

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072425\
 Data File : VL042762.D
 Acq On : 24 Jul 2025 13:17
 Operator : SY/MD
 Sample : Q2671-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 25 01:25:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	154296	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	419540	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	381810	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	306627	10.141	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9247	0.453	ppbv	96
3) Chlorodifluoromethane	1.466	51	1559321	58.676	ppbv #	58
4) Chloromethane	1.528	50	1485	0.180	ppbv #	80
6) Bromomethane	1.667	94	304	0.096	ppbv	82
7) Chloroethane	1.466	64	102106	32.408	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	570	0.034	ppbv	90
9) Propene	1.557	41	280515	29.043	ppbv	91
10) Heptane	4.978	43	9231	0.354	ppbv #	50
11) Trichlorofluoromethane	1.878	101	6222	0.296	ppbv	89
12) 1,1,2-Trichlorotrifluo...	2.140	101	1074	0.067	ppbv #	66
13) Ethanol	1.719	45	462583	656.614	ppbv	89
15) Acetone	1.832	43	463947	21.776	ppbv	98
16) 1,3-Butadiene	1.599	39	25644	2.822	ppbv #	35
17) tert-Butyl alcohol	2.039	59	11264	0.586	ppbv #	88
18) 1,1-Dichloroethene	2.036	96	152	0.021	ppbv #	1
19) Isopropyl Alcohol	1.884	45	34879	3.081	ppbv #	1
20) Methylene Chloride	2.059	84	2857	0.426	ppbv	90
21) Allyl Chloride	2.039	41	4310	0.328	ppbv #	17
23) Vinyl Acetate	2.450	43	15385	0.596	ppbv #	86
25) Ethyl Acetate	2.826	43	44338	0.940	ppbv #	83
26) Hexane	2.826	57	49153	2.376	ppbv #	44
27) Carbon Disulfide	2.149	76	40051	2.261	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	909	0.093	ppbv #	1
29) Chloroform	2.845	83	645551	20.193	ppbv	97
30) Cyclohexane	3.852	84	773	0.044	ppbv #	1
31) cis-1,2-Dichloroethene	2.719	61	4361	0.205	ppbv #	89
32) 1,1,1-Trichloroethane	3.366	97	13146	0.395	ppbv	95
34) 2-Butanone	2.554	43	461666	15.535	ppbv	99
35) Carbon Tetrachloride	3.761	117	10371	0.333	ppbv	86
36) Benzene	3.651	78	10733	0.270	ppbv #	90
37) 1,2-Dichloroethane	3.218	62	2275	0.095	ppbv #	90
38) Trichloroethene	4.541	130	420946	22.037	ppbv	97
39) 1,2-Dichloropropane	3.955	63	106360	7.247	ppbv #	23
41) Tetrahydrofuran	3.052	42	687	0.045	ppbv #	25
42) Bromodichloromethane	4.483	83	4682	0.150	ppbv #	81
44) 2,2,4-Trimethylpentane	4.632	57	1960	0.030	ppbv #	1
51) 2-Hexanone	7.438	43	21380	0.739	ppbv #	92
52) Tetrachloroethene	8.221	164	329198	19.975	ppbv	98
53) Toluene	6.923	91	7882	0.185	ppbv #	48
58) Ethyl Benzene	9.351	91	4079	0.068	ppbv	97
59) m/p-Xylene	9.542	91	3642	0.076	ppbv #	30
60) o-Xylene	9.959	91	3034	0.063	ppbv #	44
61) Styrene	9.866	104	2858	0.141	ppbv	95

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 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

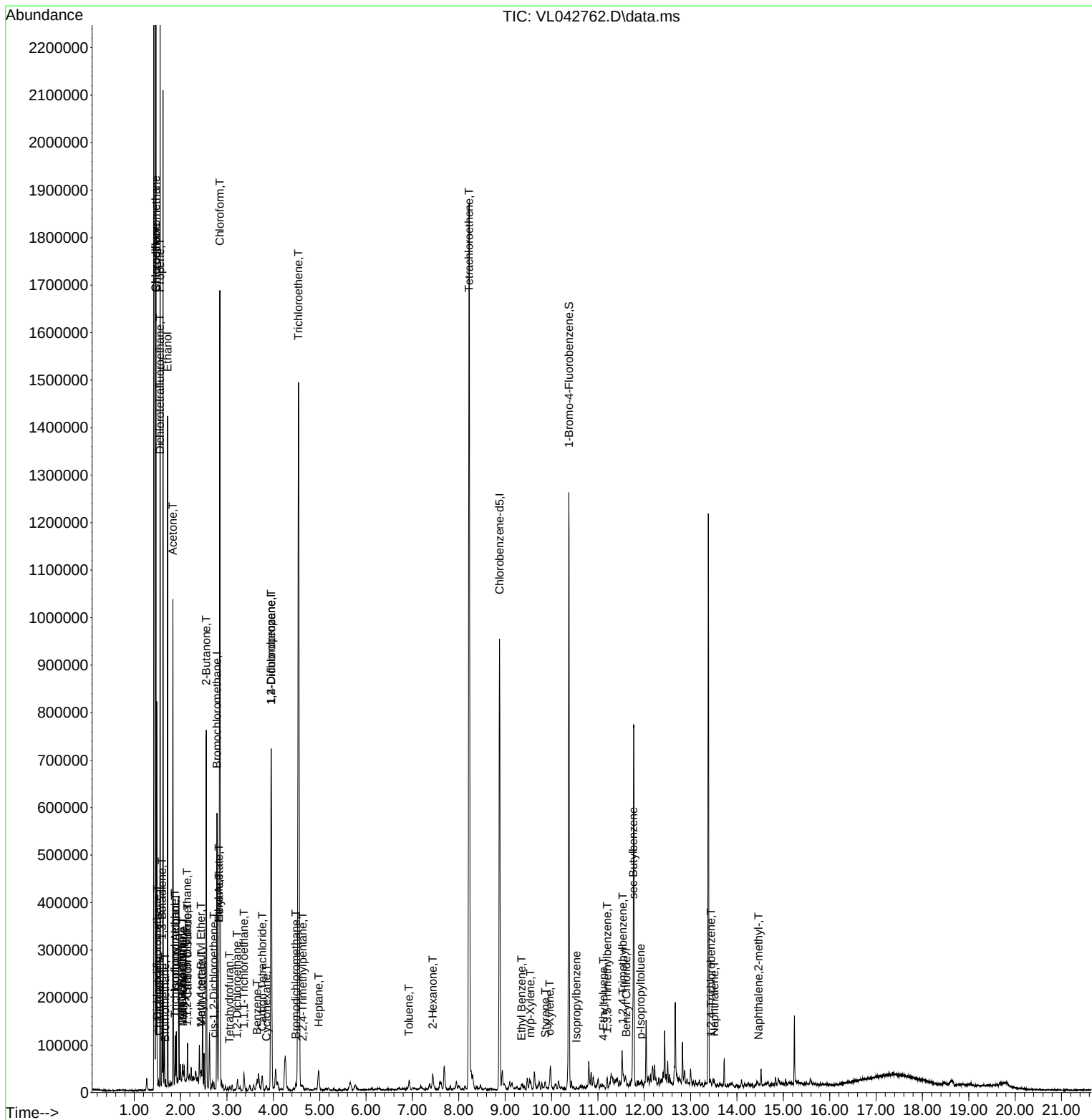
Quant Time: Jul 25 01:25:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

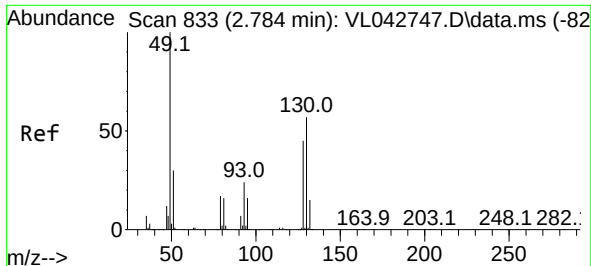
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

62) Isopropylbenzene	10.536	105	1611	0.023	ppbv #	84
66) Benzyl Chloride	11.613	91	170	0.033	ppbv #	1
67) sec-Butylbenzene	11.762	105	2221	0.025	ppbv #	1
69) p-Isopropyltoluene	11.921	119	1977	0.027	ppbv #	66
72) 4-Ethyltoluene	11.118	105	1240	0.022	ppbv #	43
73) 1,3,5-Trimethylbenzene	11.202	105	2074	0.044	ppbv #	76
74) 1,2,4-Trimethylbenzene	11.536	105	7139	0.138	ppbv #	54
79) Naphthalene	13.513	128	3165	0.489	ppbv #	95
80) Naphthalene,2-methyl-	14.465	142	1112	1.164	ppbv #	70
81) 1,2,4-Trichlorobenzene	13.439	180	554	0.452	ppbv #	59

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

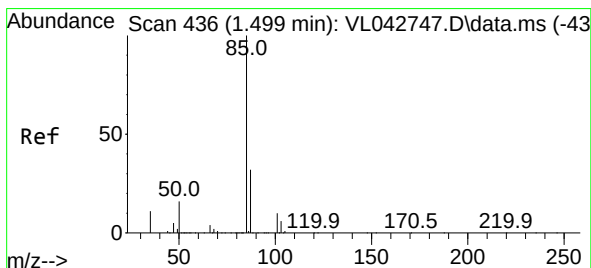
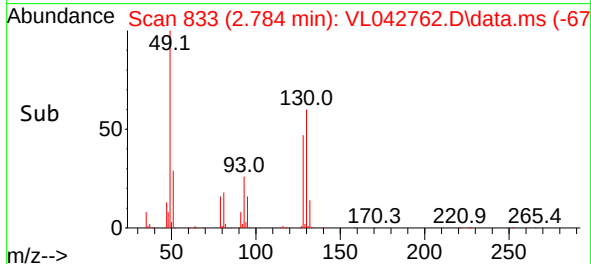
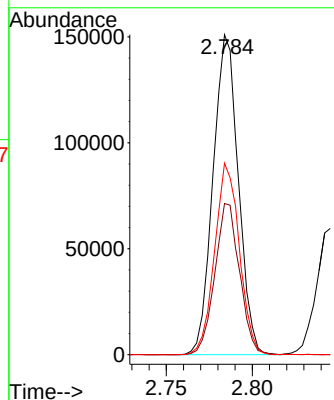
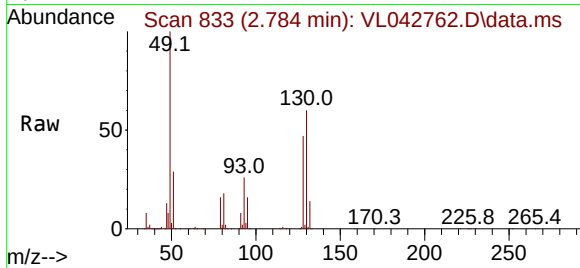




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

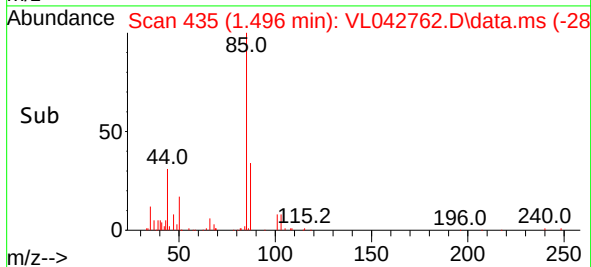
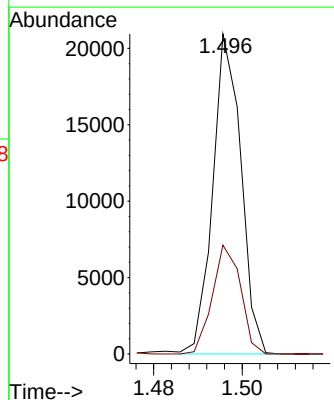
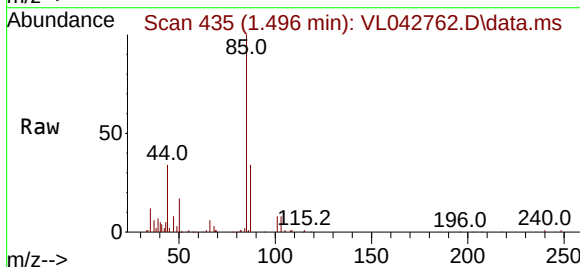
Instrument :
 MSVOA_L
 ClientSampleId :

