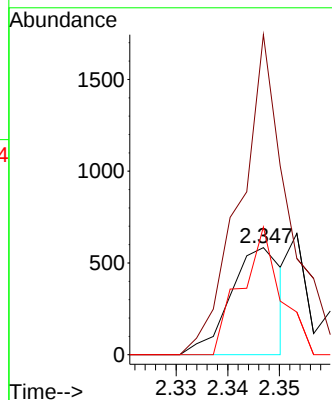
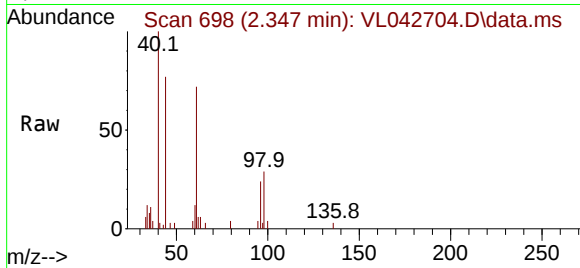




#22
trans-1,2-Dichloroethene
Concen: 0.084 ppbv
RT: 2.347 min Scan# 699
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

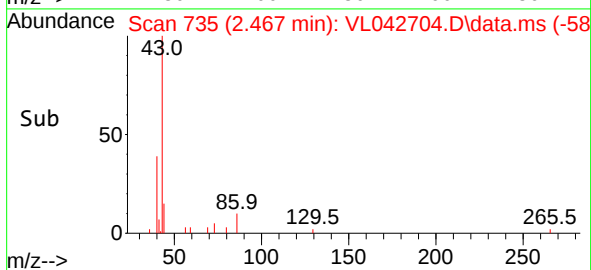
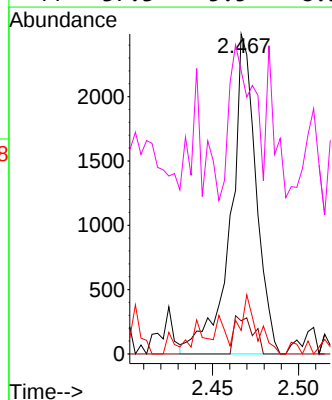
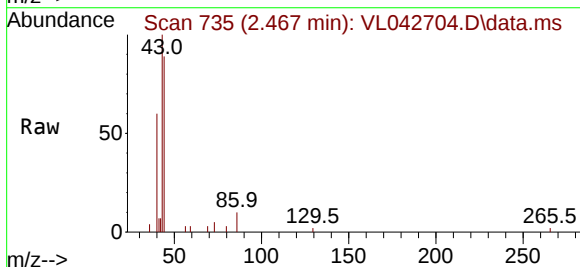
Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT2-2025

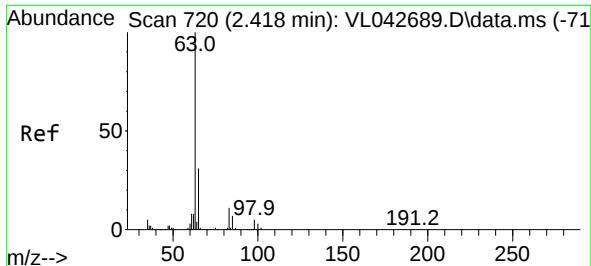
Tgt Ion: 96 Resp: 404
Ion Ratio Lower Upper
96 100
61 298.6 136.5 204.7#
98 119.2 53.5 80.3#



#23
Vinyl Acetate
Concen: 0.139 ppbv
RT: 2.467 min Scan# 735
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 43 Resp: 2544
Ion Ratio Lower Upper
43 100
86 10.3 5.8 8.6#
42 7.4 7.2 10.8
44 37.3 5.5 8.3#

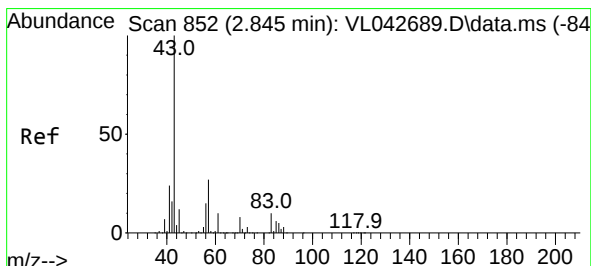
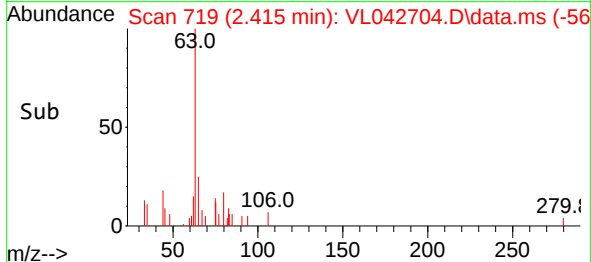
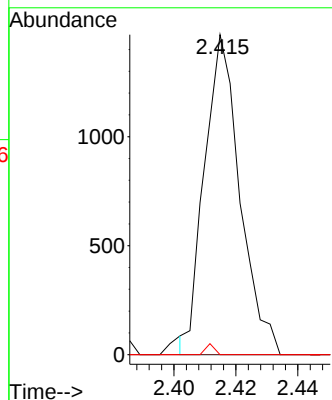
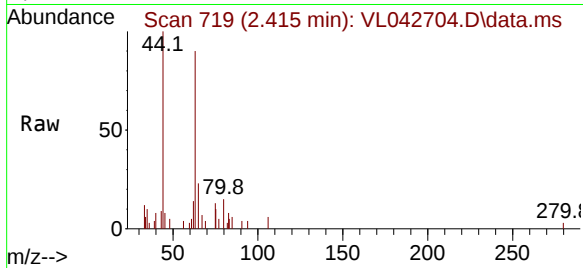




#24
1,1-Dichloroethane
Concen: 0.117 ppbv
RT: 2.415 min Scan# 719
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

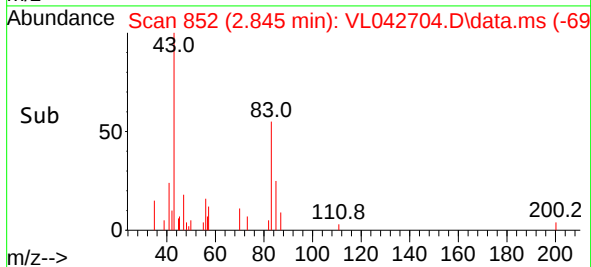
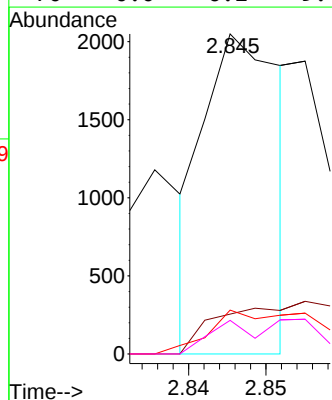
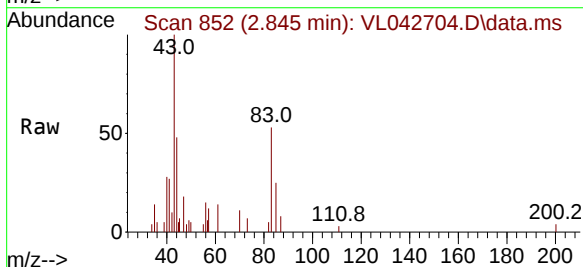
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

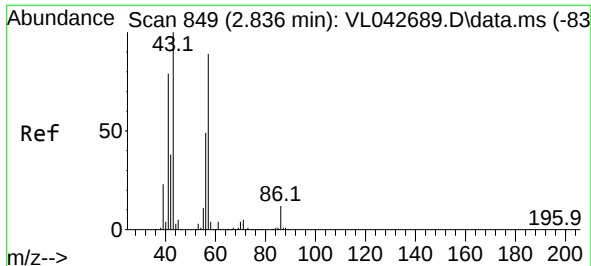
Tgt Ion: 63 Resp: 1167
Ion Ratio Lower Upper
63 100
98 0.0 2.5 7.6#
100 0.0 1.7 5.0#



#25
Ethyl Acetate
Concen: 0.041 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

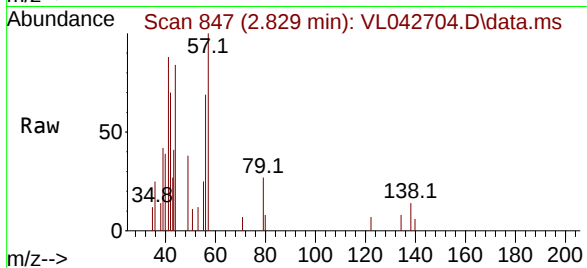
Tgt Ion: 43 Resp: 1415
Ion Ratio Lower Upper
43 100
45 0.0 8.1 12.1#
61 20.7 7.0 10.6#
70 0.0 6.2 9.4#





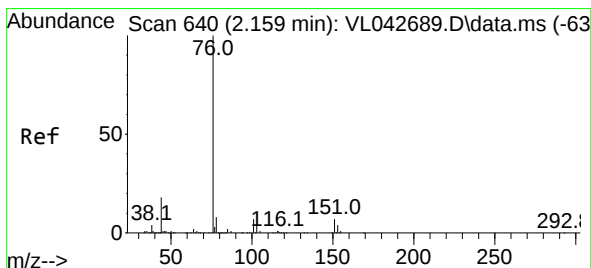
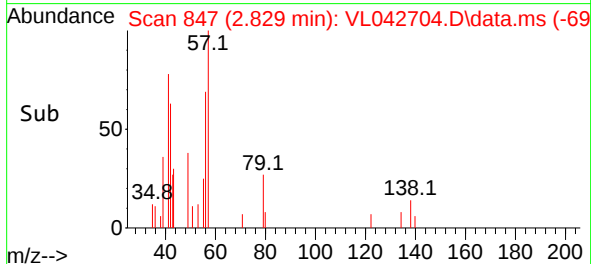
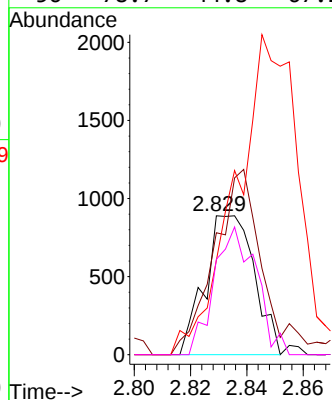
#26
Hexane
Concen: 0.075 ppbv
RT: 2.829 min Scan# 849
Delta R.T. -0.006 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025



Tgt Ion: 57 Resp: 1079

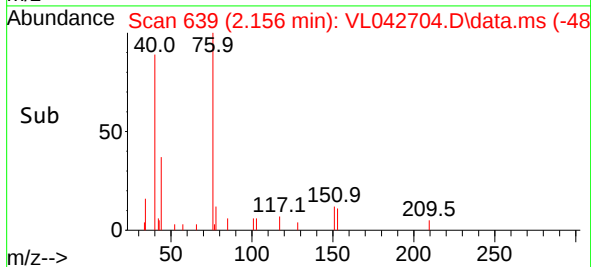
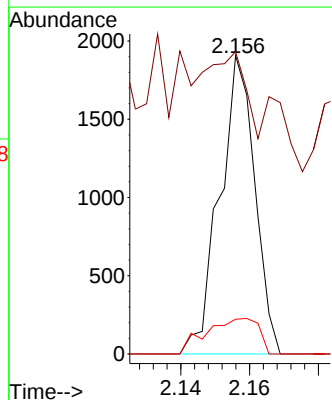
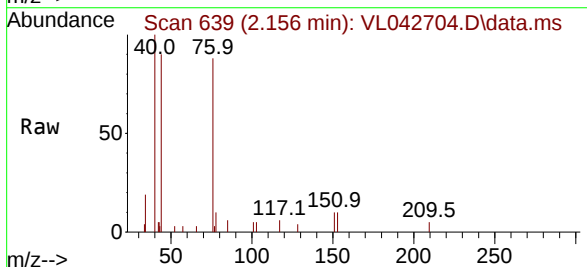
Ion	Ratio	Lower	Upper
57	100		
41	144.3	73.7	110.5#
43	0.0	190.6	285.8#
56	78.7	44.8	67.2#

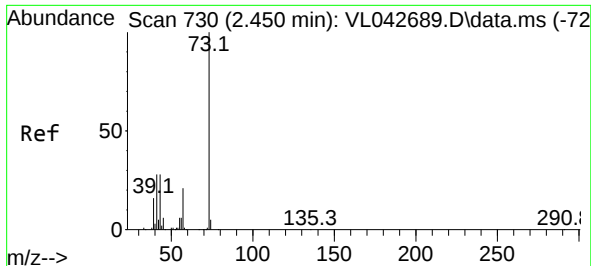


#27
Carbon Disulfide
Concen: 0.116 ppbv
RT: 2.156 min Scan# 639
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 76 Resp: 1350

Ion	Ratio	Lower	Upper
76	100		
44	194.4	15.6	23.4#
78	17.8	9.2	13.8#

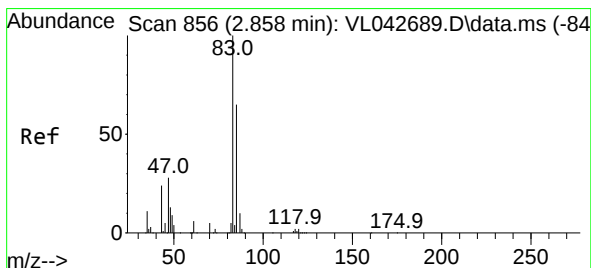
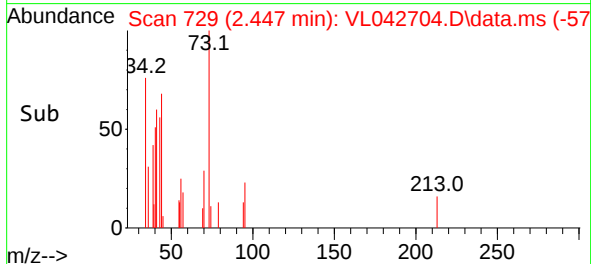
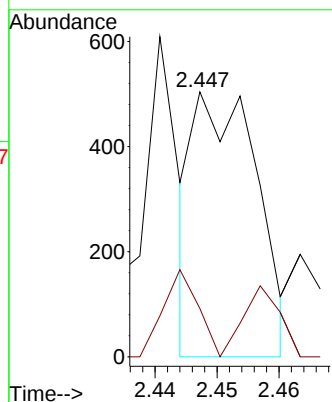
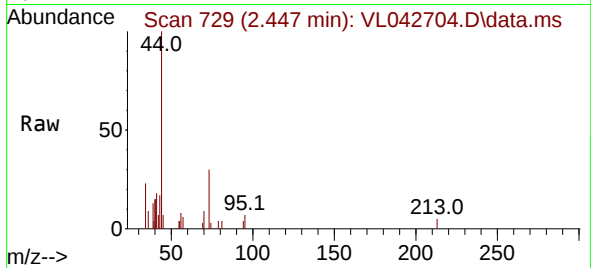