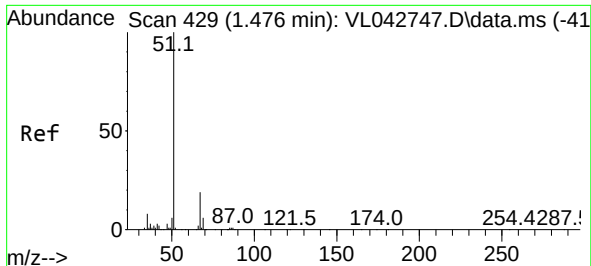
Tgt Ion: 49 Resp: 154296
 Ion Ratio Lower Upper
 49 100
 128 46.3 23.6 71.0
 130 58.5 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.453 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

Tgt Ion: 85 Resp: 9247
 Ion Ratio Lower Upper
 85 100
 87 34.0 25.4 38.2

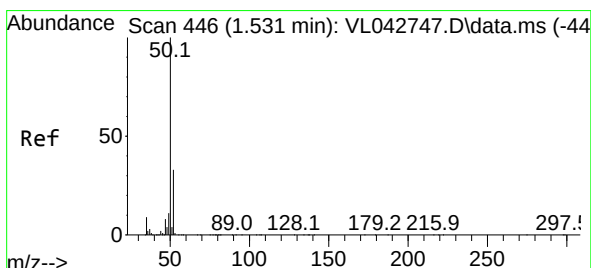
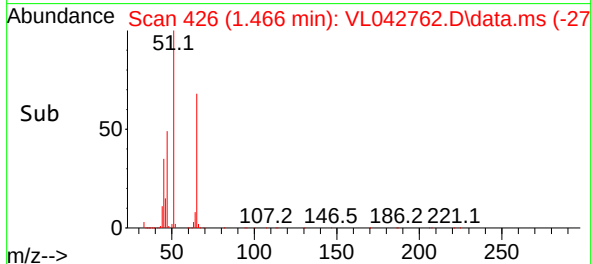
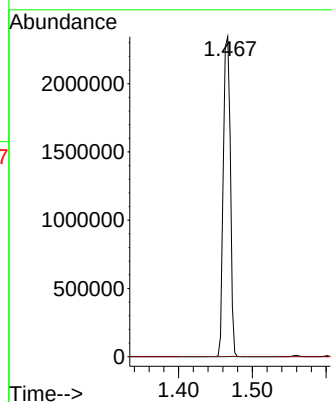
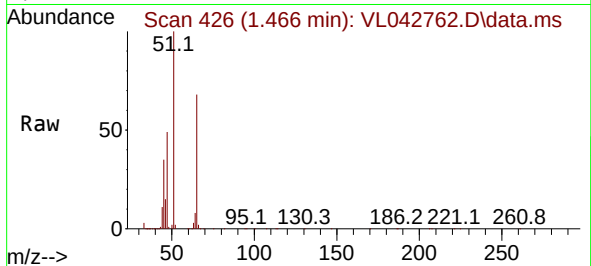




#3
Chlorodifluoromethane
Concen: 58.676 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

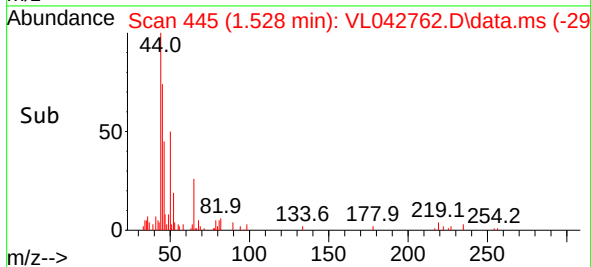
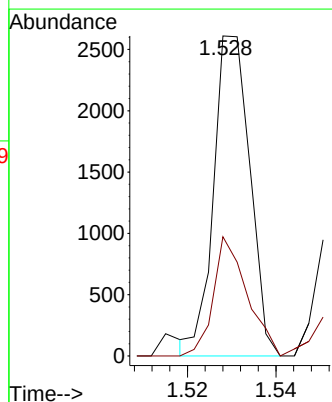
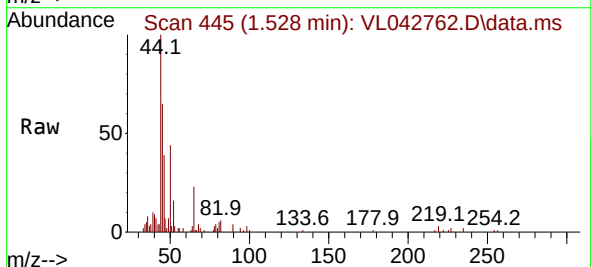
Instrument :
MSVOA_L
ClientSampleId :

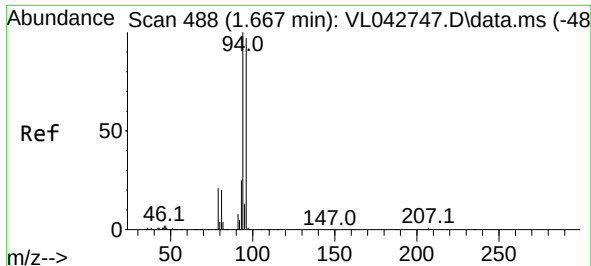
Tgt Ion: 51 Resp: 1559321
Ion Ratio Lower Upper
51 100
67 0.1 15.0 22.6#



#4
Chloromethane
Concen: 0.180 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 50 Resp: 1485
Ion Ratio Lower Upper
50 100
52 44.8 26.6 40.0#

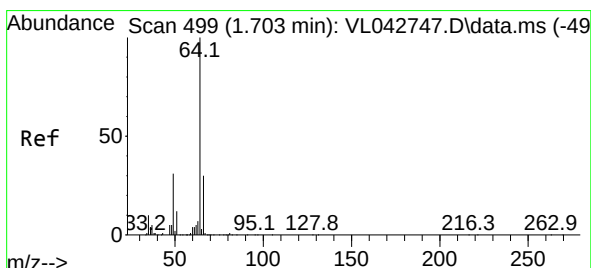
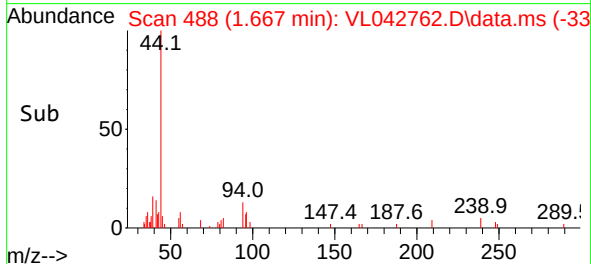
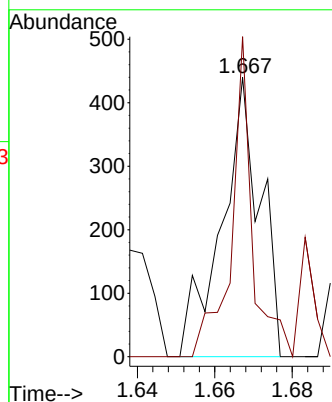
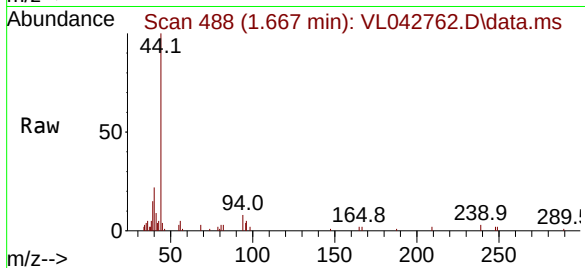




#6
Bromomethane
Concen: 0.096 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

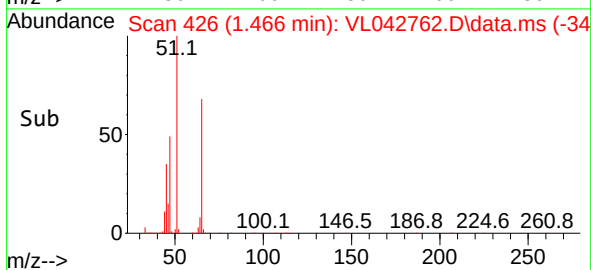
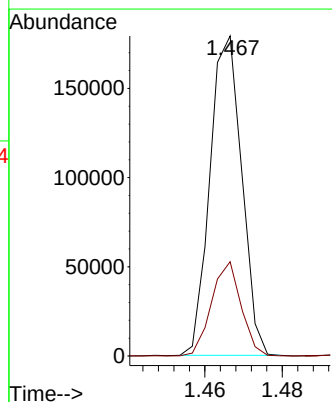
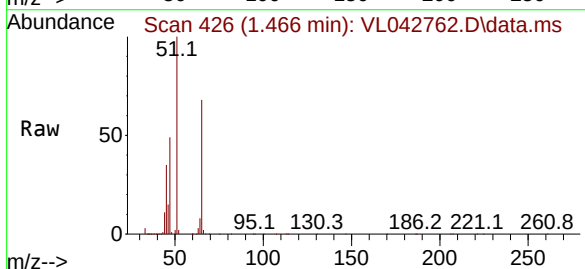
Instrument :
MSVOA_L
ClientSampleId :

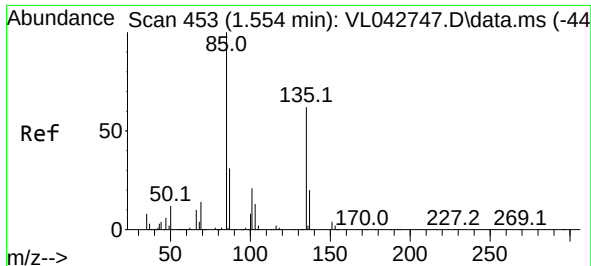
Tgt Ion: 94 Resp: 304
Ion Ratio Lower Upper
94 100
96 114.5 77.6 116.4



#7
Chloroethane
Concen: 32.408 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.236 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 64 Resp: 102106
Ion Ratio Lower Upper
64 100
66 29.5 24.1 36.1

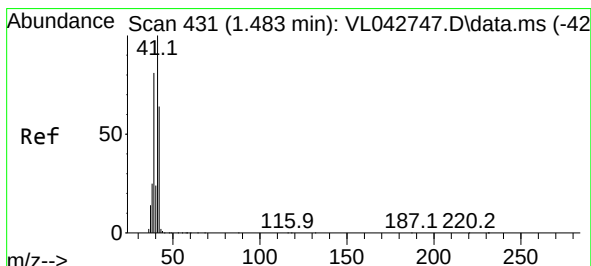
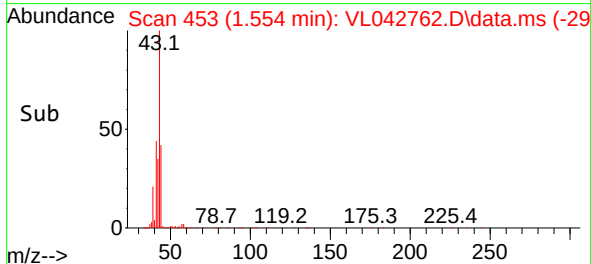
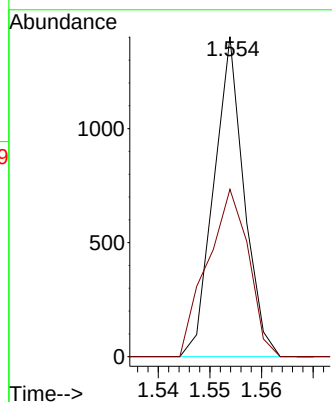
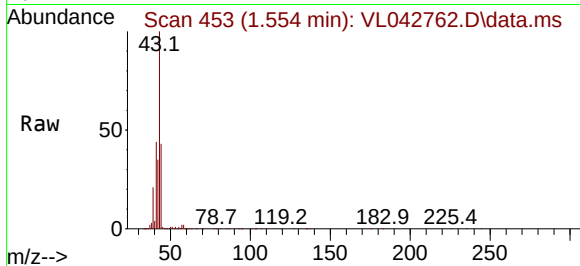