#28
Methyl tert-Butyl Ether
Concen: 0.061 ppbv
RT: 2.447 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

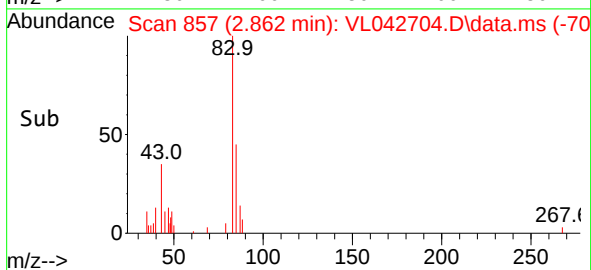
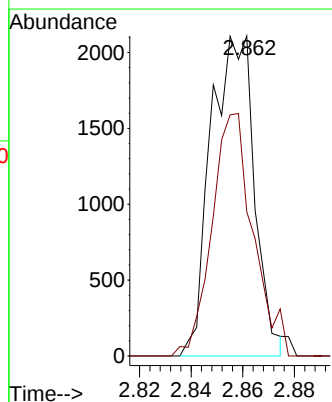
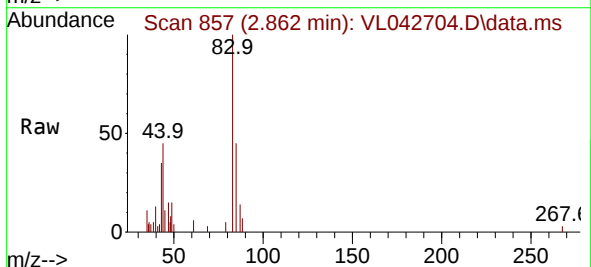
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

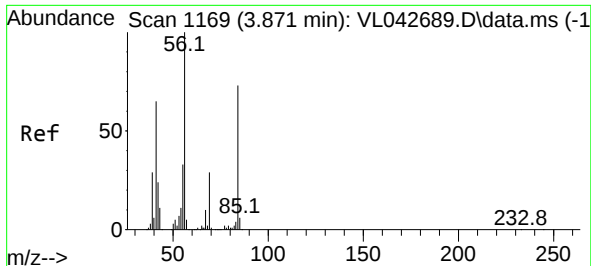
Tgt Ion: 73 Resp: 359
Ion Ratio Lower Upper
73 100
57 33.4 19.3 28.9#



#29
Chloroform
Concen: 0.114 ppbv
RT: 2.862 min Scan# 857
Delta R.T. 0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 83 Resp: 2470
Ion Ratio Lower Upper
83 100
85 42.1 52.4 78.6#

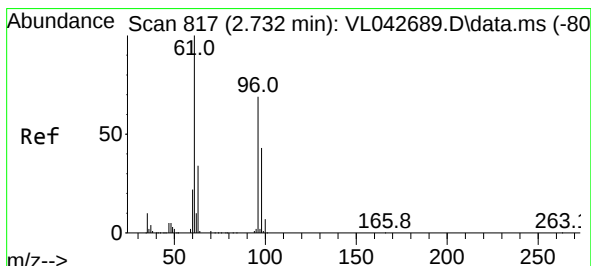
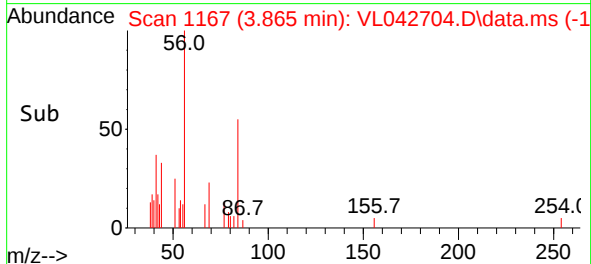
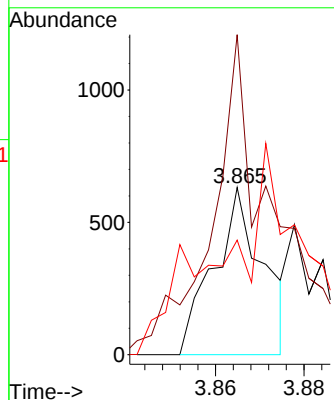
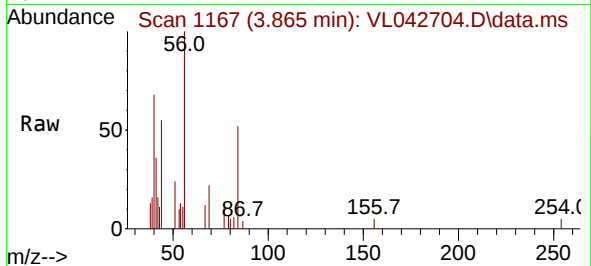




#30
Cyclohexane
Concen: 0.045 ppbv
RT: 3.865 min Scan# 1169
Delta R.T. -0.006 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

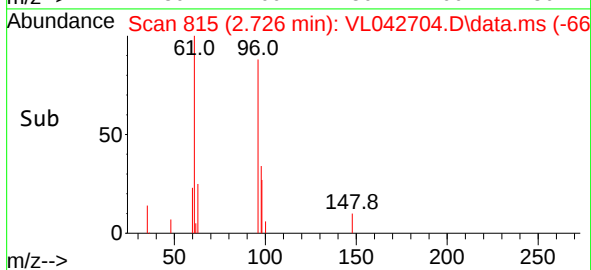
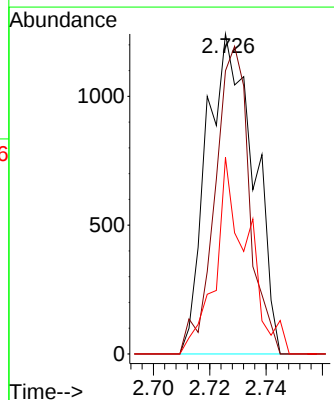
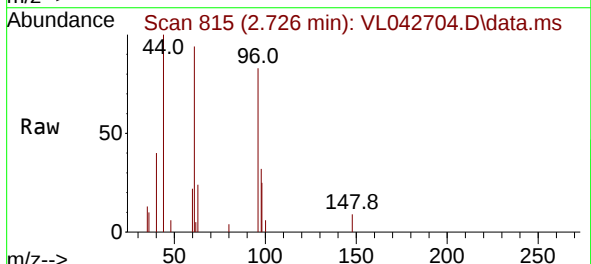
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

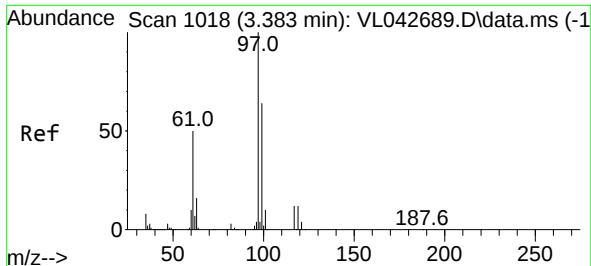
Tgt Ion: 84 Resp: 484
Ion Ratio Lower Upper
84 100
56 238.0 110.4 165.6#
41 203.1 71.4 107.0#



#31
cis-1,2-Dichloroethene
Concen: 0.105 ppbv
RT: 2.726 min Scan# 815
Delta R.T. -0.006 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 61 Resp: 1434
Ion Ratio Lower Upper
61 100
96 84.1 54.8 82.2#
98 58.4 34.7 52.1#

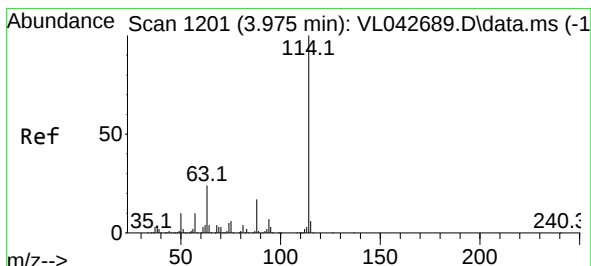
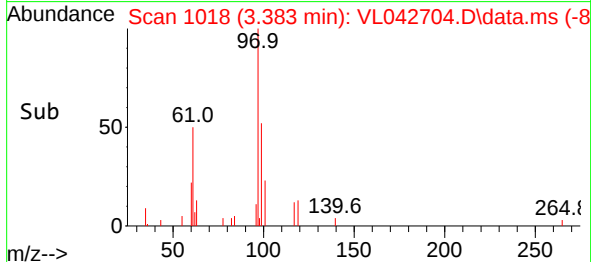
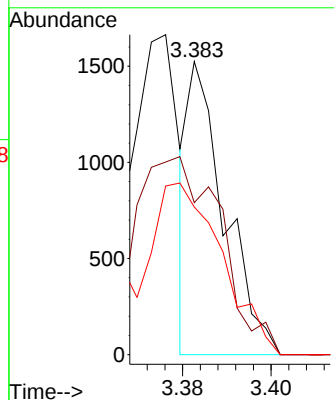
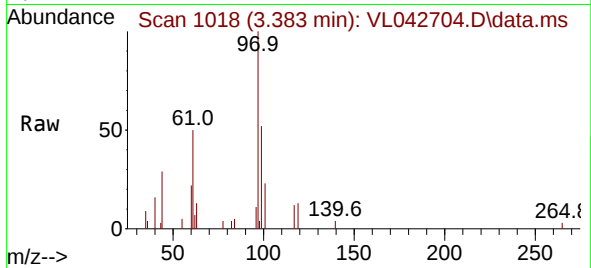




#32
 1,1,1-Trichloroethane
 Concen: 0.042 ppbv
 RT: 3.383 min Scan# 1199
 Delta R.T. 0.000 min
 Lab File: VL042704.D
 Acq: 03 Jul 2025 12:43

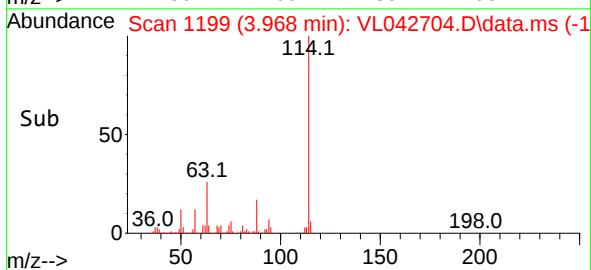
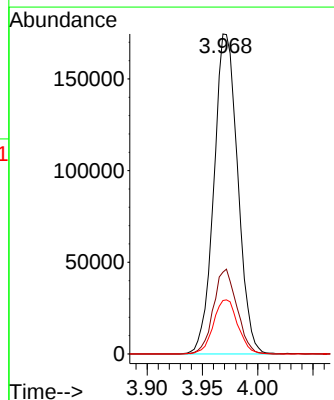
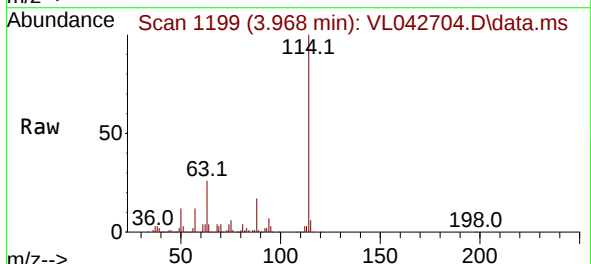
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2025

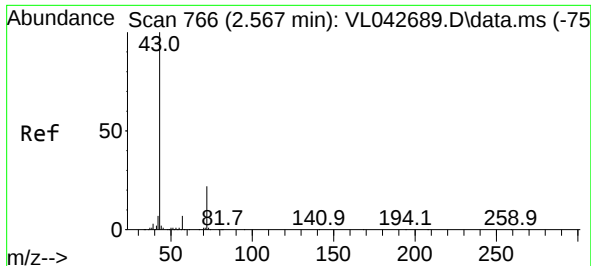
Tgt Ion: 97	Resp: 868
Ion Ratio	Lower Upper
97 100	
99 164.5	51.4 77.0#
61 141.2	41.1 61.7#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.968 min Scan# 1199
 Delta R.T. -0.006 min
 Lab File: VL042704.D
 Acq: 03 Jul 2025 12:43

Tgt	Ion:114	Resp:	261496
Ion	Ratio	Lower	Upper
114	100		
63	26.1	20.4	30.6
88	17.4	14.2	21.2

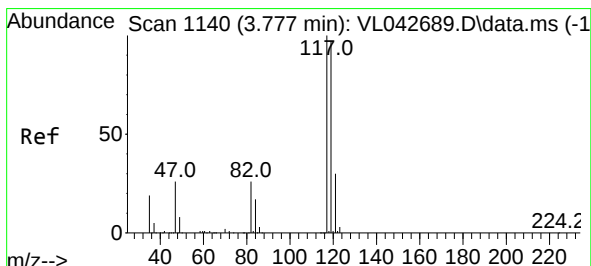
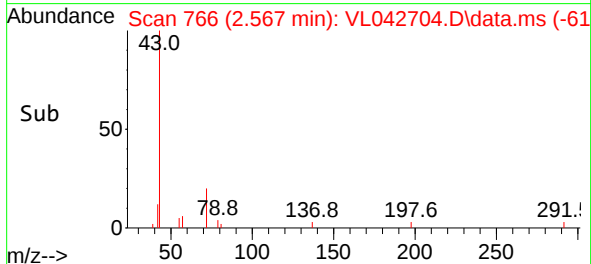
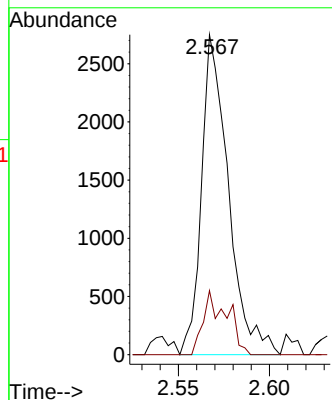
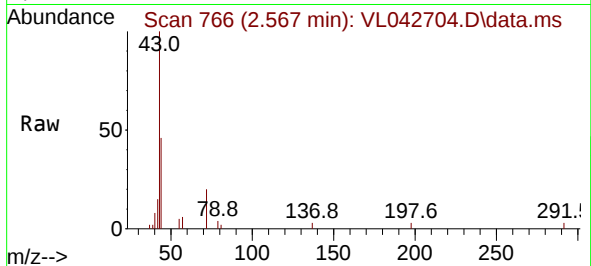




#34
2-Butanone
Concen: 0.137 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.000 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

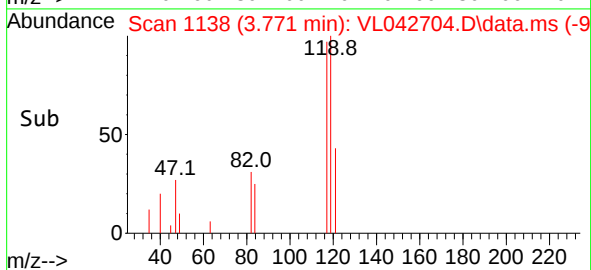
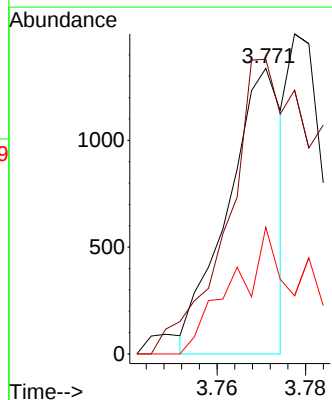
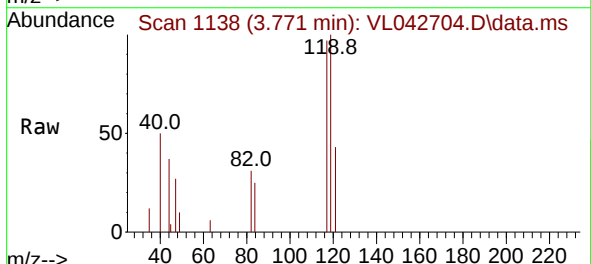
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

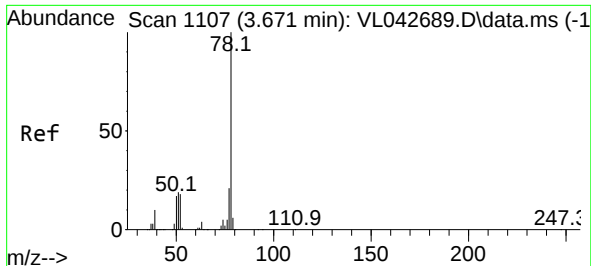
Tgt Ion: 43 Resp: 2827
Ion Ratio Lower Upper
43 100
72 17.7 17.1 25.7



#35
Carbon Tetrachloride
Concen: 0.063 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. -0.006 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 117 Resp: 1136
Ion Ratio Lower Upper
117 100
119 98.2 77.6 116.4
121 47.4 24.0 36.0#

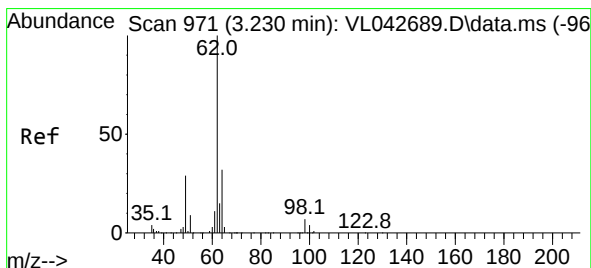
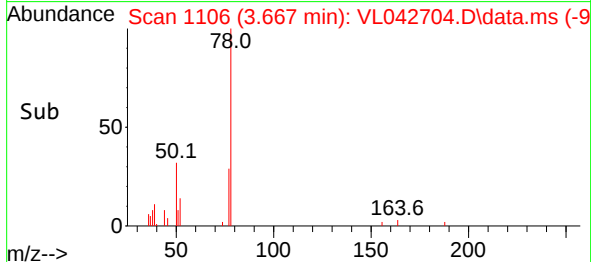
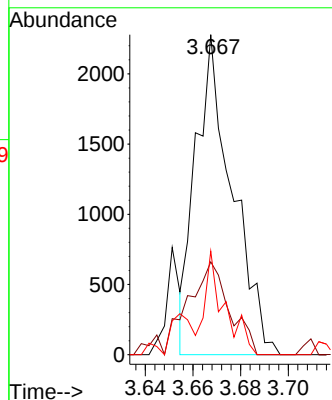
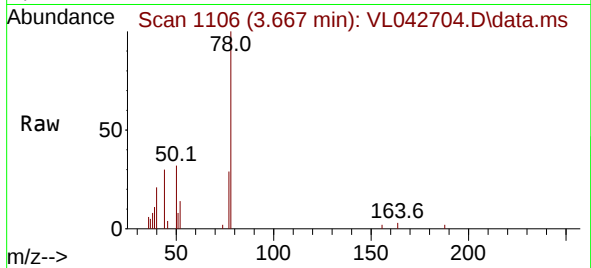




#36
Benzene
Concen: 0.092 ppbv
RT: 3.667 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

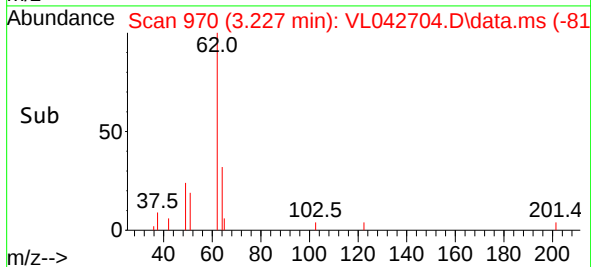
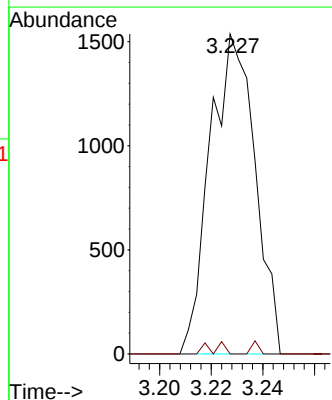
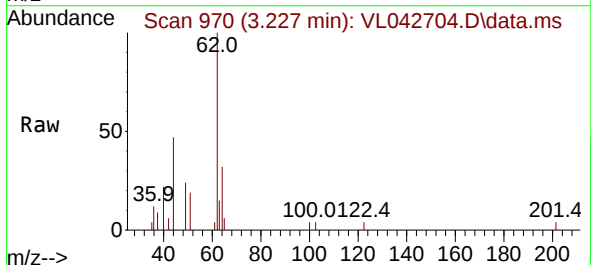
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

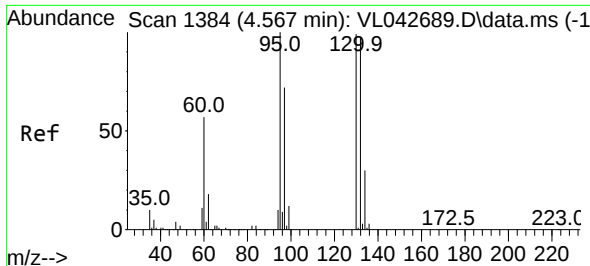
Tgt Ion: 78 Resp: 2427
Ion Ratio Lower Upper
78 100
77 29.0 17.0 25.4#
50 32.4 13.7 20.5#



#37
1,2-Dichloroethane
Concen: 0.133 ppbv
RT: 3.227 min Scan# 970
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 62 Resp: 1859
Ion Ratio Lower Upper
62 100
98 0.0 5.8 8.8#

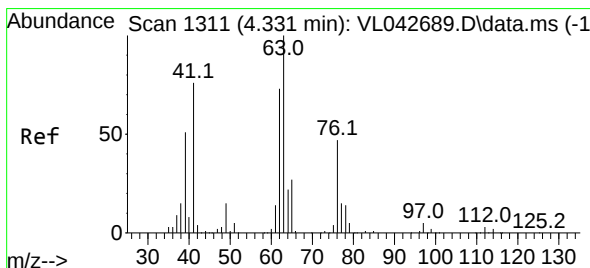
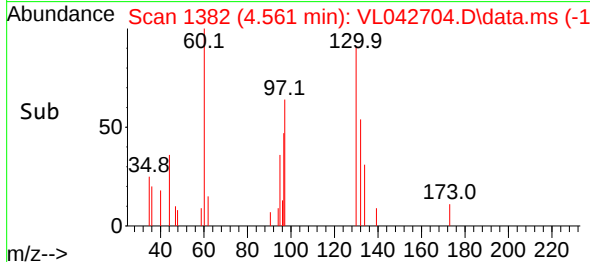
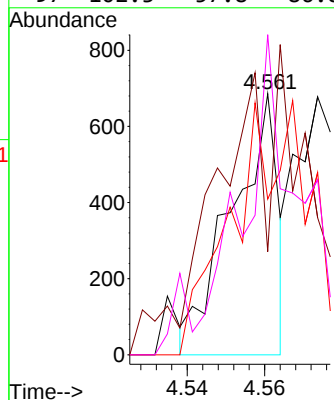
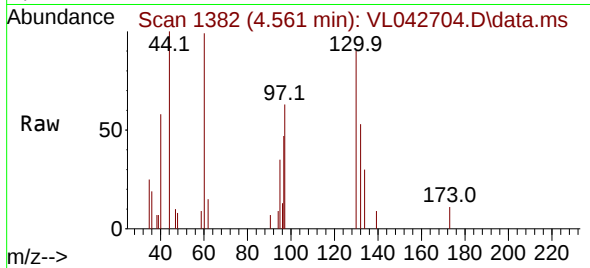




#38
 Trichloroethene
 Concen: 0.050 ppbv
 RT: 4.561 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VL042704.D
 Acq: 03 Jul 2025 12:43

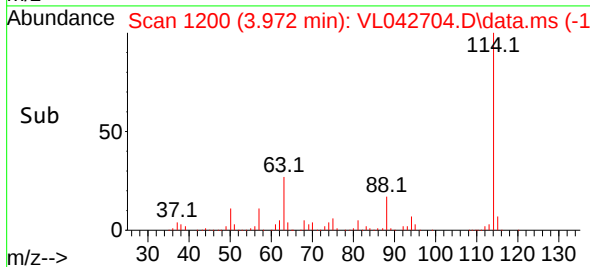
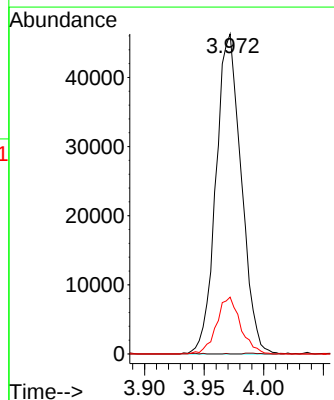
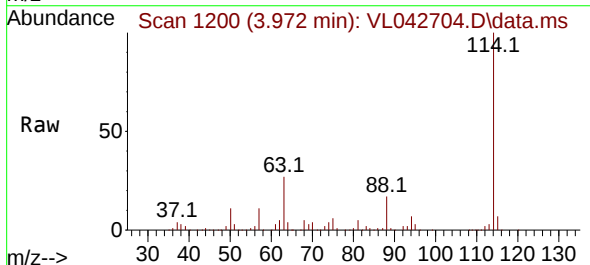
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2025

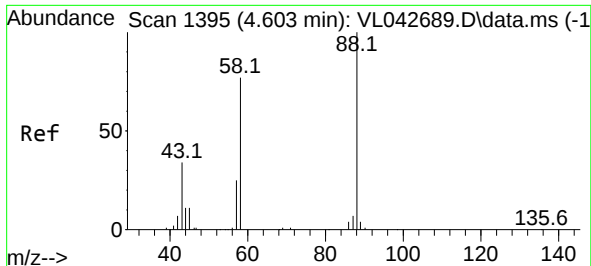
Tgt Ion:	130	Resp:	564
Ion	Ratio	Lower	Upper
130	100		
95	32.8	81.1	121.7#
132	66.7	77.9	116.9#
97	102.3	57.8	86.8#



#39
 1,2-Dichloropropane
 Concen: 6.643 ppbv
 RT: 3.972 min Scan# 1200
 Delta R.T. -0.359 min
 Lab File: VL042704.D
 Acq: 03 Jul 2025 12:43

Tgt Ion:	63	Resp:	68280
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	17.7	58.6	87.8#

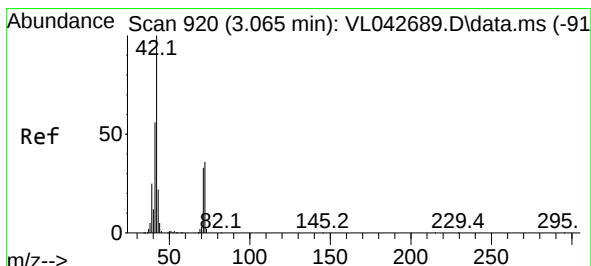
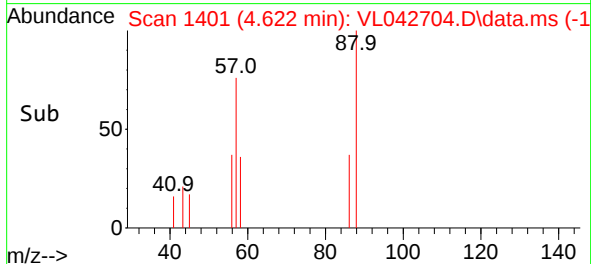
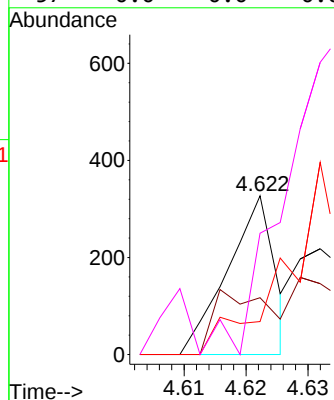
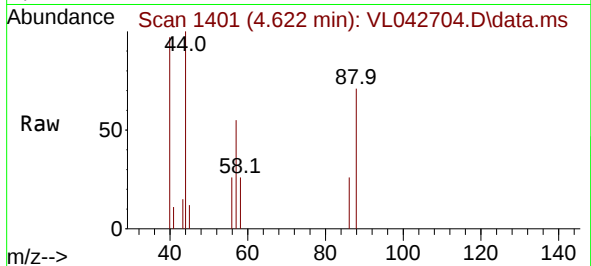




#40
1,4-Dioxane
Concen: 0.043 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.019 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

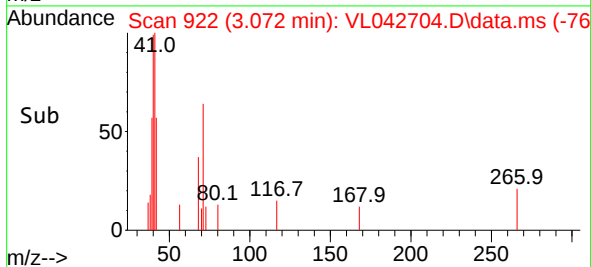
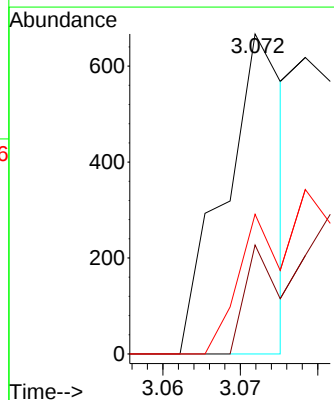
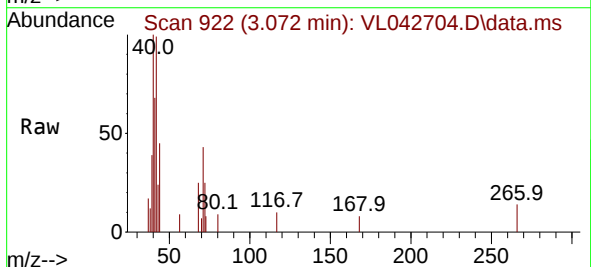
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