#8
 Dichlorotetrafluoroethane
 Concen: 0.034 ppbv
 RT: 1.554 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

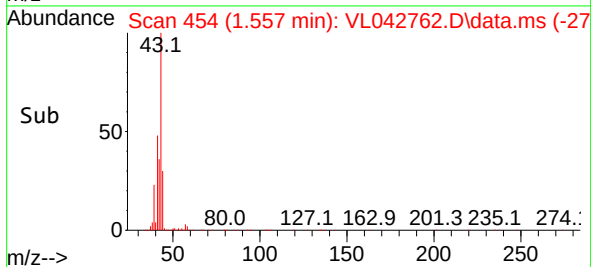
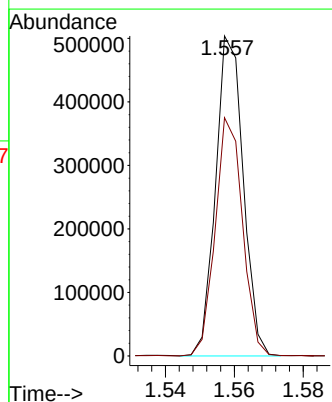
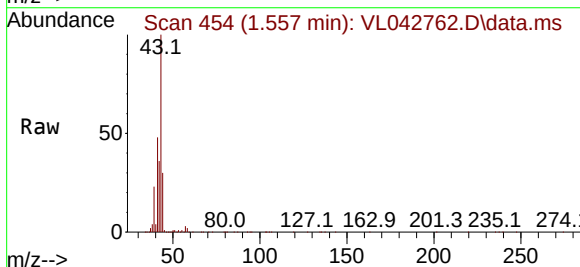
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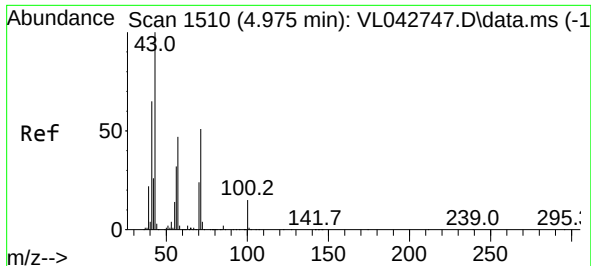
Tgt Ion: 85 Resp: 570
 Ion Ratio Lower Upper
 85 100
 135 71.4 50.6 76.0



#9
 Propene
 Concen: 29.043 ppbv
 RT: 1.557 min Scan# 454
 Delta R.T. 0.074 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

Tgt Ion: 41 Resp: 280515
 Ion Ratio Lower Upper
 41 100
 42 74.0 53.2 79.8

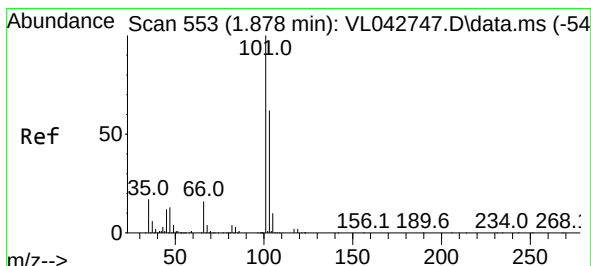
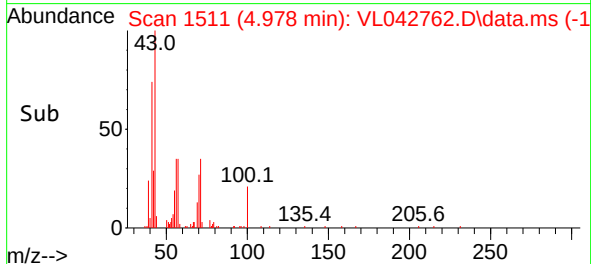
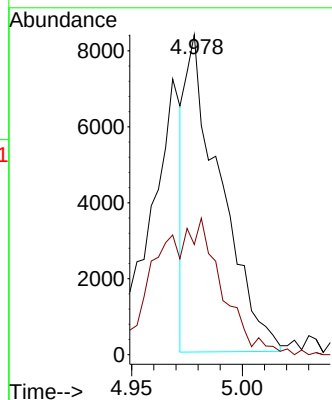
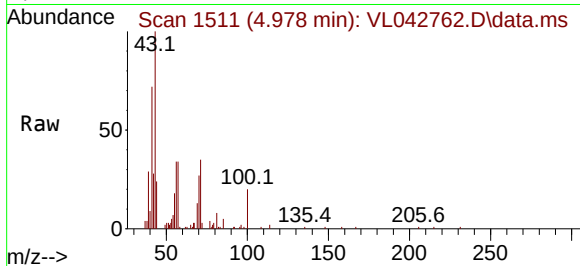




#10
 Heptane
 Concen: 0.354 ppbv
 RT: 4.978 min Scan# 11
 Delta R.T. 0.003 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

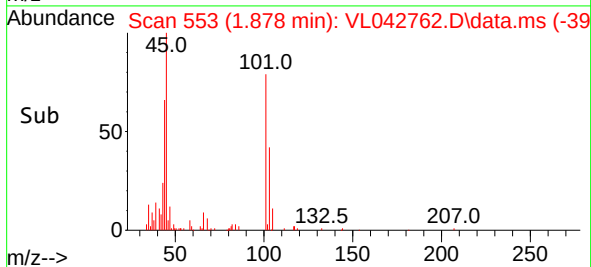
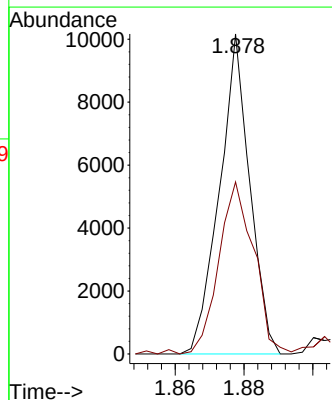
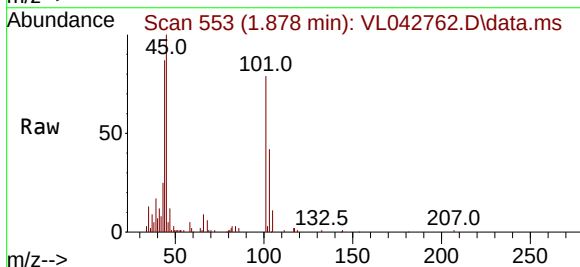
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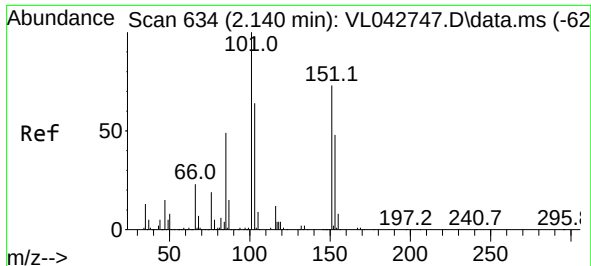
Tgt Ion: 43 Resp: 9231
 Ion Ratio Lower Upper
 43 100
 57 84.0 39.9 59.9#



#11
 Trichlorofluoromethane
 Concen: 0.296 ppbv
 RT: 1.878 min Scan# 553
 Delta R.T. 0.000 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

Tgt Ion: 101 Resp: 6222
 Ion Ratio Lower Upper
 101 100
 103 53.7 49.6 74.4

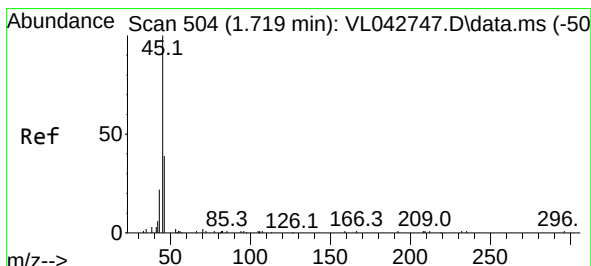
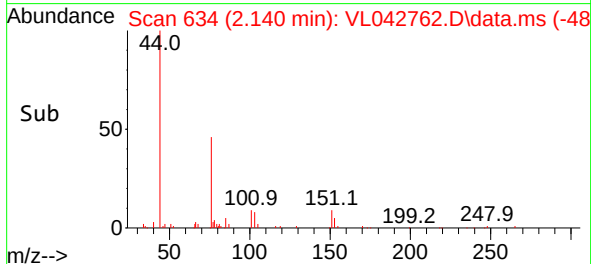
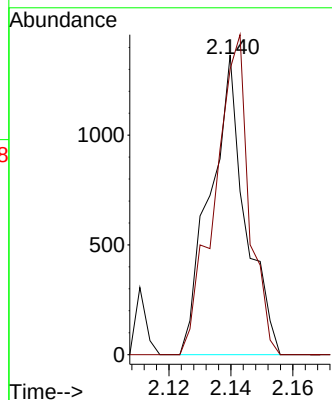
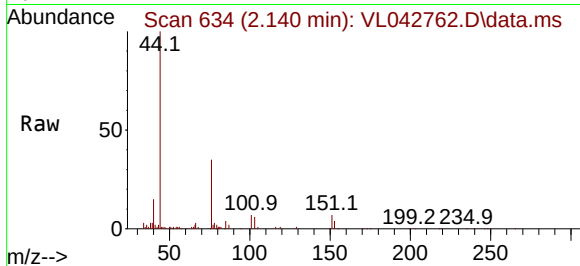




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.067 ppbv
 RT: 2.140 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

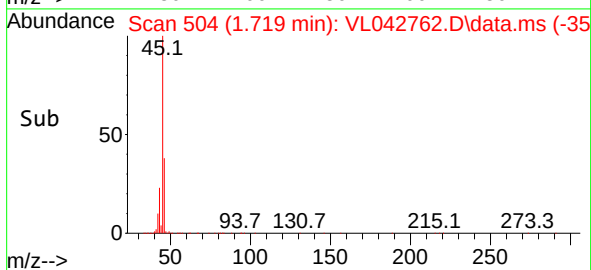
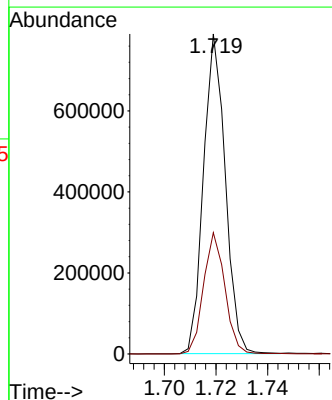
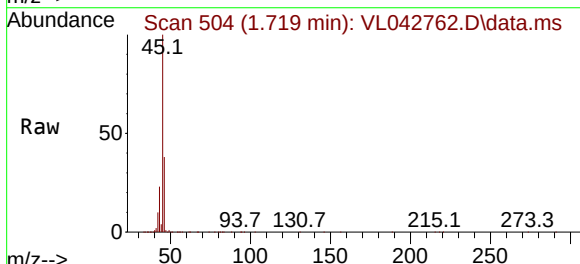
Instrument :
 MSVOA_L
 ClientSampleId :

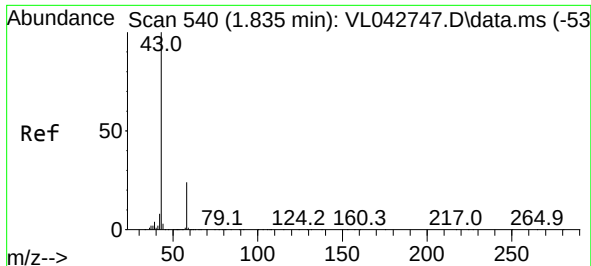
Tgt Ion:101 Resp: 1074
 Ion Ratio Lower Upper
 101 100
 151 104.3 60.5 90.7#



#13
 Ethanol
 Concen: 656.614 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