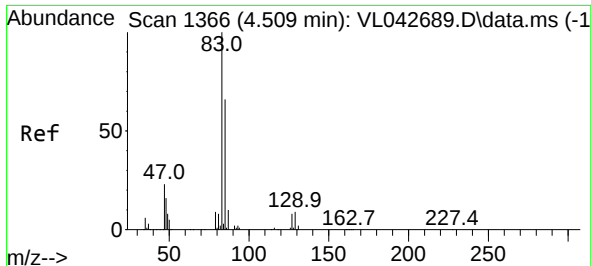
Tgt Ion: 88 Resp: 173
Ion Ratio Lower Upper
88 100
58 17.9 62.1 93.1#
43 67.1 26.2 39.2#
57 0.0 0.0 0.0



#41
Tetrahydrofuran
Concen: 0.034 ppbv
RT: 3.072 min Scan# 922
Delta R.T. 0.007 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 42 Resp: 359
Ion Ratio Lower Upper
42 100
72 0.0 28.2 42.4#
71 0.0 25.4 38.0#

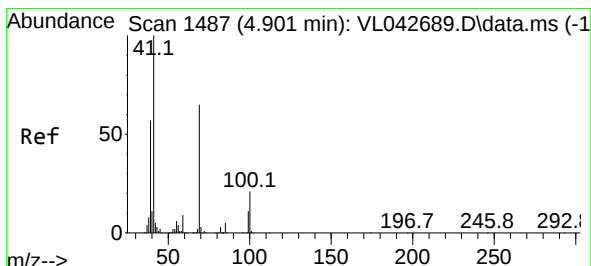
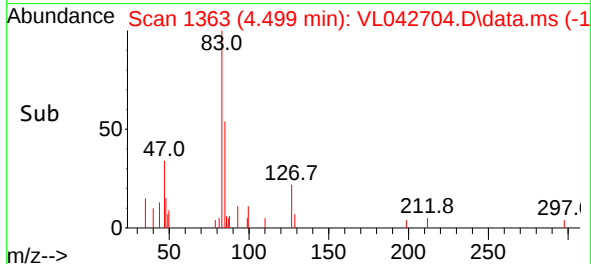
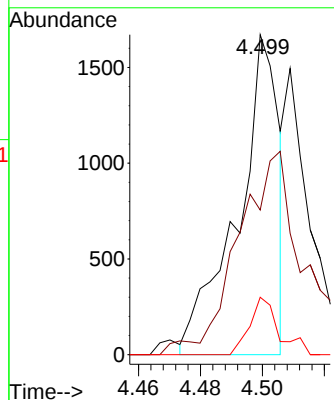
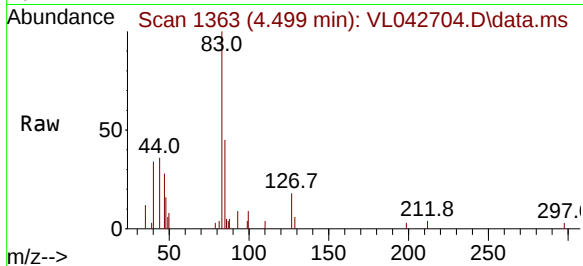




#42
Bromodichloromethane
Concen: 0.078 ppbv
RT: 4.499 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

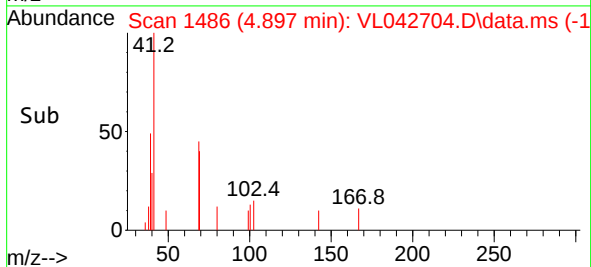
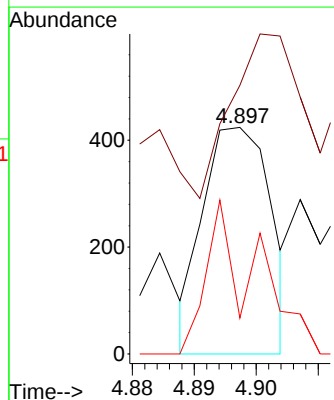
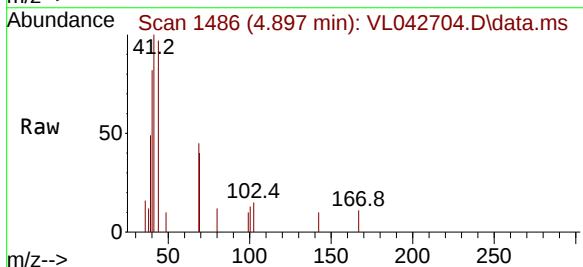
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

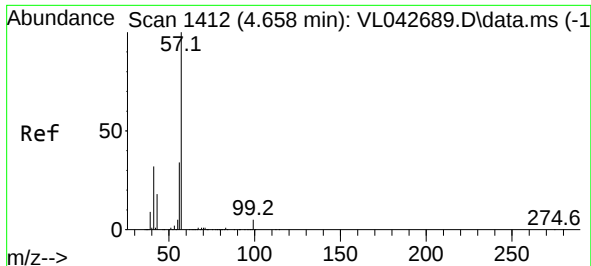
Tgt Ion: 83 Resp: 1549
Ion Ratio Lower Upper
83 100
85 42.2 52.5 78.7#
127 18.5 6.1 9.1#



#43
Methyl Methacrylate
Concen: 0.038 ppbv
RT: 4.897 min Scan# 1486
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 69 Resp: 323
Ion Ratio Lower Upper
69 100
41 401.9 125.4 188.2#
100 67.5 26.4 39.6#

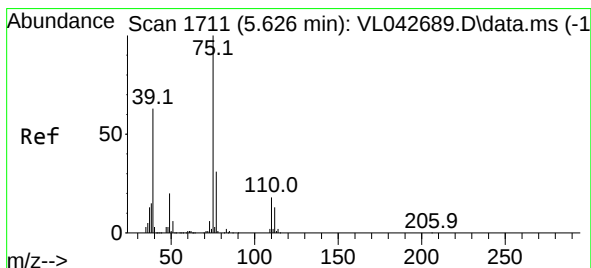
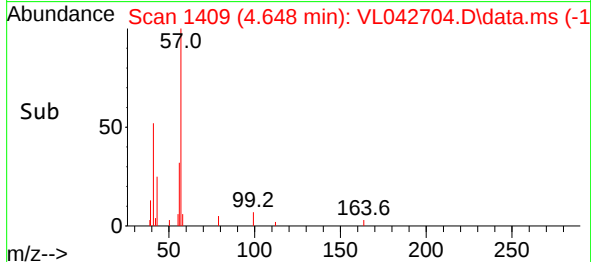
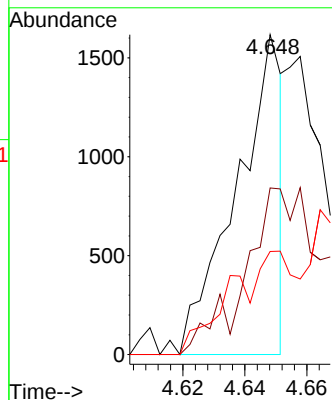
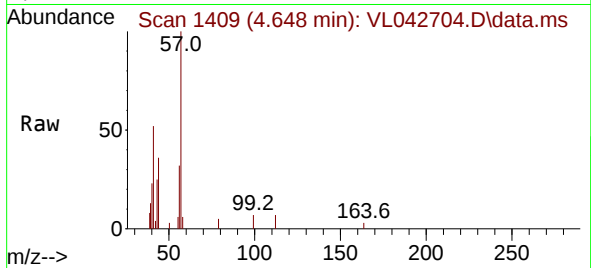




#44
2,2,4-Trimethylpentane
Concen: 0.037 ppbv
RT: 4.648 min Scan# 1412
Delta R.T. -0.010 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

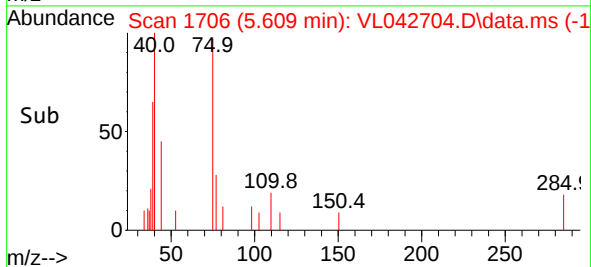
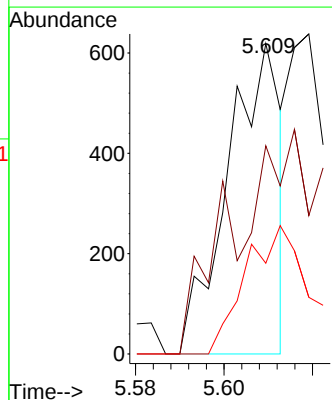
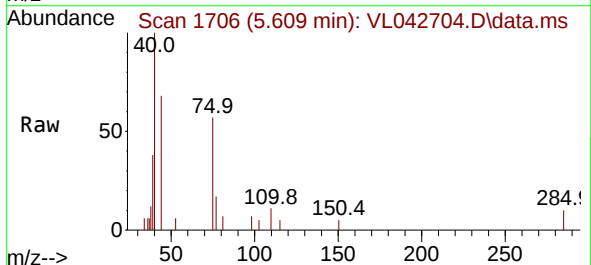
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

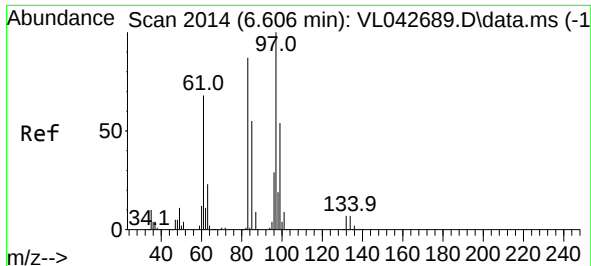
Tgt Ion: 57 Resp: 1645
Ion Ratio Lower Upper
57 100
41 0.0 25.2 37.8#
56 0.0 26.3 39.5#



#46
cis-1,3-Dichloropropene
Concen: 0.042 ppbv
RT: 5.609 min Scan# 1706
Delta R.T. -0.016 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 75 Resp: 516
Ion Ratio Lower Upper
75 100
39 67.0 50.6 75.8
77 29.2 24.8 37.2





#47

1,1,2-Trichloroethane

Concen: 0.058 ppbv

RT: 6.603 min Scan# 2014

Delta R.T. -0.003 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2025

Tgt Ion: 97 Resp: 585

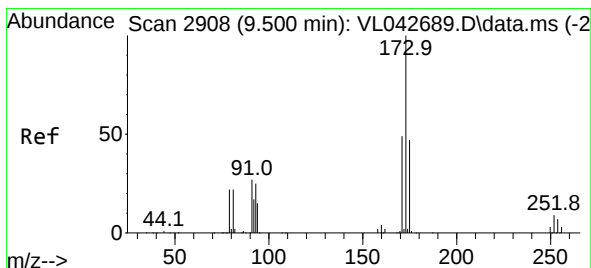
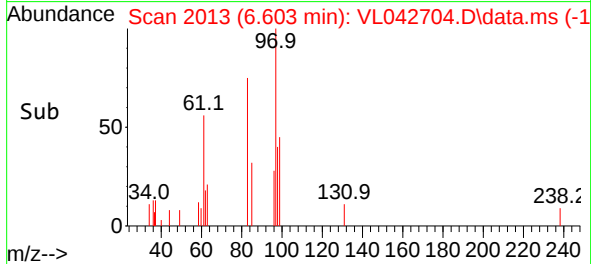
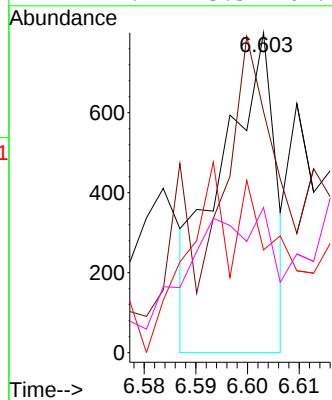
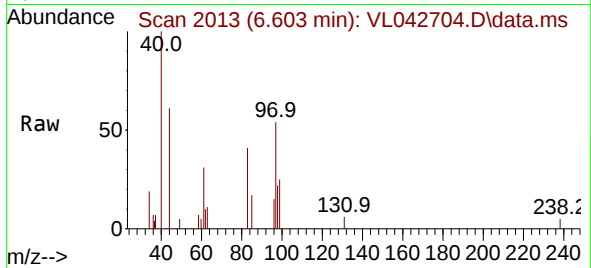
Ion Ratio Lower Upper

97 100

83 37.3 69.3 103.9#

85 6.7 43.7 65.5#

99 44.4 43.3 64.9



#49

Bromoform

Concen: 0.092 ppbv

RT: 9.493 min Scan# 2906

Delta R.T. -0.006 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

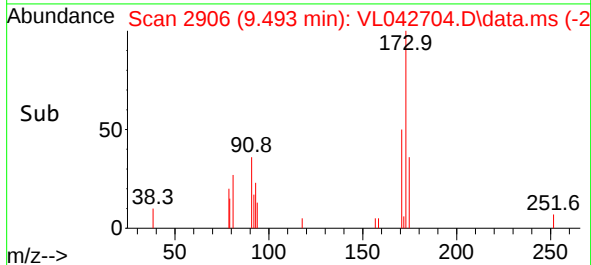
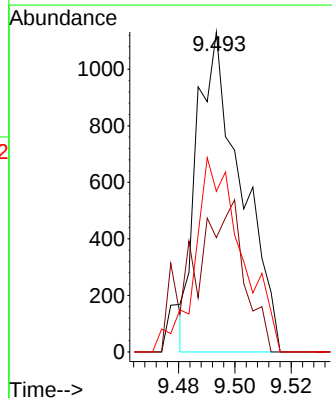
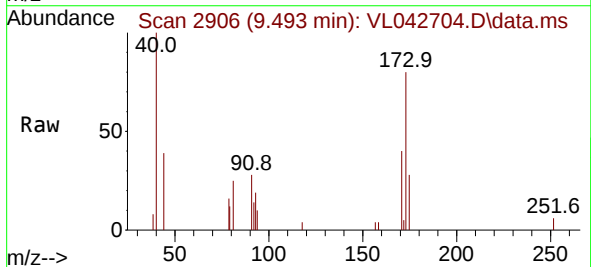
Tgt Ion: 173 Resp: 1232

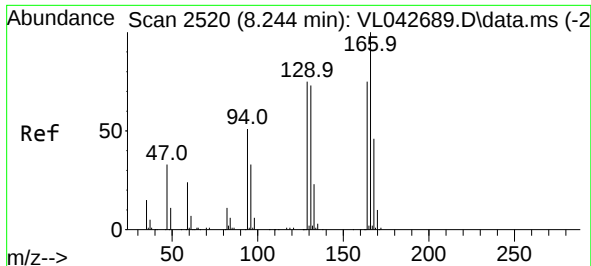
Ion Ratio Lower Upper

173 100

175 54.7 38.6 57.8

171 64.6 40.3 60.5#

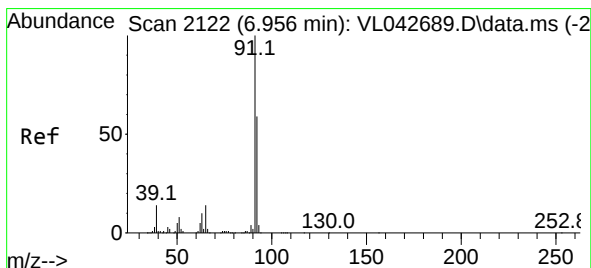
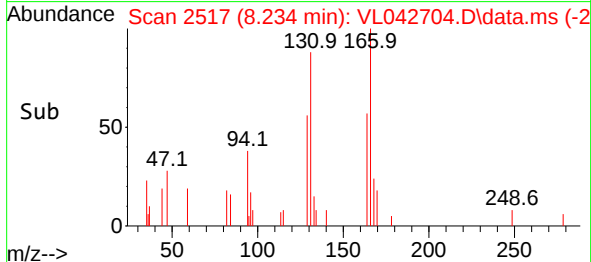
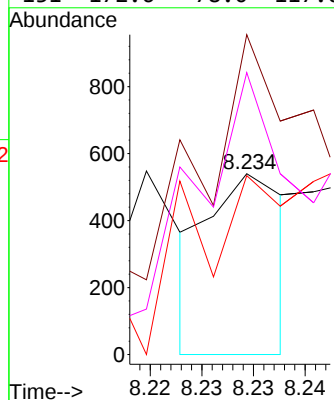
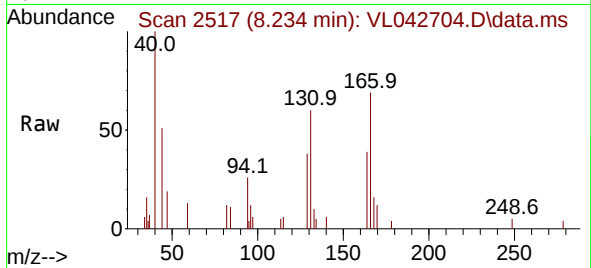




#52
Tetrachloroethene
Concen: 0.032 ppbv
RT: 8.234 min Scan# 2117
Delta R.T. -0.010 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

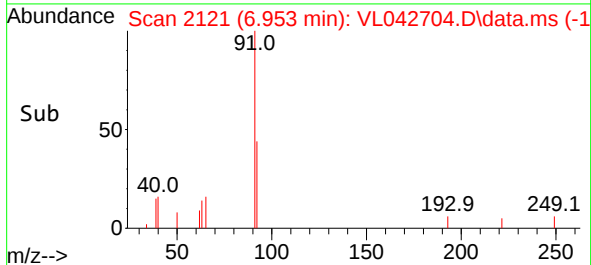
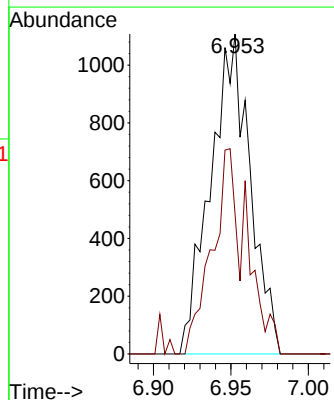
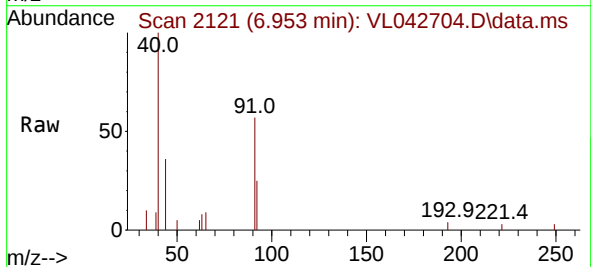
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

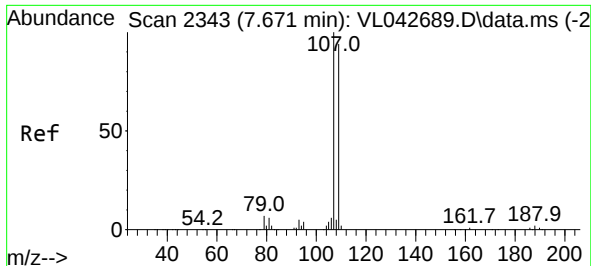
Tgt Ion:164 Resp: 278
Ion Ratio Lower Upper
164 100
166 179.4 106.6 160.0#
129 52.0 79.8 119.6#
131 172.6 78.0 117.0#



#53
Toluene
Concen: 0.080 ppbv
RT: 6.953 min Scan# 2121
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 91 Resp: 1976
Ion Ratio Lower Upper
91 100
92 57.2 47.4 71.2

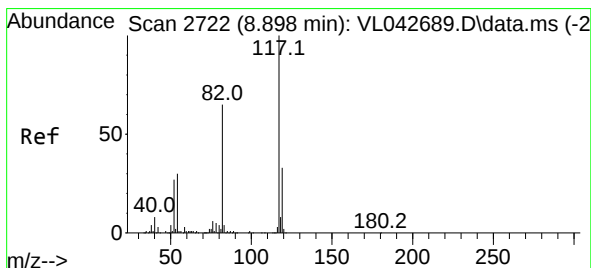
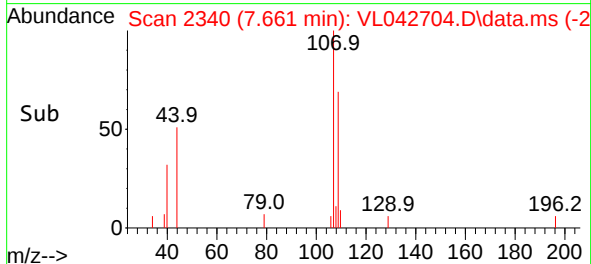
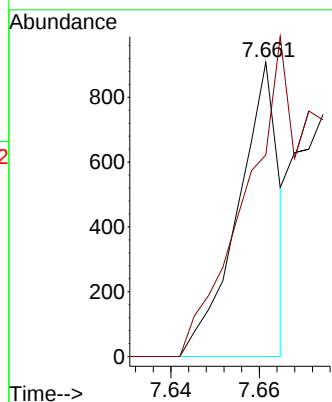
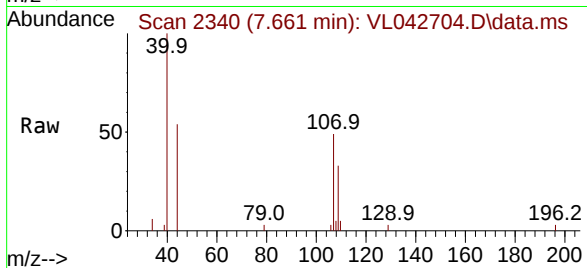




#54
1,2-Dibromoethane
Concen: 0.041 ppbv
RT: 7.661 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

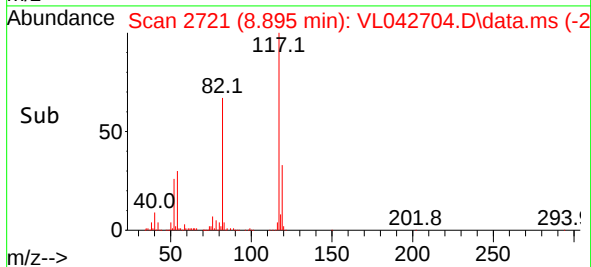
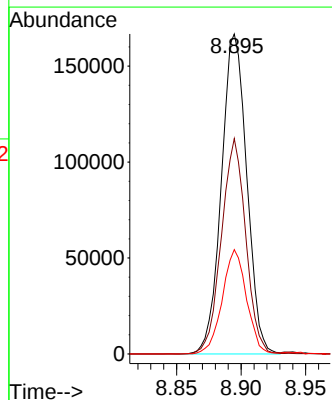
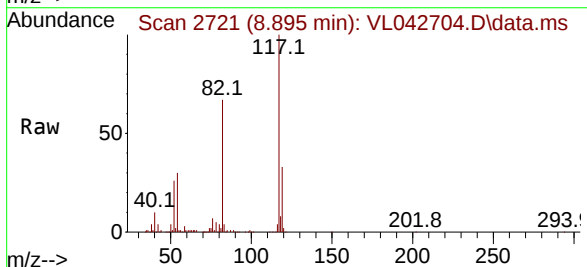
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

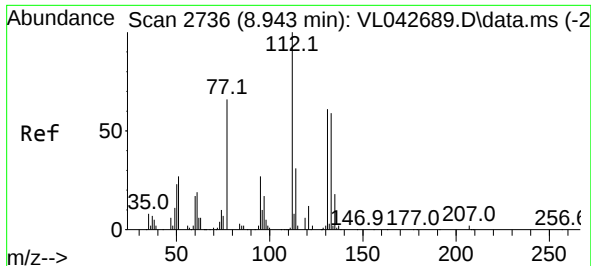
Tgt Ion:107 Resp: 583
Ion Ratio Lower Upper
107 100
109 77.9 74.8 112.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion:117 Resp: 227621
Ion Ratio Lower Upper
117 100
82 64.7 53.4 80.2
119 31.7 26.6 39.8

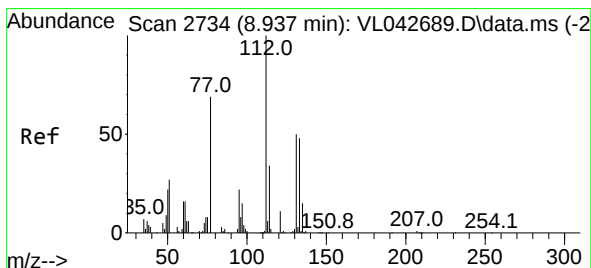
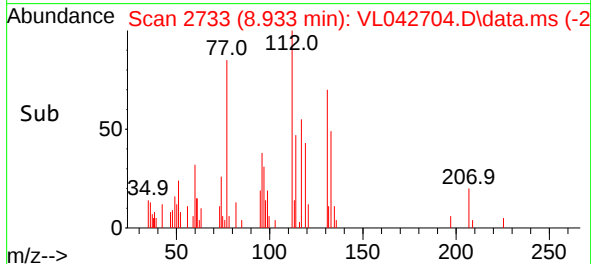
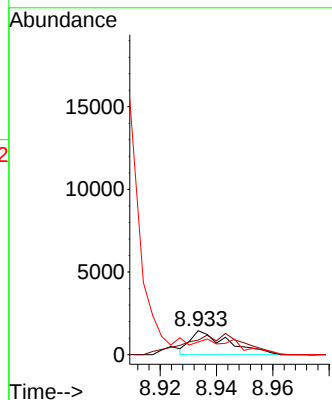
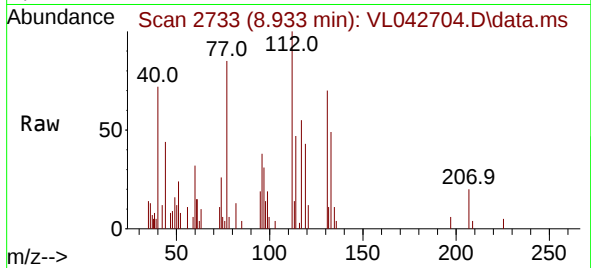




#56
1,1,1,2-Tetrachloroethane
Concen: 0.110 ppbv
RT: 8.933 min Scan# 2733
Delta R.T. -0.010 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

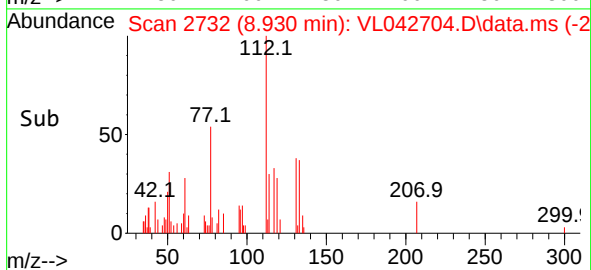
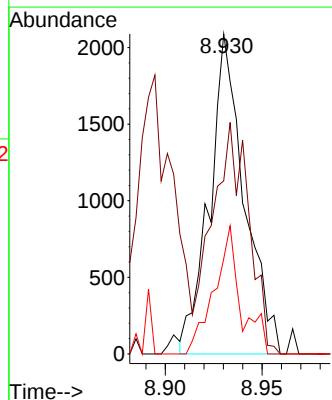
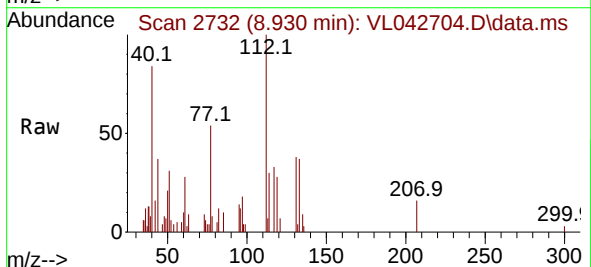
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

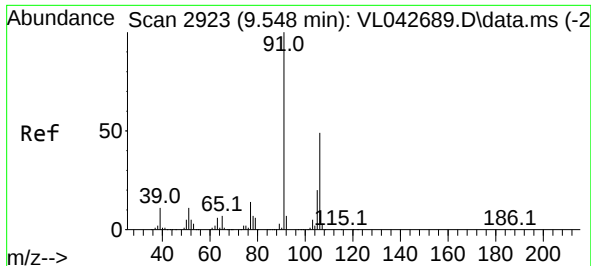
Tgt Ion:131 Resp: 1359
Ion Ratio Lower Upper
131 100
133 131.0 77.3 115.9#
119 0.0 52.6 78.8#