Tgt Ion: 45 Resp: 462583
 Ion Ratio Lower Upper
 45 100
 46 37.5 17.8 71.4





#15

Acetone

Concen: 21.776 ppbv

RT: 1.832 min Scan# 51

Delta R.T. -0.003 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

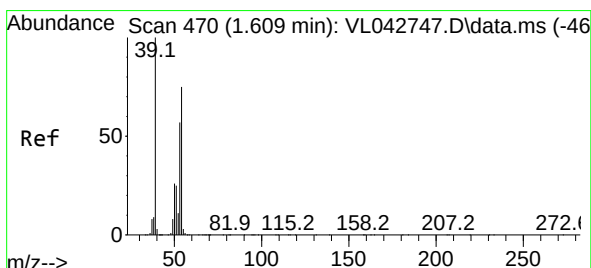
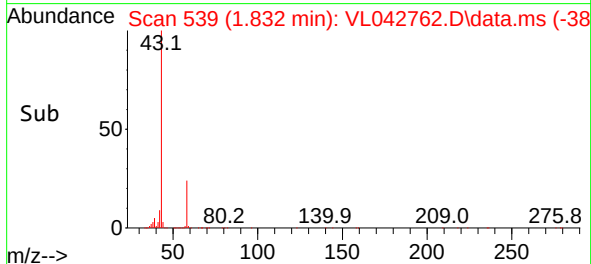
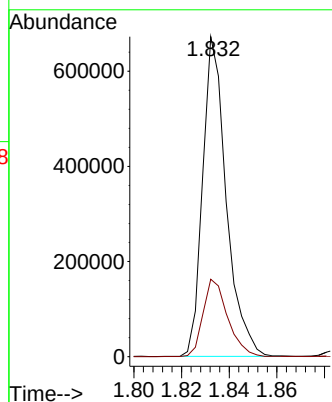
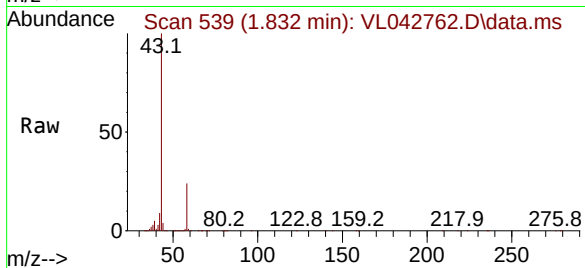
ClientSampleId :

Tgt Ion: 43 Resp: 463947

Ion Ratio Lower Upper

43 100

58 25.7 19.8 29.8



#16

1,3-Butadiene

Concen: 2.822 ppbv

RT: 1.599 min Scan# 467

Delta R.T. -0.010 min

Lab File: VL042762.D

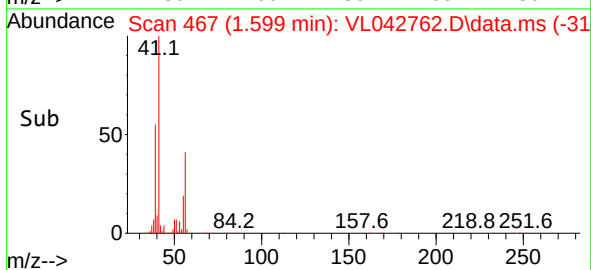
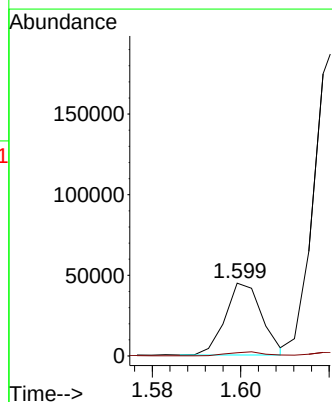
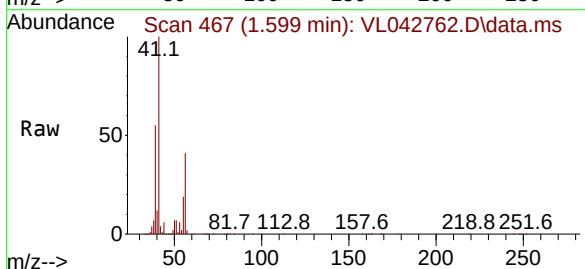
Acq: 24 Jul 2025 13:17

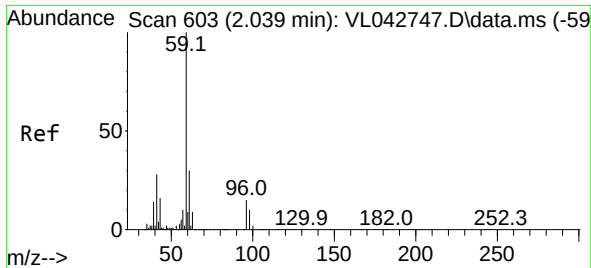
Tgt Ion: 39 Resp: 25644

Ion Ratio Lower Upper

39 100

54 15.7 54.5 81.7#

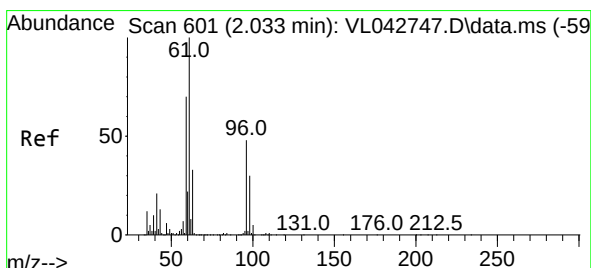
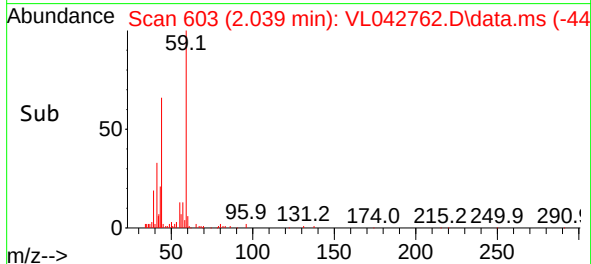
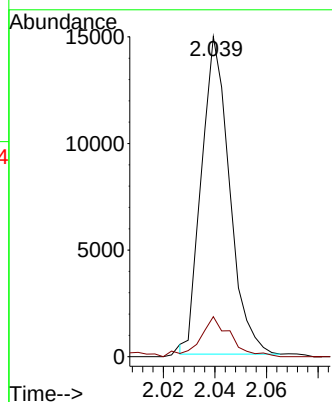
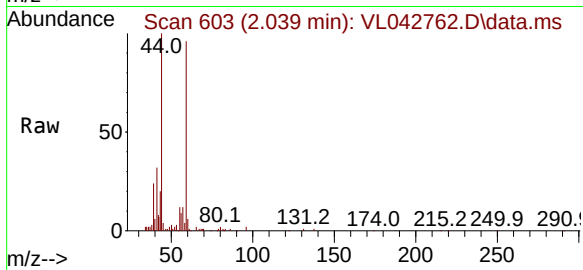




#17
tert-Butyl alcohol
Concen: 0.586 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

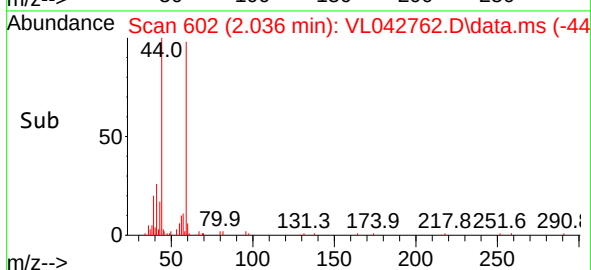
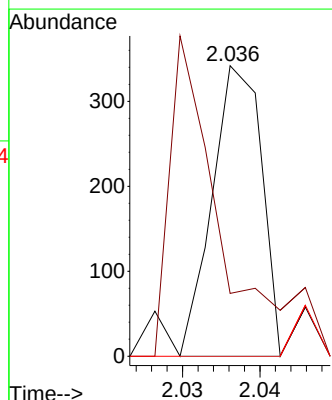
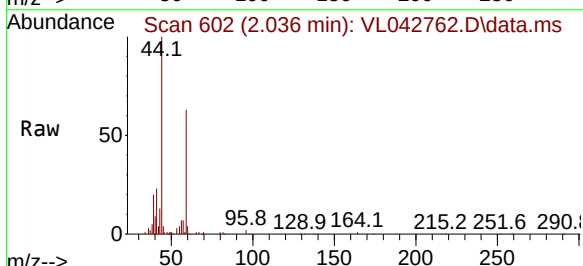
Instrument :
MSVOA_L
ClientSampleId :

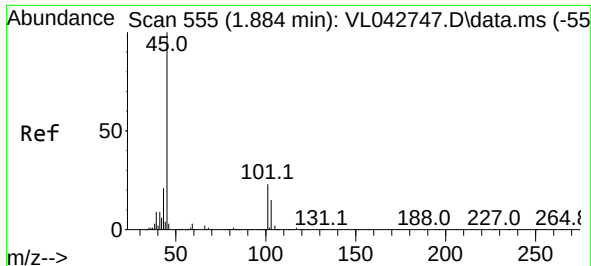
Tgt Ion: 59 Resp: 11264
Ion Ratio Lower Upper
59 100
57 14.7 8.3 12.5#



#18
1,1-Dichloroethene
Concen: 0.021 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 96 Resp: 152
Ion Ratio Lower Upper
96 100
61 0.0 165.8 248.6#
98 0.0 49.9 74.9#

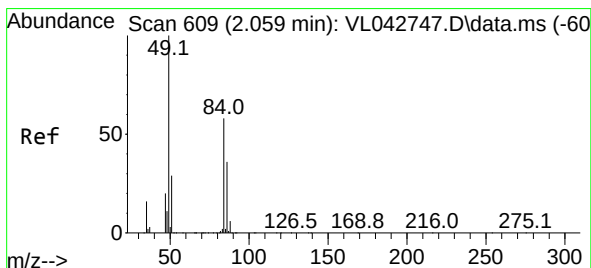
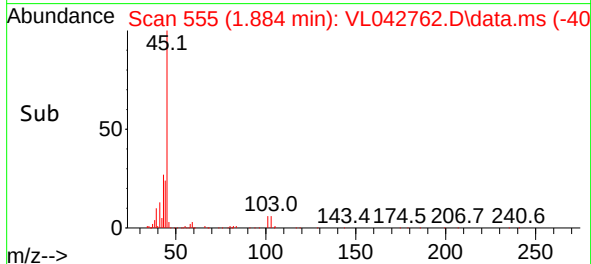
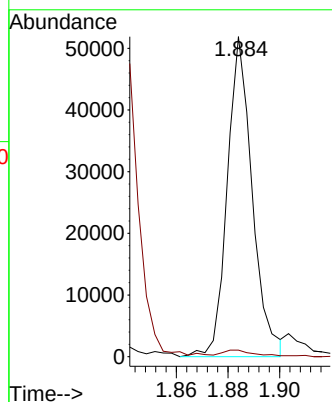
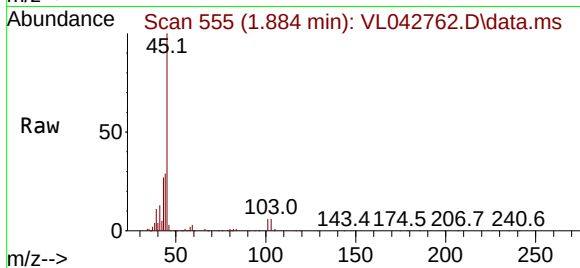




#19
Isopropyl Alcohol
Concen: 3.081 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