#57
Chlorobenzene
Concen: 0.115 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. -0.006 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion:112 Resp: 2616
Ion Ratio Lower Upper
112 100
77 54.1 56.2 84.4#
114 29.7 30.2 37.0#





#59

m/p-Xylene

Concen: 0.051 ppbv

RT: 9.545 min Scan# 2923

Delta R.T. -0.003 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Instrument :

MSVOA_L

ClientSampleId :

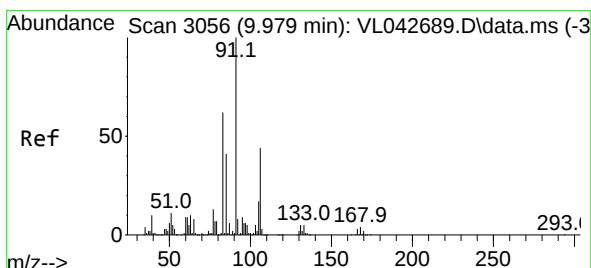
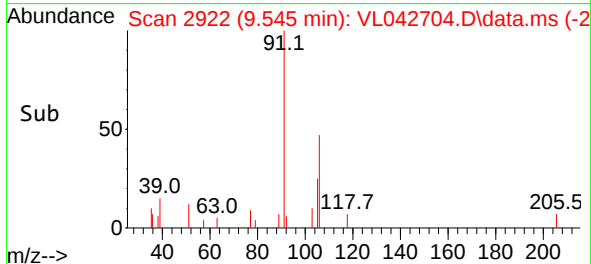
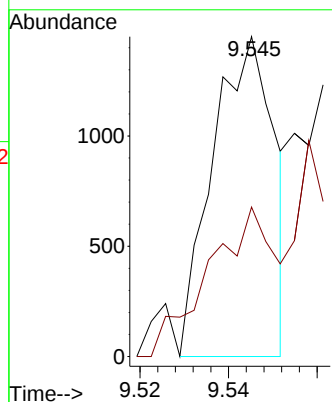
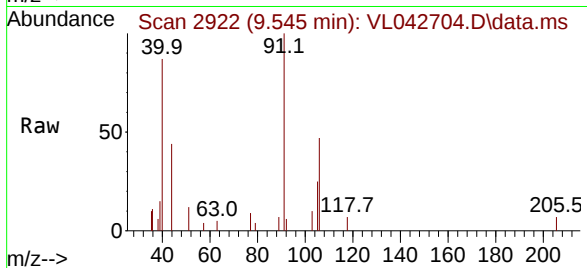
LOQ-AIR-02-QT2-2025

Tgt Ion: 91 Resp: 1406

Ion Ratio Lower Upper

91 100

106 0.0 37.6 56.4#



#60

o-Xylene

Concen: 0.033 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.000 min

Lab File: VL042704.D

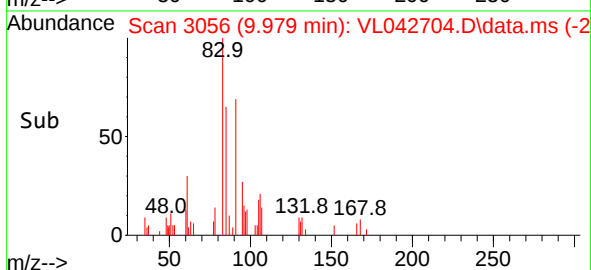
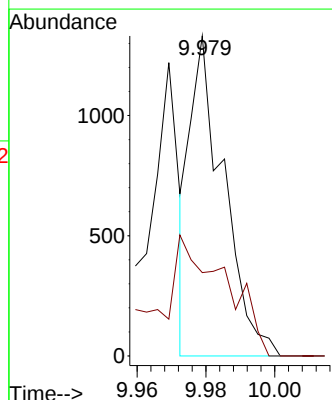
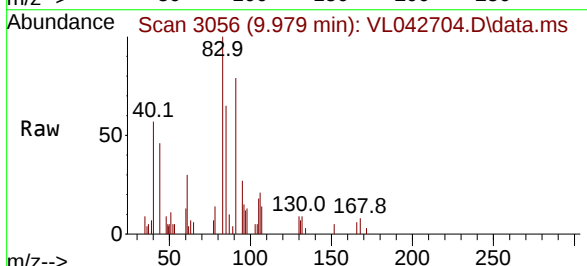
Acq: 03 Jul 2025 12:43

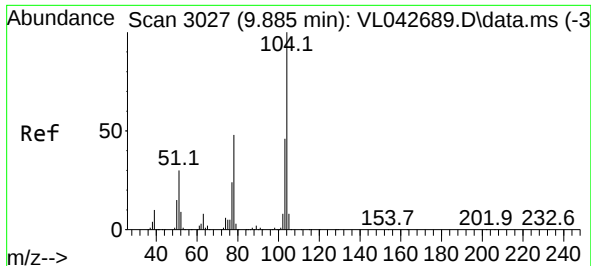
Tgt Ion: 91 Resp: 905

Ion Ratio Lower Upper

91 100

106 0.0 22.8 68.4#

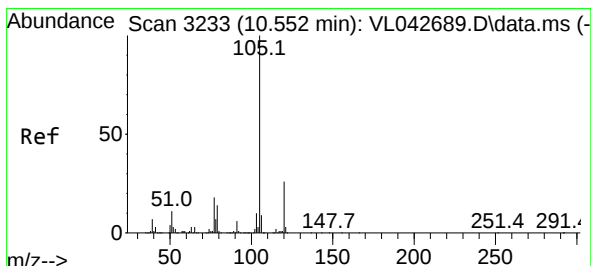
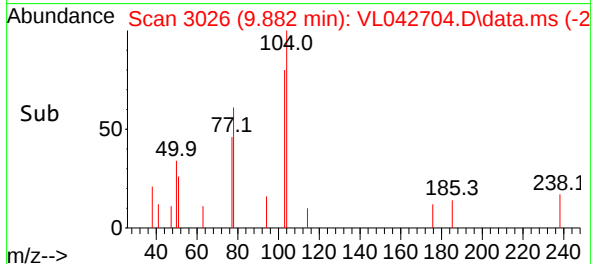
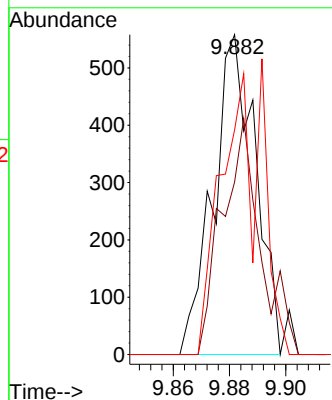
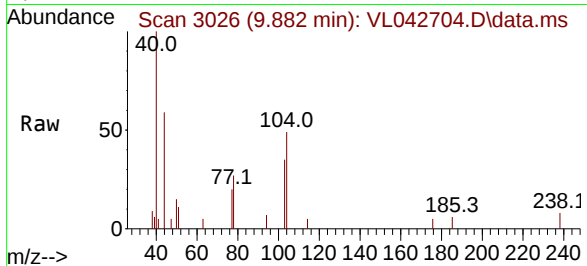




#61
Styrene
Concen: 0.054 ppbv
RT: 9.882 min Scan# 3027
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

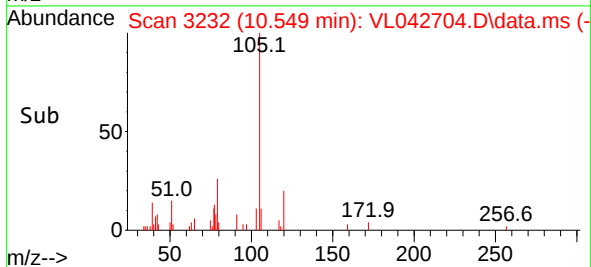
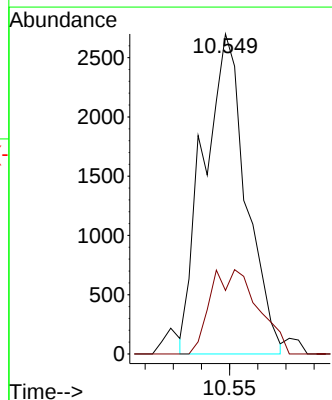
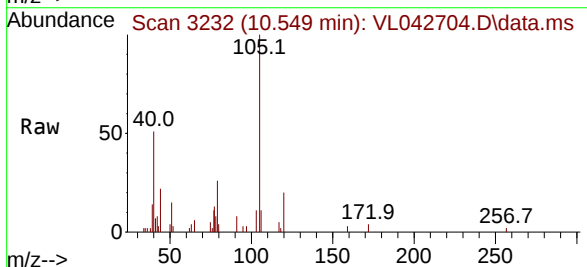
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

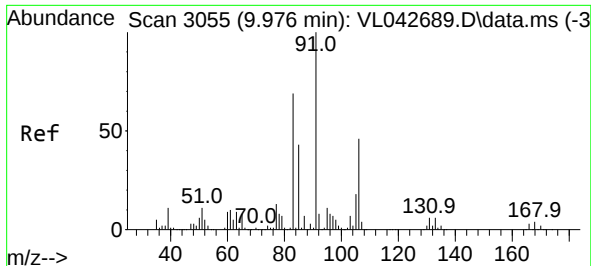
Tgt Ion:104 Resp: 580
Ion Ratio Lower Upper
104 100
78 66.9 39.0 58.6#
103 85.2 37.4 56.0#



#62
Isopropylbenzene
Concen: 0.070 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion:105 Resp: 2849
Ion Ratio Lower Upper
105 100
120 29.4 20.6 31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.107 ppbv

RT: 9.979 min Scan# 3055

Delta R.T. 0.003 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2025

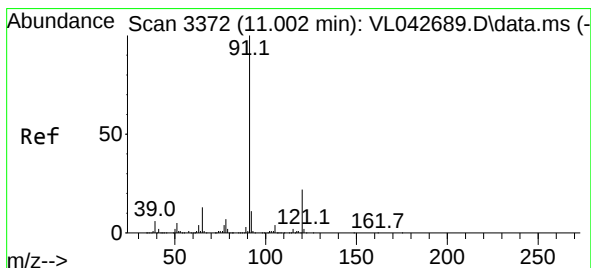
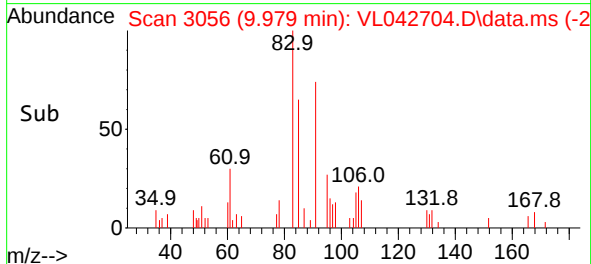
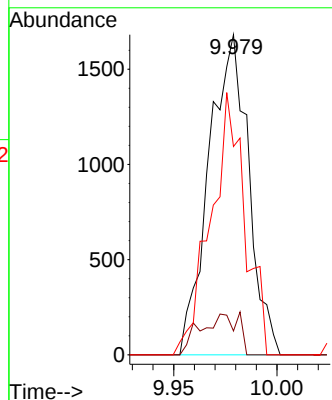
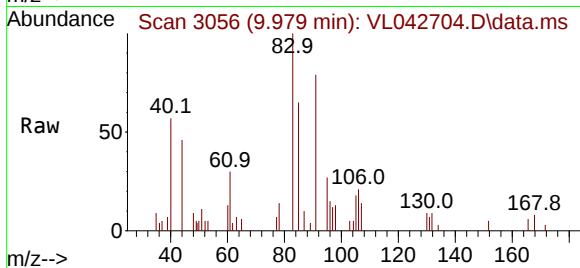
Tgt Ion: 83 Resp: 2242

Ion Ratio Lower Upper

83 100

131 12.1 4.5 13.4

85 70.5 31.5 94.5



#64

n-propylbenzene

Concen: 0.050 ppbv

RT: 11.002 min Scan# 3372

Delta R.T. 0.000 min

Lab File: VL042704.D

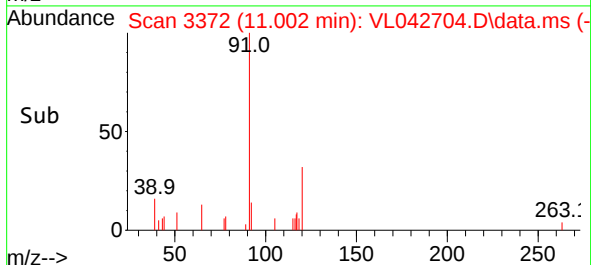
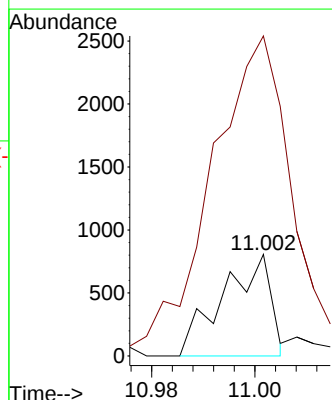
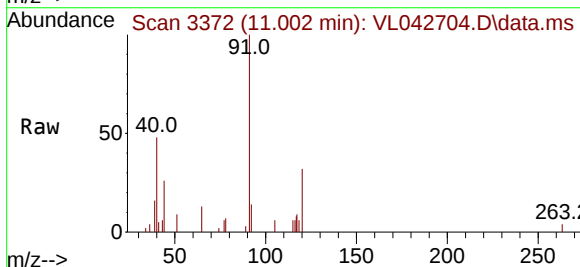
Acq: 03 Jul 2025 12:43