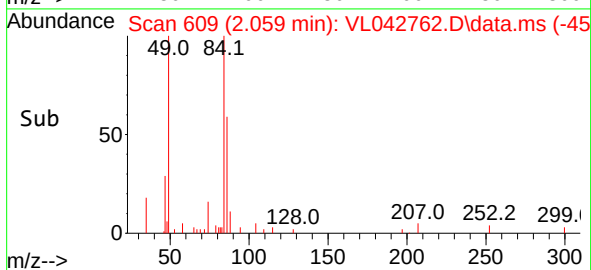
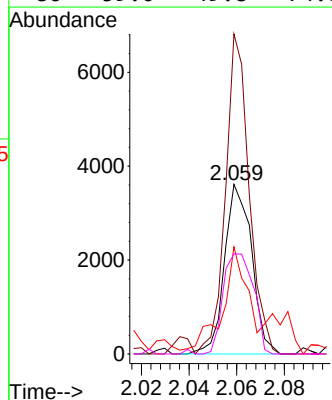
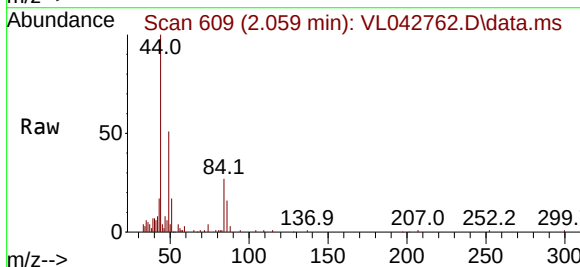
Instrument :
MSVOA_L
ClientSampleId :

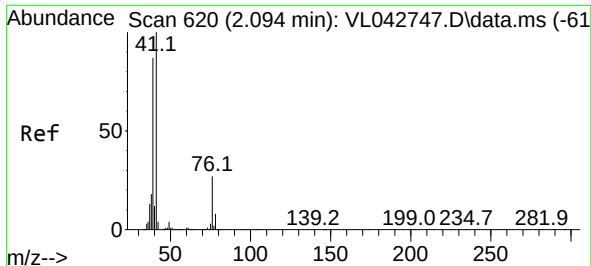
Tgt Ion: 45 Resp: 34879
Ion Ratio Lower Upper
45 100
58 341.2 30.0 45.0#



#20
Methylene Chloride
Concen: 0.426 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 84 Resp: 2857
Ion Ratio Lower Upper
84 100
49 188.7 138.6 208.0
51 60.9 40.6 61.0
86 59.0 49.8 74.8

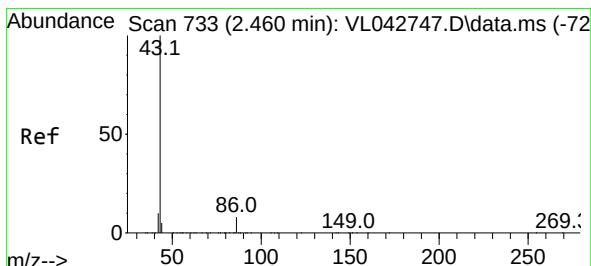
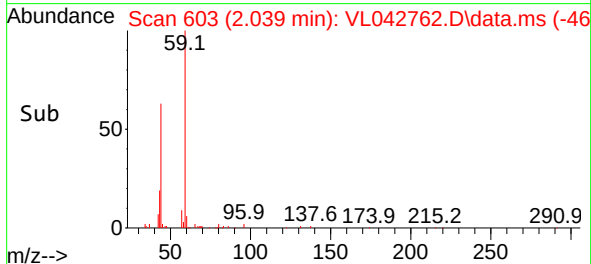
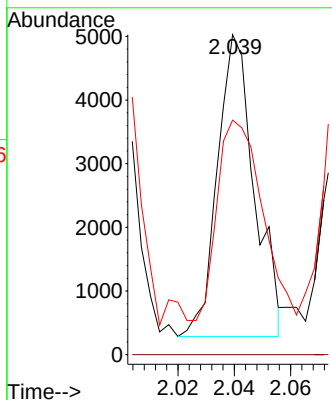
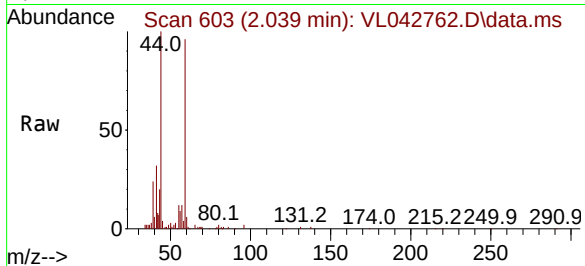




#21
 Allyl Chloride
 Concen: 0.328 ppbv
 RT: 2.039 min Scan# 60
 Delta R.T. -0.055 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

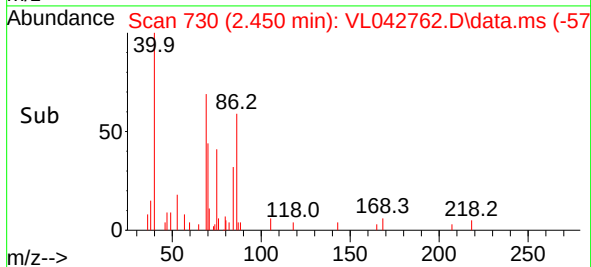
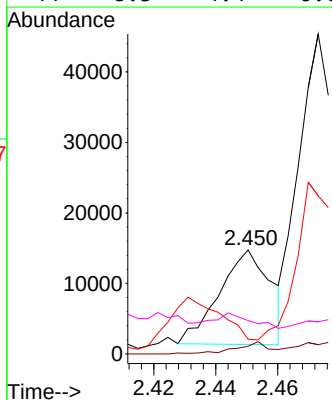
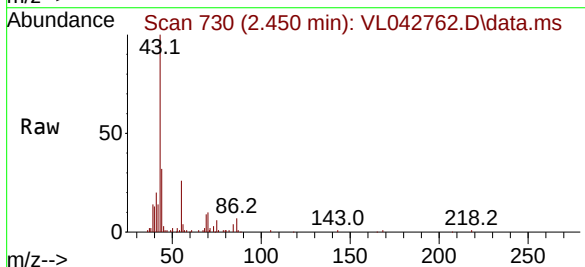
Instrument :
 MSVOA_L
 ClientSampleId :

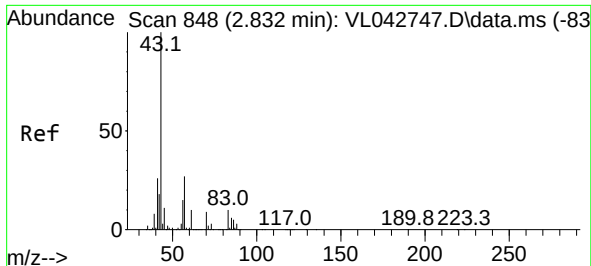
Tgt Ion: 41 Resp: 4310
 Ion Ratio Lower Upper
 41 100
 76 0.0 21.1 31.7#
 39 0.0 68.3 102.5#



#23
 Vinyl Acetate
 Concen: 0.596 ppbv
 RT: 2.450 min Scan# 730
 Delta R.T. -0.010 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

Tgt Ion: 43 Resp: 15385
 Ion Ratio Lower Upper
 43 100
 86 7.2 6.1 9.1
 42 0.0 7.8 11.8#
 44 8.3 4.4 6.6#





#25

Ethyl Acetate

Concen: 0.940 ppbv

RT: 2.826 min Scan# 846

Delta R.T. -0.006 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 44338

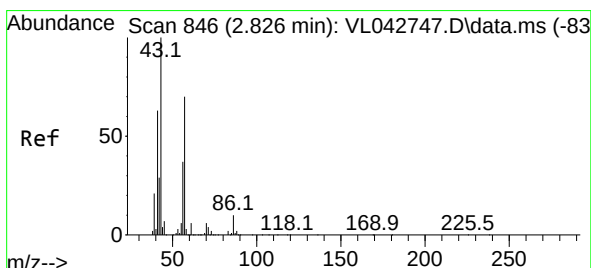
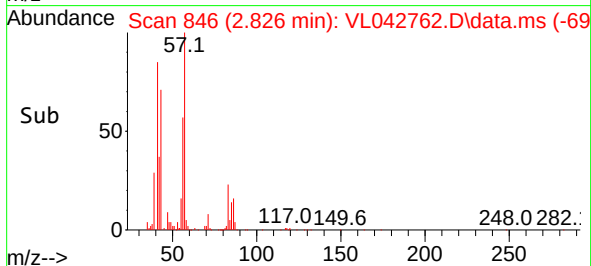
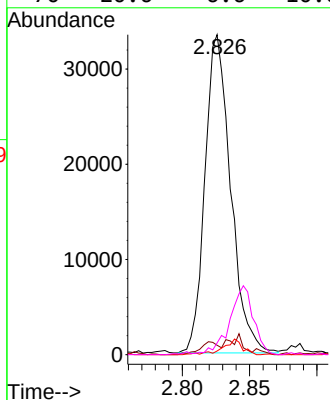
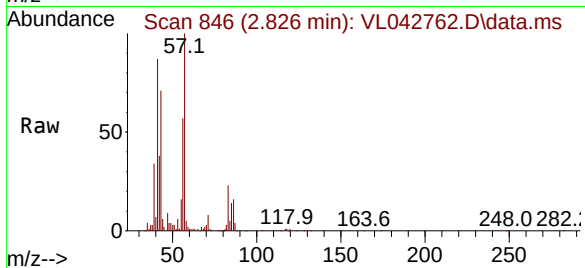
Ion Ratio Lower Upper

43 100

45 7.8 7.8 11.6

61 3.7 6.7 10.1#

70 20.6 6.6 10.0#



#26

Hexane

Concen: 2.376 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.000 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Tgt Ion: 57 Resp: 49153

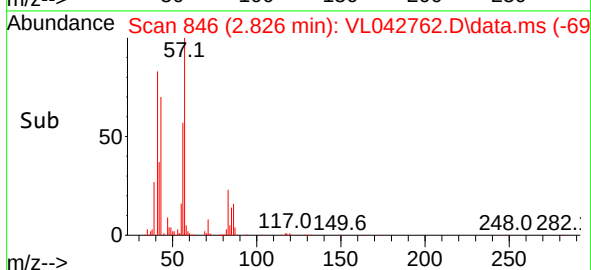
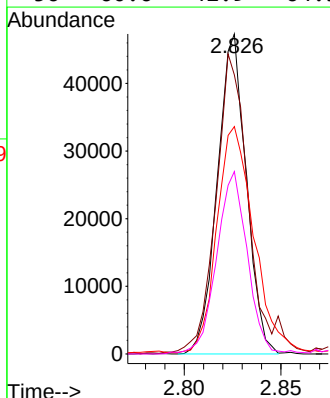
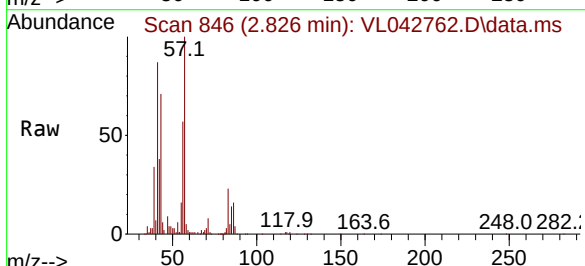
Ion Ratio Lower Upper

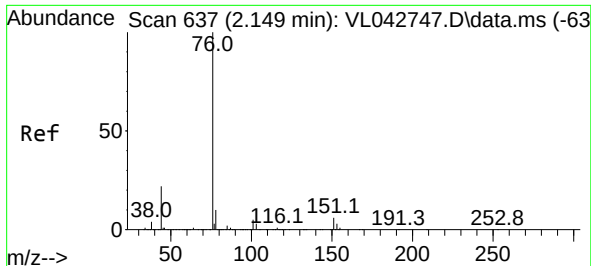
57 100

41 105.4 75.4 113.2

43 90.6 185.0 277.6#

56 60.6 42.9 64.3

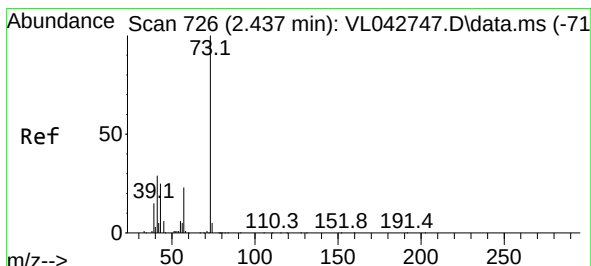
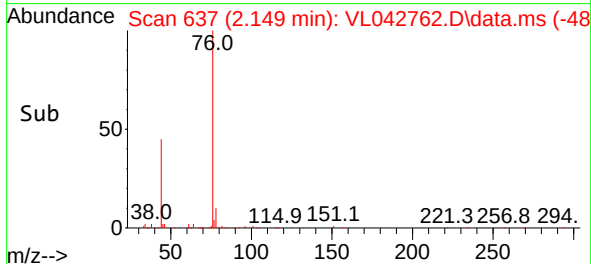
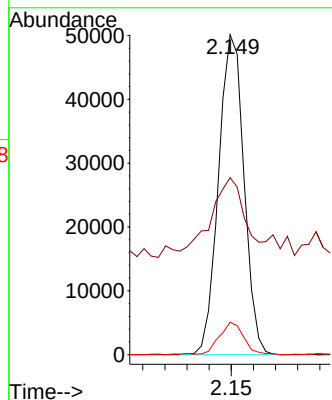
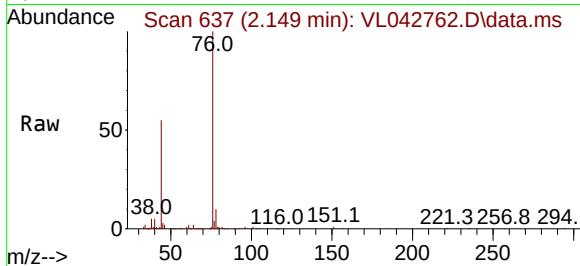