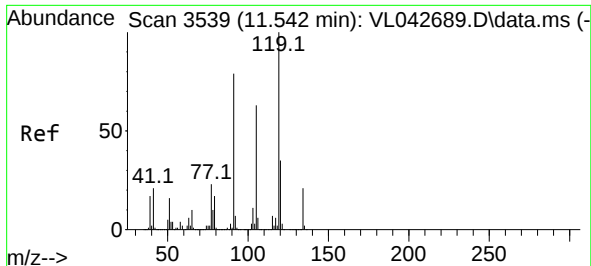
Tgt Ion: 120 Resp: 527

Ion Ratio Lower Upper

120 100

91 525.4 377.8 566.8

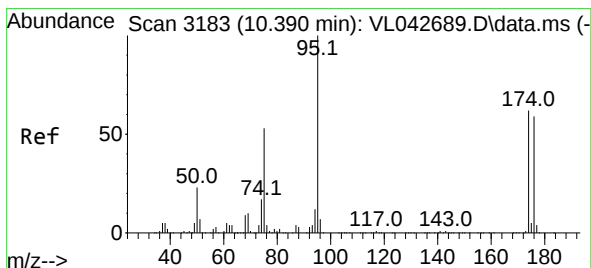
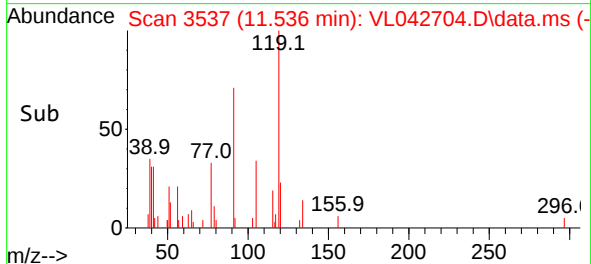
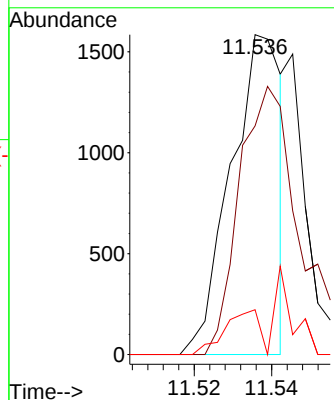
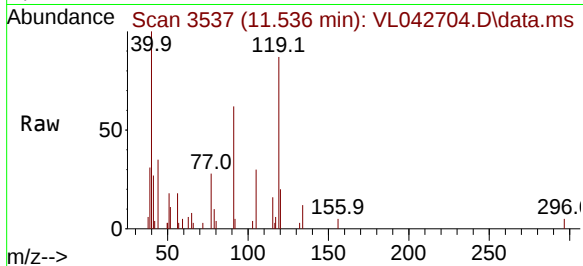




#65
tert-Butylbenzene
Concen: 0.041 ppbv
RT: 11.536 min Scan# 3182
Delta R.T. -0.006 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

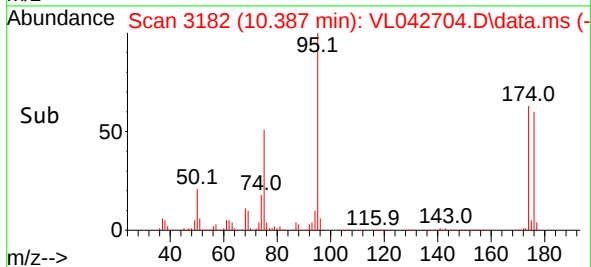
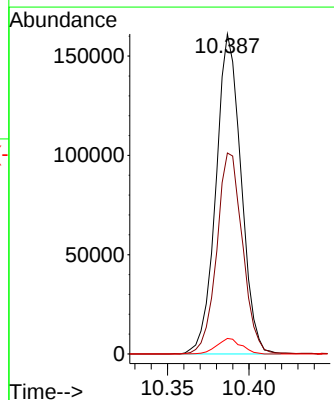
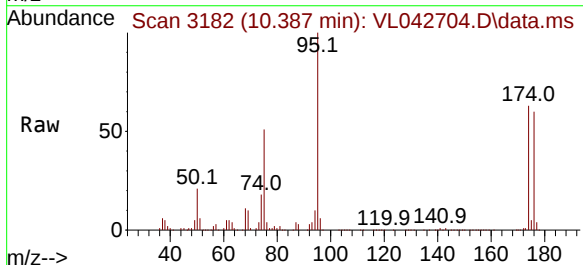
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

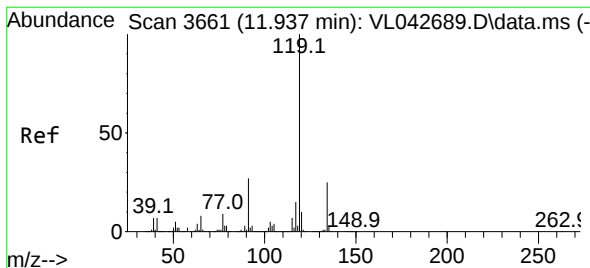
Tgt Ion:119 Resp: 1435
Ion Ratio Lower Upper
119 100
91 100.0 62.6 93.8#
134 19.2 16.9 25.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.872 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 95 Resp: 172840
Ion Ratio Lower Upper
95 100
174 64.8 51.2 76.8
175 4.7 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.038 ppbv

RT: 11.934 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

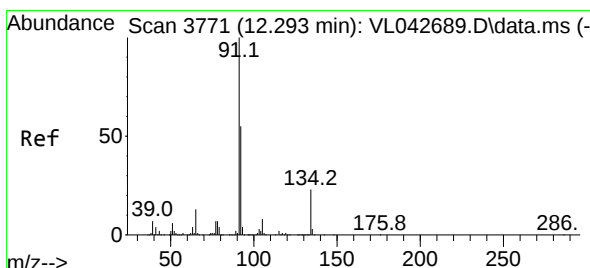
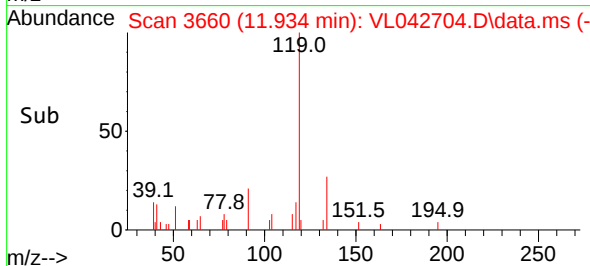
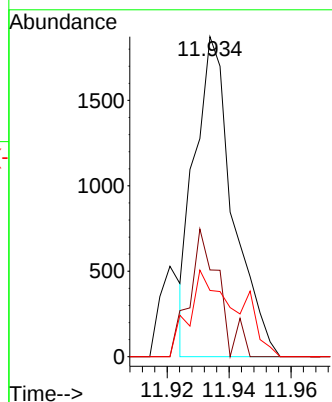
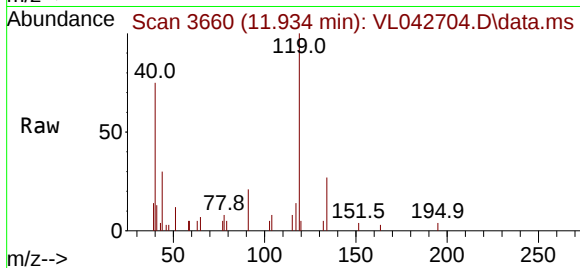
Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2025

Tgt Ion:	119	Resp:	1605
Ion	Ratio	Lower	Upper
119	100		
134	30.8	20.6	31.0
91	33.6	21.4	32.2#



#70

n-Butylbenzene

Concen: 0.040 ppbv

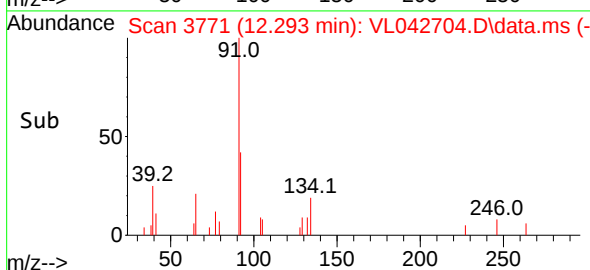
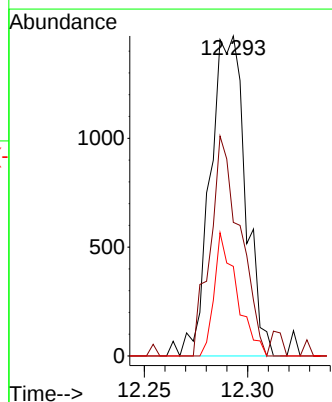
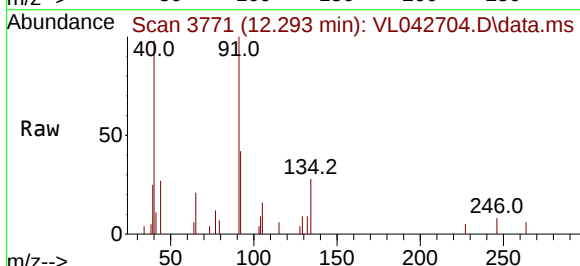
RT: 12.293 min Scan# 3771

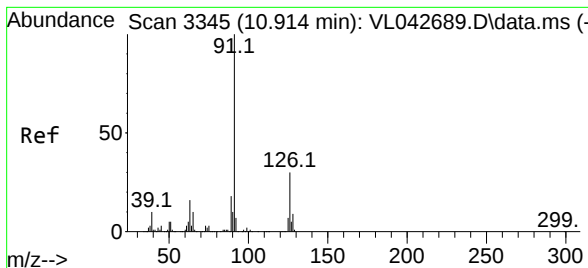
Delta R.T. 0.000 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Tgt Ion:	91	Resp:	1737
Ion	Ratio	Lower	Upper
91	100		
92	62.1	44.2	66.2
134	25.0	18.6	27.8

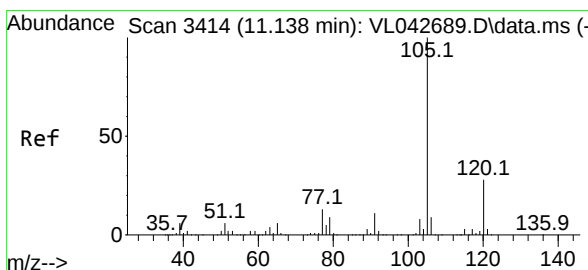
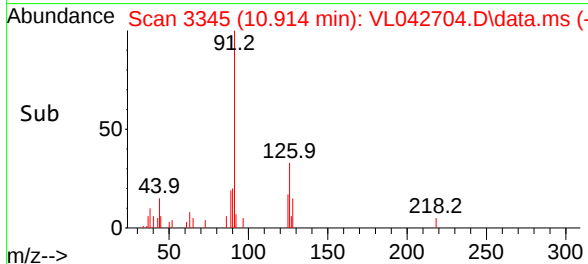
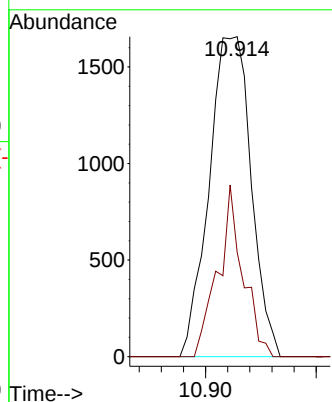
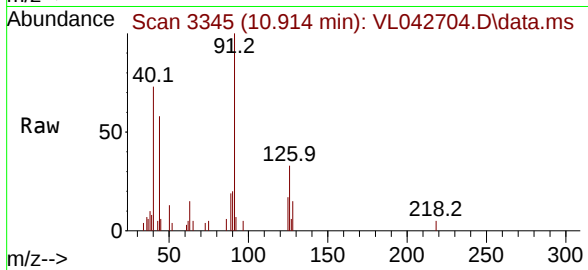




#71
2-Chlorotoluene
Concen: 0.072 ppbv
RT: 10.914 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

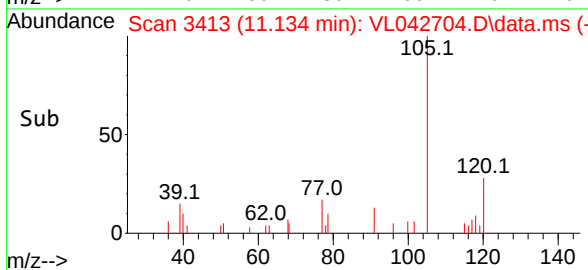
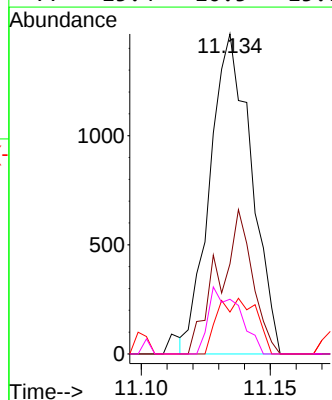
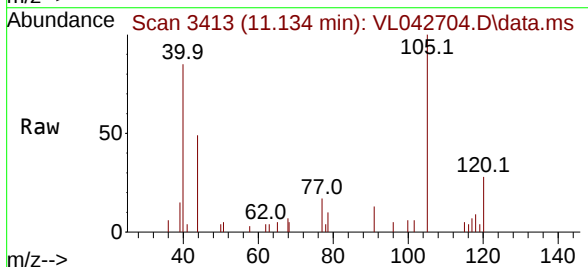
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

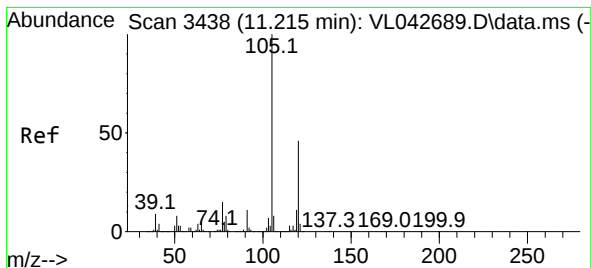
Tgt Ion: 91 Resp: 2189
Ion Ratio Lower Upper
91 100
126 31.7 11.8 47.4



#72
4-Ethyltoluene
Concen: 0.049 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion: 105 Resp: 1638
Ion Ratio Lower Upper
105 100
120 36.8 23.8 35.6#
91 16.2 9.7 14.5#
77 15.4 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 0.046 ppbv

RT: 11.215 min Scan# 3438

Delta R.T. 0.000 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Instrument :

MSVOA_L

ClientSampleId :

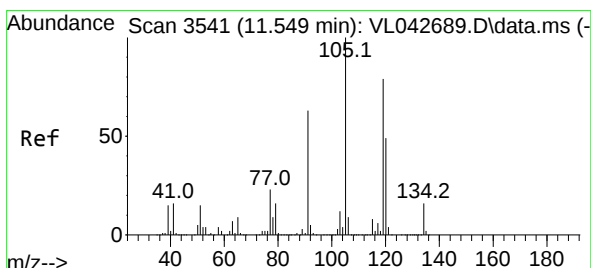
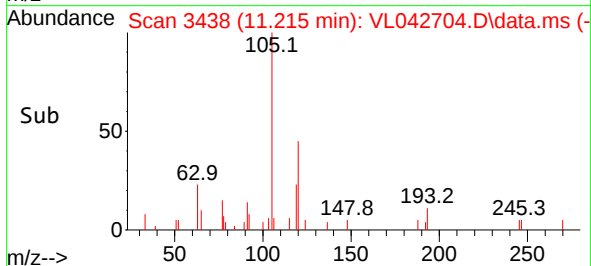
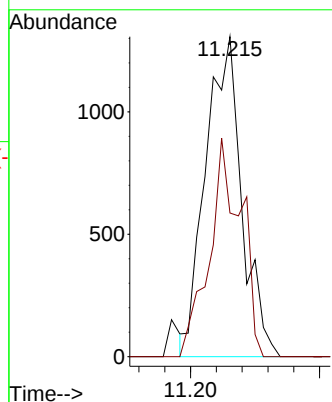
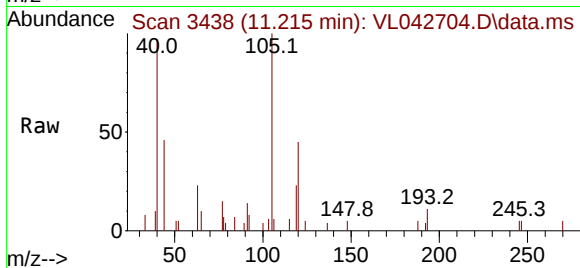
LOQ-AIR-02-QT2-2025