#27
Carbon Disulfide
Concen: 2.261 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

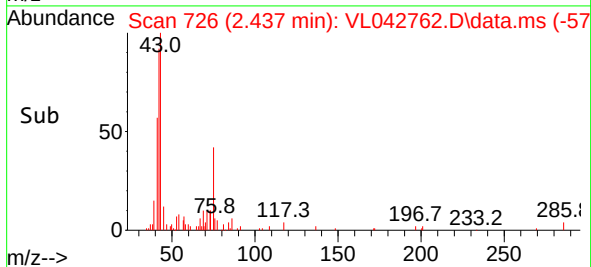
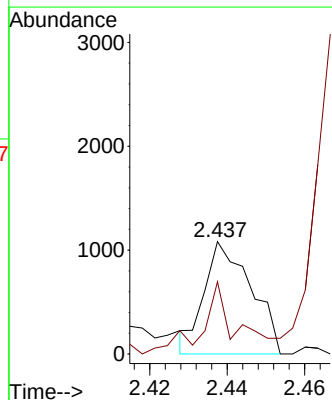
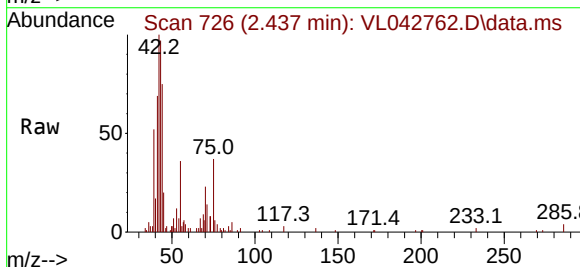
Instrument :
MSVOA_L
ClientSampleId :

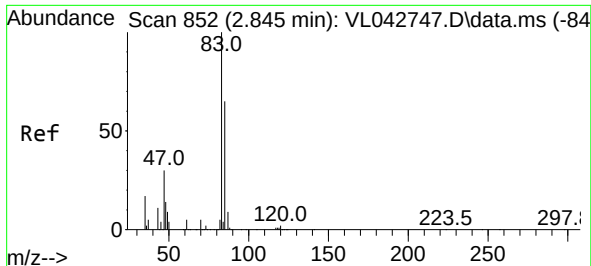
Tgt Ion: 76 Resp: 40051
Ion Ratio Lower Upper
76 100
44 126.2 19.3 28.9#
78 10.1 9.9 14.9



#28
Methyl tert-Butyl Ether
Concen: 0.093 ppbv
RT: 2.437 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 73 Resp: 909
Ion Ratio Lower Upper
73 100
57 592.3 19.8 29.8#





#29

Chloroform

Concen: 20.193 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

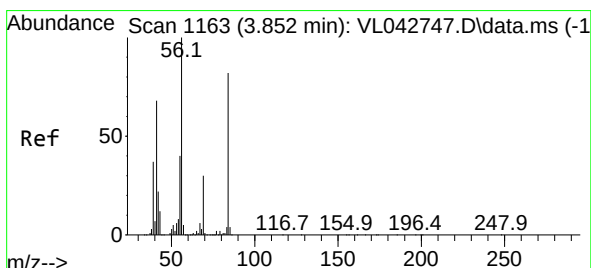
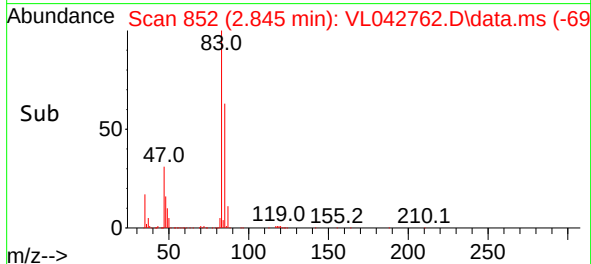
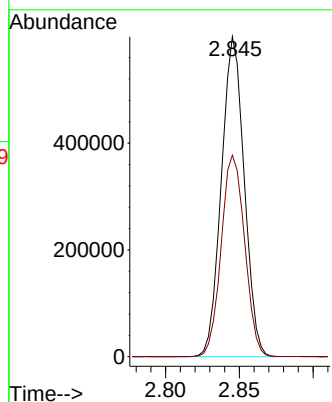
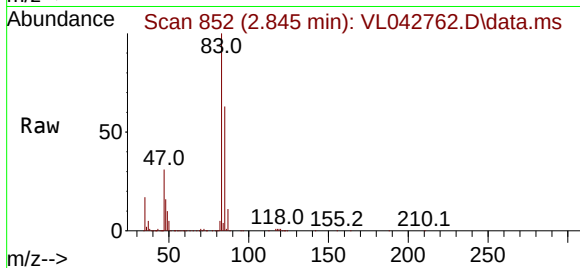
ClientSampleId :

Tgt Ion: 83 Resp: 645551

Ion Ratio Lower Upper

83 100

85 62.9 52.2 78.2



#30

Cyclohexane

Concen: 0.044 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

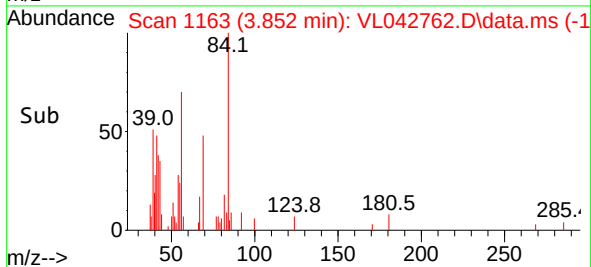
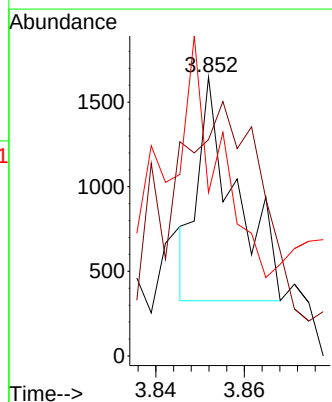
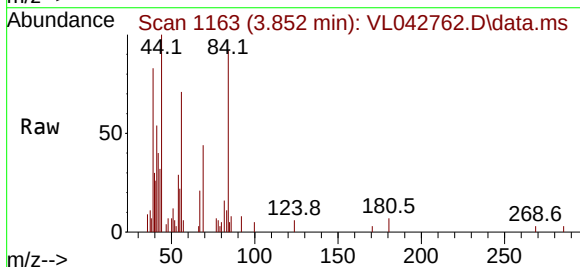
Tgt Ion: 84 Resp: 773

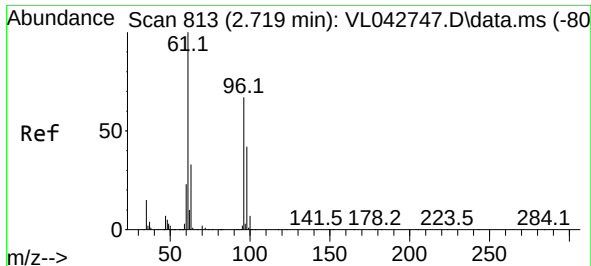
Ion Ratio Lower Upper

84 100

56 372.3 97.5 146.3#

41 404.4 67.2 100.8#

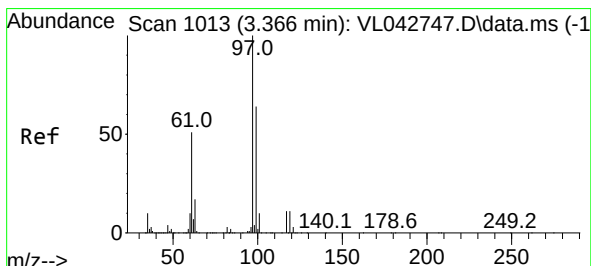
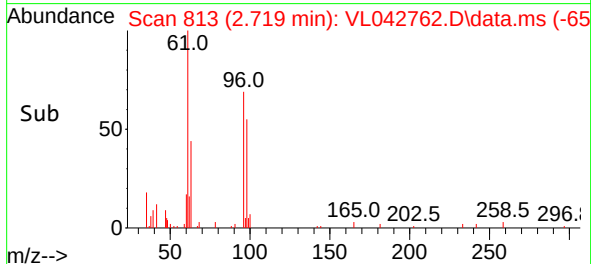
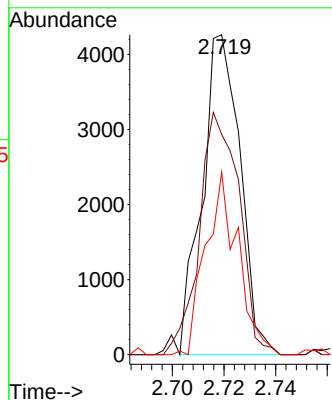
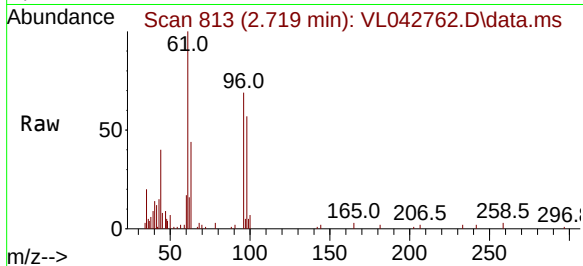




#31
 cis-1,2-Dichloroethene
 Concen: 0.205 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

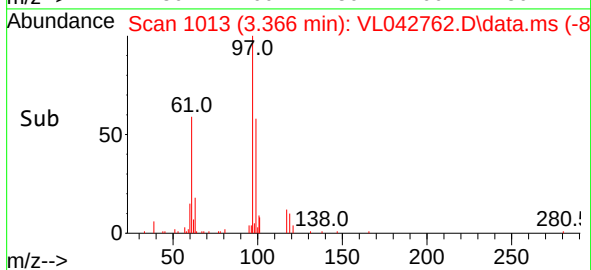
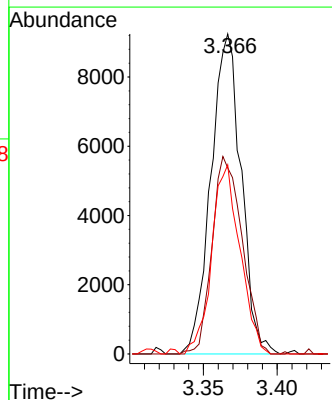
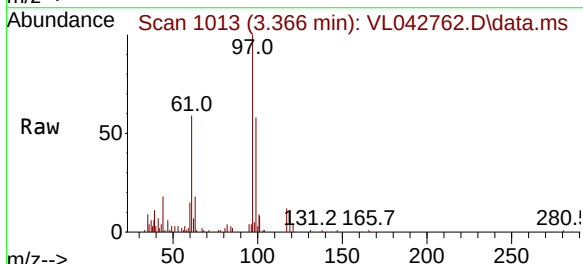
Instrument :
 MSVOA_L
 ClientSampleId :