Tgt Ion:105 Resp: 1270

Ion Ratio Lower Upper

105 100

120 44.9 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 0.045 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. -0.003 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Tgt Ion:105 Resp: 1418

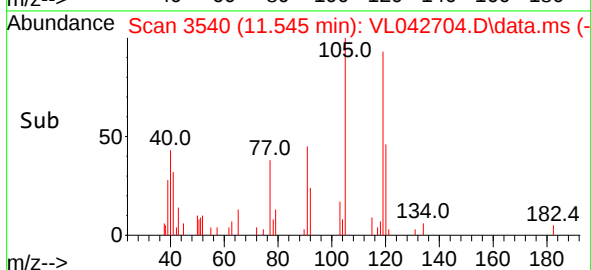
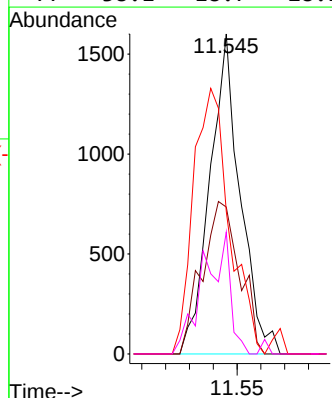
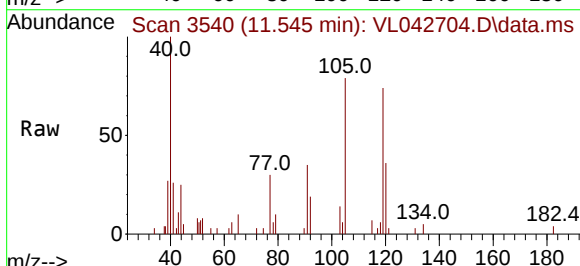
Ion Ratio Lower Upper

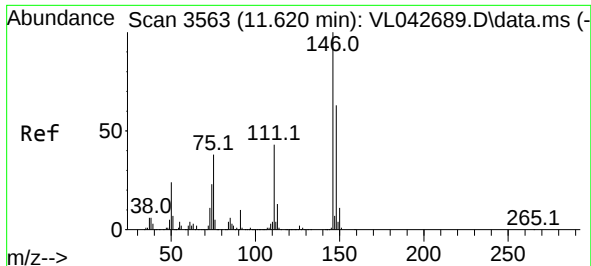
105 100

120 45.9 39.6 59.4

91 36.9 51.0 76.6#

77 38.1 18.7 28.1#

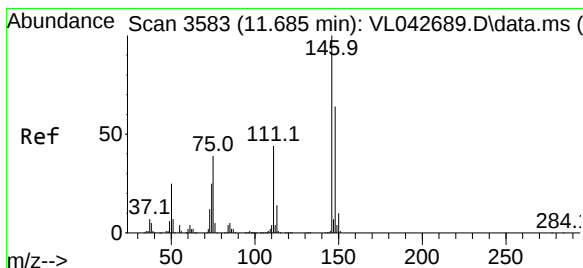
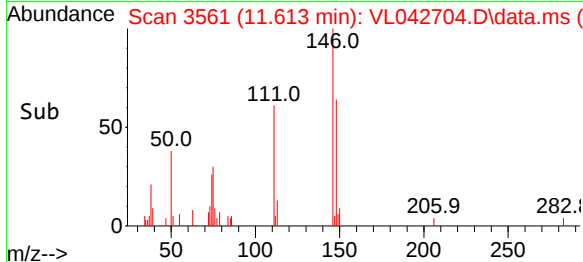
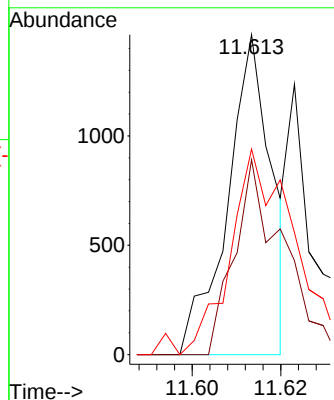
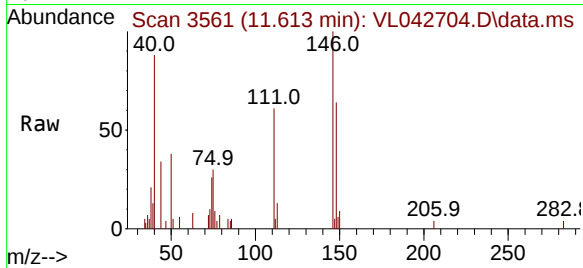




#75
1,3-Dichlorobenzene
Concen: 0.045 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.006 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

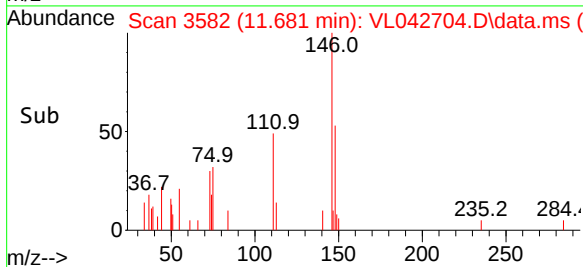
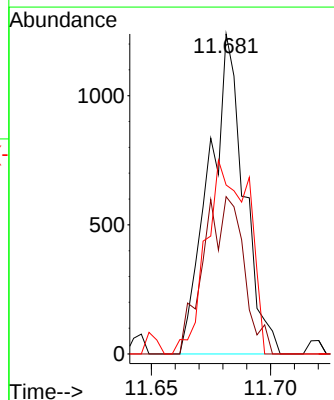
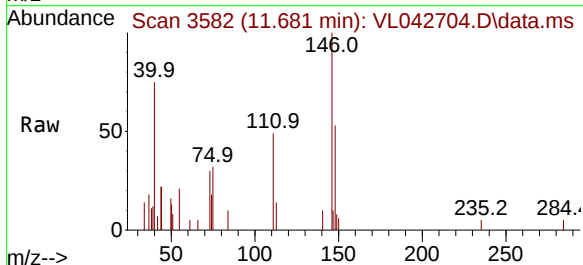
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2025

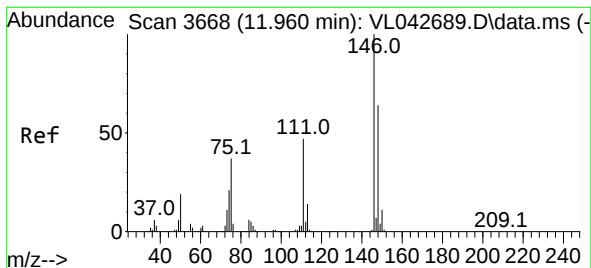
Tgt Ion:146 Resp: 1016
Ion Ratio Lower Upper
146 100
111 66.8 21.6 65.0#
148 95.7 31.6 94.7#



#76
1,4-Dichlorobenzene
Concen: 0.060 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. -0.003 min
Lab File: VL042704.D
Acq: 03 Jul 2025 12:43

Tgt Ion:146 Resp: 1265
Ion Ratio Lower Upper
146 100
111 57.0 21.4 64.3
148 73.0 31.8 95.4





#77

1,2-Dichlorobenzene

Concen: 0.070 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. -0.006 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2025

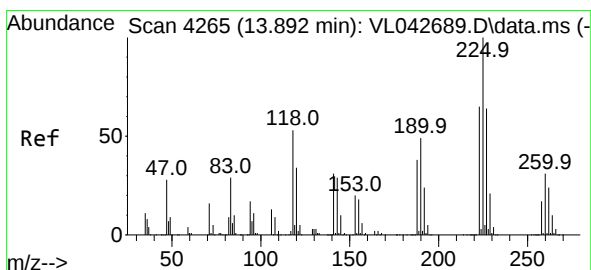
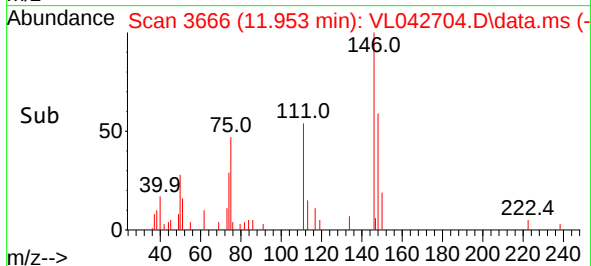
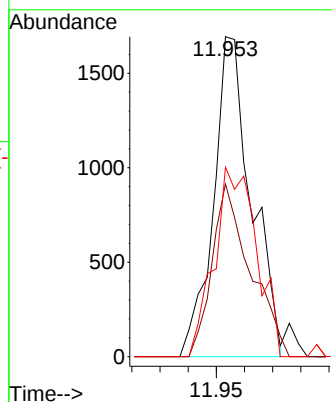
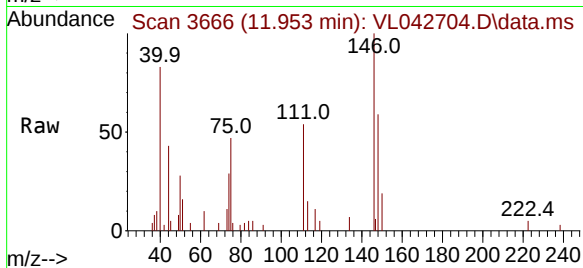
Tgt Ion:146 Resp: 1590

Ion Ratio Lower Upper

146 100

111 54.2 22.9 68.8

148 66.7 31.9 95.7



#78

Hexachloro-1,3-Butadiene

Concen: 0.121 ppbv

RT: 13.889 min Scan# 4264

Delta R.T. -0.003 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

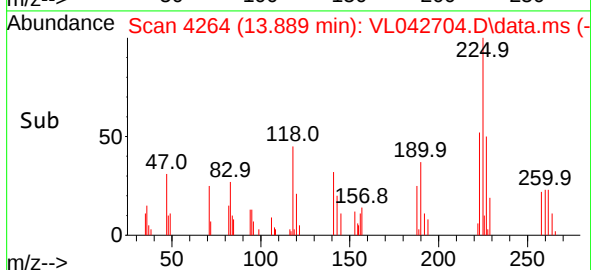
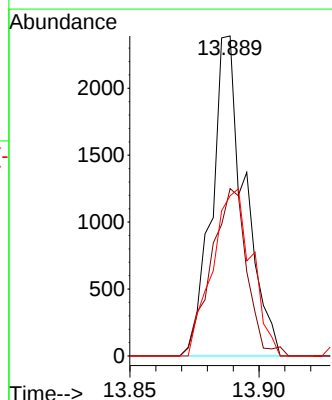
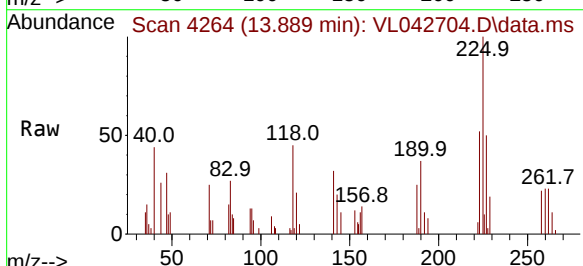
Tgt Ion:225 Resp: 2127

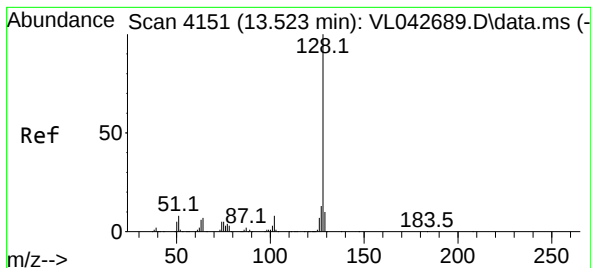
Ion Ratio Lower Upper

225 100

223 56.7 50.5 75.7

227 62.3 50.0 75.0





#79

Naphthalene

Concen: 0.032 ppbv

RT: 13.520 min Scan# 4151

Delta R.T. -0.003 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

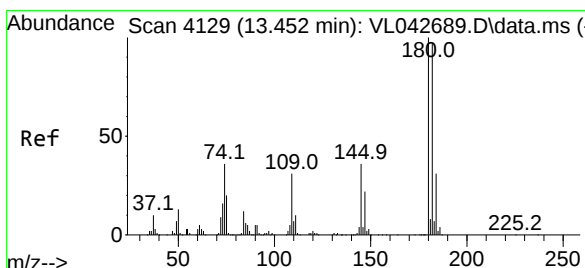
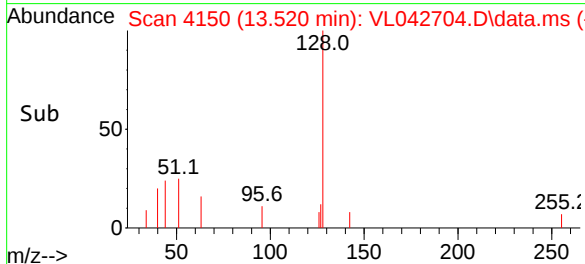
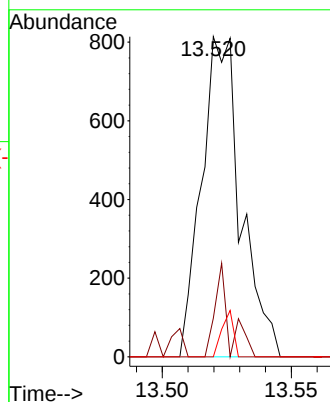
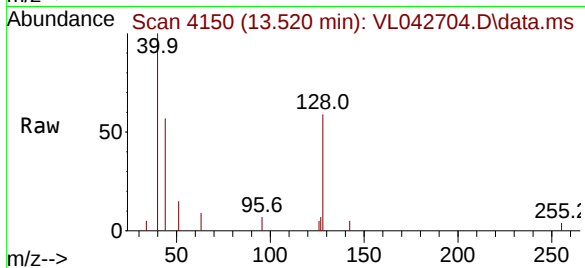
Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion:128	Resp:	859
Ion Ratio	Lower	Upper
128	100	
127	12.0	10.2 15.4
129	0.0	8.2 12.2#



#81

1,2,4-Trichlorobenzene

Concen: 0.033 ppbv

RT: 13.449 min Scan# 4128

Delta R.T. -0.003 min

Lab File: VL042704.D

Acq: 03 Jul 2025 12:43

Tgt Ion:180	Resp:	517
Ion Ratio	Lower	Upper
180	100	
182	134.0	76.7 115.1#
184	22.8	24.4 36.6#