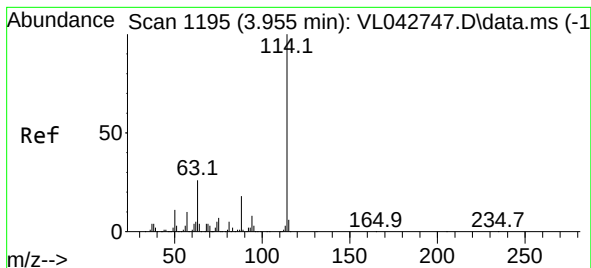
Tgt Ion: 61 Resp: 4361
 Ion Ratio Lower Upper
 61 100
 96 68.9 53.5 80.3
 98 57.0 33.6 50.4#



#32
 1,1,1-Trichloroethane
 Concen: 0.395 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042762.D
 Acq: 24 Jul 2025 13:17

Tgt Ion: 97 Resp: 13146
 Ion Ratio Lower Upper
 97 100
 99 61.9 51.0 76.6
 61 56.5 40.9 61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

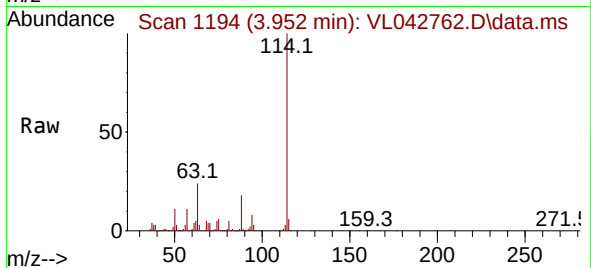
Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :



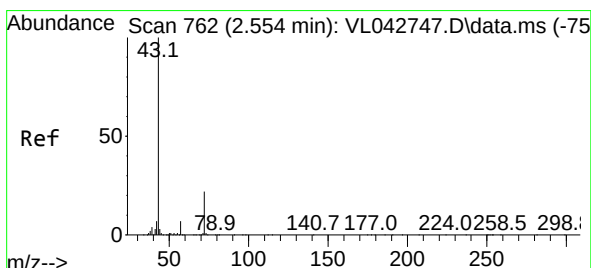
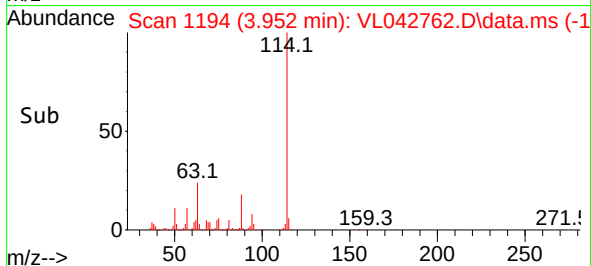
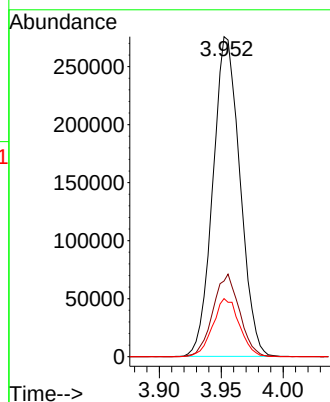
Tgt Ion:114 Resp: 419540

Ion Ratio Lower Upper

114 100

63 25.4 20.5 30.7

88 17.9 14.0 21.0



#34

2-Butanone

Concen: 15.535 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.000 min

Lab File: VL042762.D

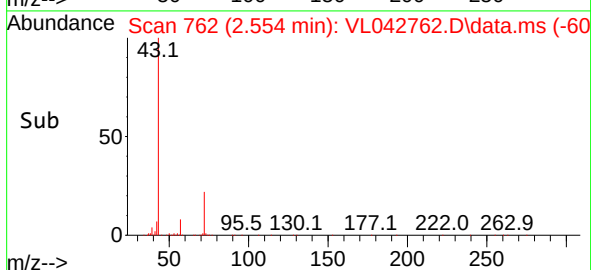
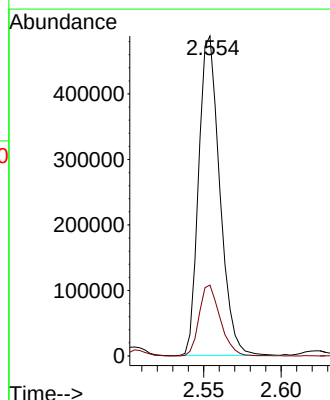
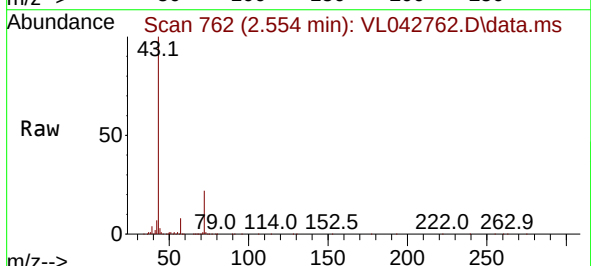
Acq: 24 Jul 2025 13:17

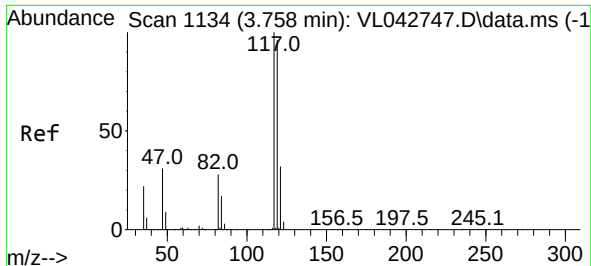
Tgt Ion: 43 Resp: 461666

Ion Ratio Lower Upper

43 100

72 22.2 17.4 26.0

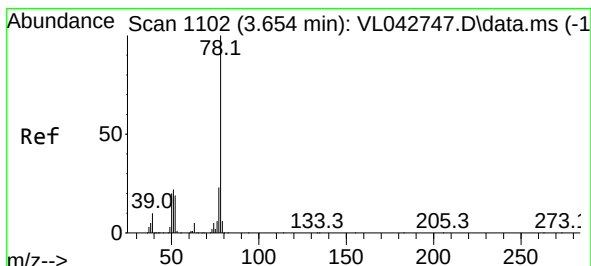
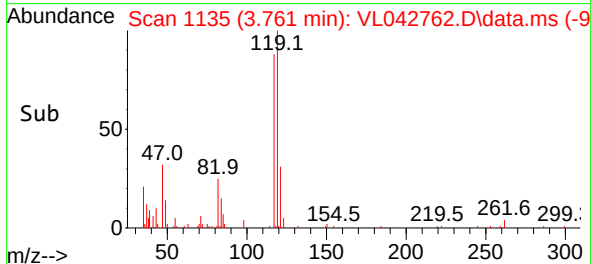
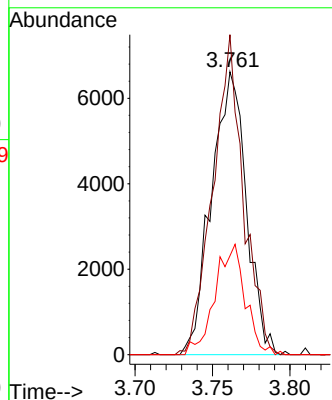
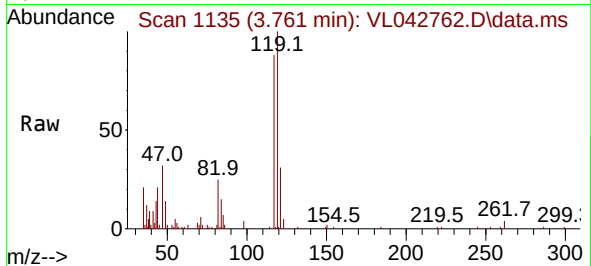




#35
Carbon Tetrachloride
Concen: 0.333 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

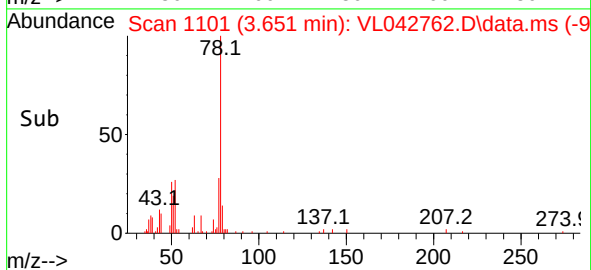
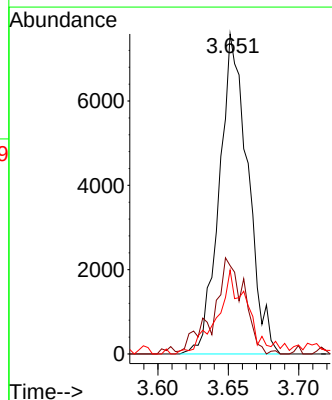
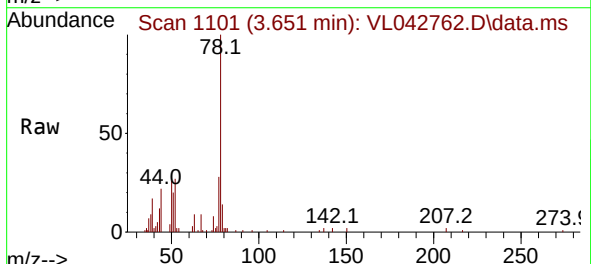
Instrument :
MSVOA_L
ClientSampleId :

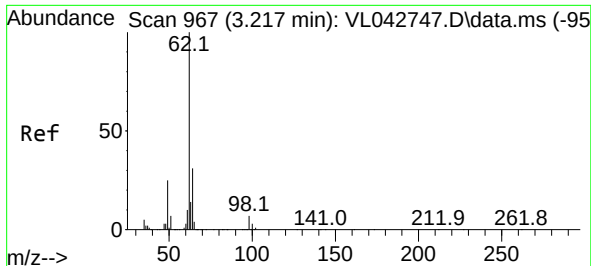
Tgt Ion:117 Resp: 10371
Ion Ratio Lower Upper
117 100
119 113.1 77.1 115.7
121 35.0 25.5 38.3



#36
Benzene
Concen: 0.270 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 78 Resp: 10733
Ion Ratio Lower Upper
78 100
77 27.6 18.5 27.7
50 25.2 16.2 24.2#

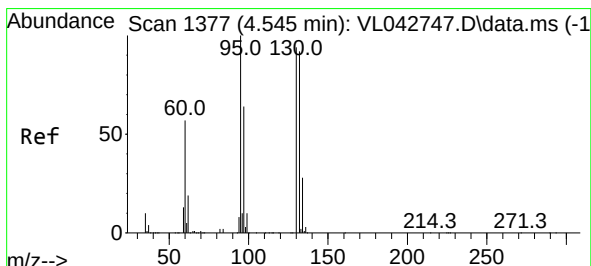
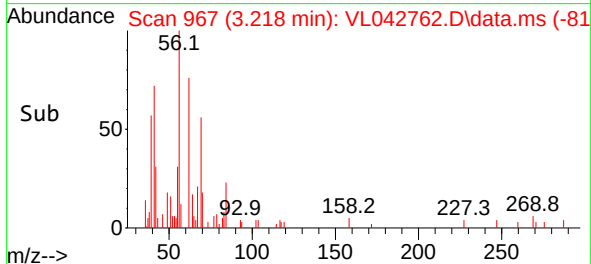
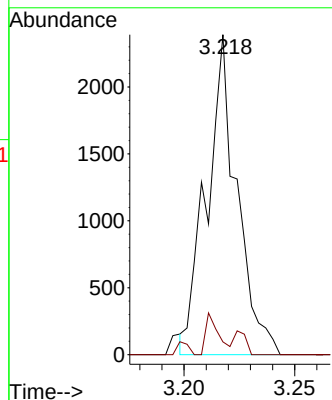
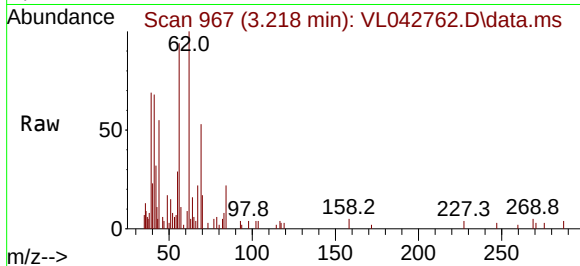




#37
1,2-Dichloroethane
Concen: 0.095 ppbv
RT: 3.218 min Scan# 90
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

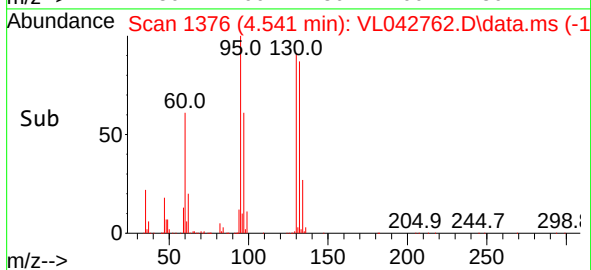
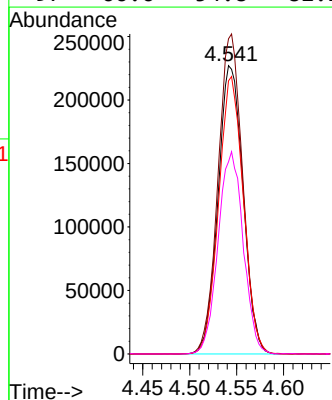
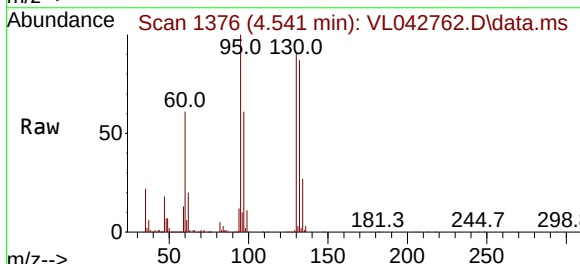
Instrument :
MSVOA_L
ClientSampleId :

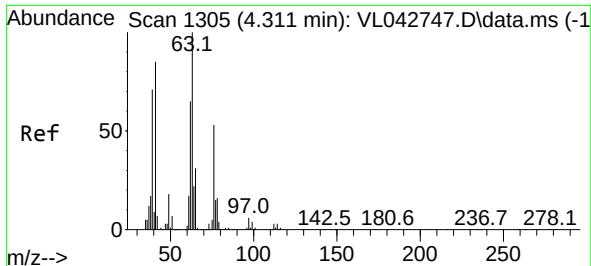
Tgt Ion: 62 Resp: 2275
Ion Ratio Lower Upper
62 100
98 9.9 5.2 7.8#



#38
Trichloroethene
Concen: 22.037 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion:130 Resp: 420946
Ion Ratio Lower Upper
130 100
95 109.3 85.4 128.2
132 94.7 78.2 117.2
97 66.6 54.8 82.2





#39

1,2-Dichloropropane

Concen: 7.247 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

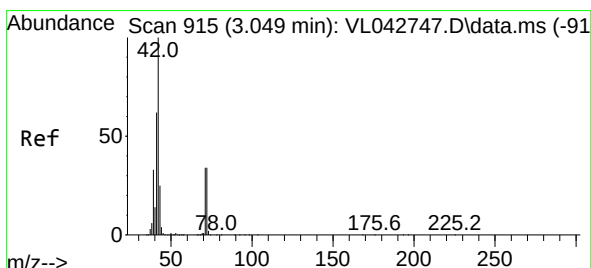
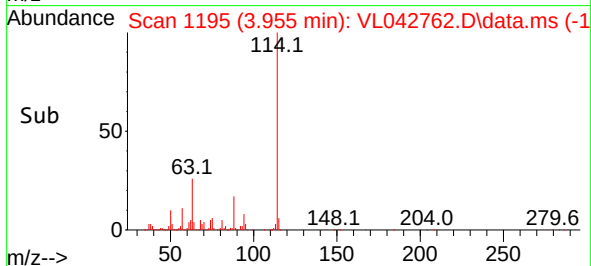
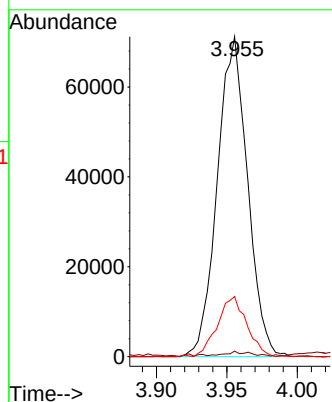
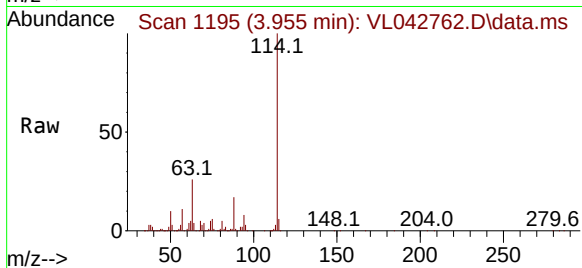
Tgt Ion: 63 Resp: 106360

Ion Ratio Lower Upper

63 100

41 1.7 68.2 102.4#

62 18.6 52.0 78.0#



#41

Tetrahydrofuran

Concen: 0.045 ppbv

RT: 3.052 min Scan# 916

Delta R.T. 0.003 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

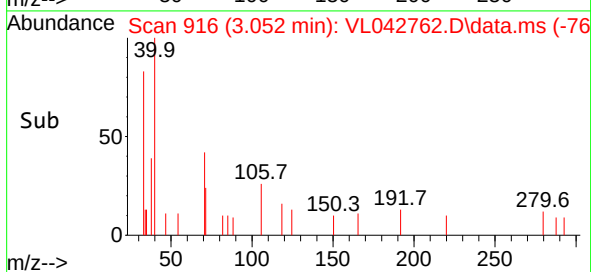
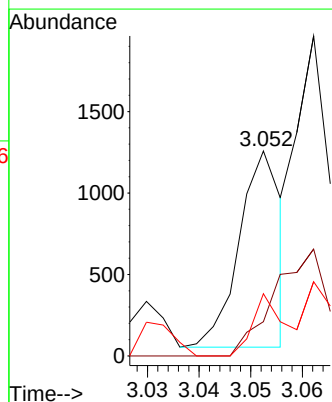
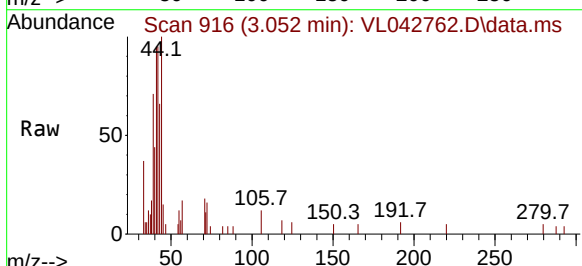
Tgt Ion: 42 Resp: 687

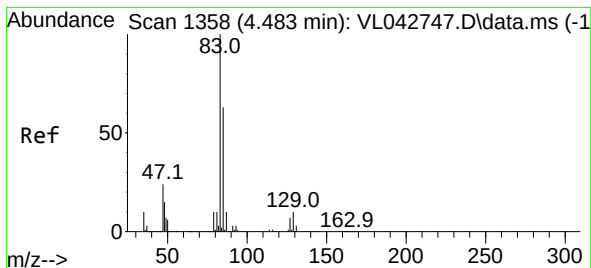
Ion Ratio Lower Upper

42 100

72 0.0 30.9 46.3#

71 87.3 28.6 43.0#





#42

Bromodichloromethane

Concen: 0.150 ppbv

RT: 4.483 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

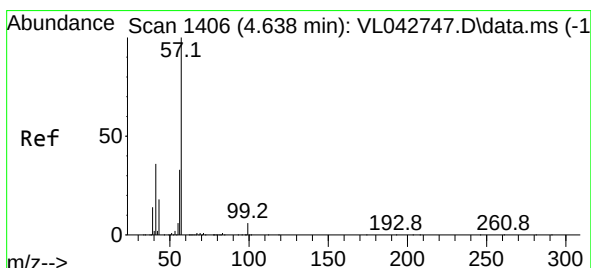
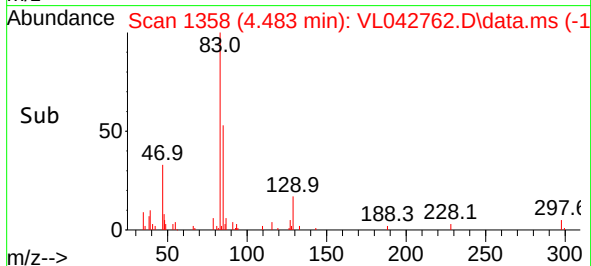
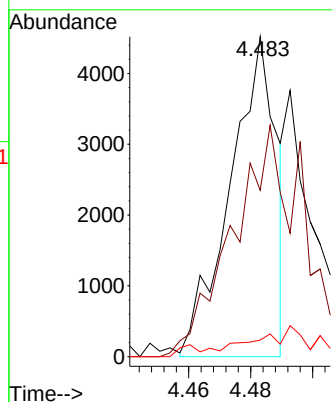
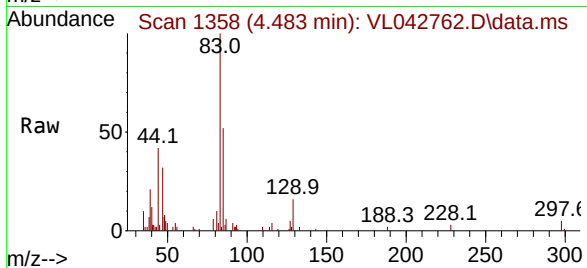
Tgt Ion: 83 Resp: 4682

Ion Ratio Lower Upper

83 100

85 47.6 50.2 75.4#

127 2.5 5.4 8.2#



#44

2,2,4-Trimethylpentane

Concen: 0.030 ppbv

RT: 4.632 min Scan# 1404

Delta R.T. -0.006 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

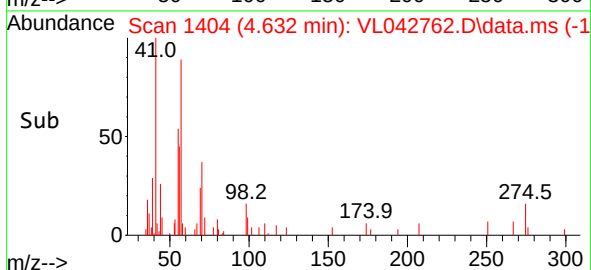
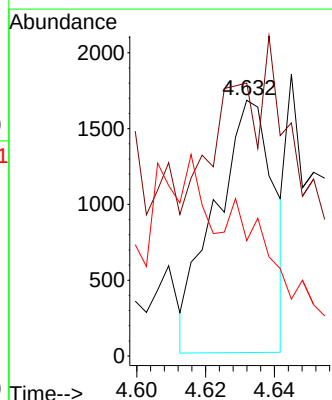
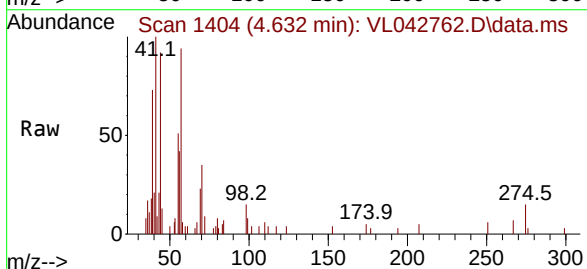
Tgt Ion: 57 Resp: 1960

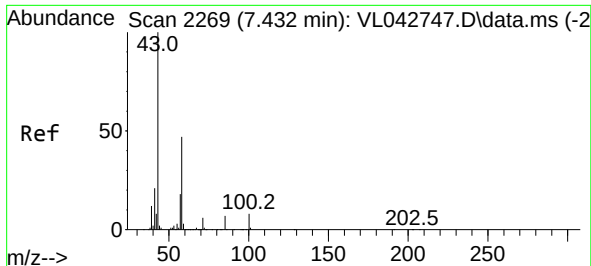
Ion Ratio Lower Upper

57 100

41 305.5 28.3 42.5#

56 0.0 25.8 38.6#

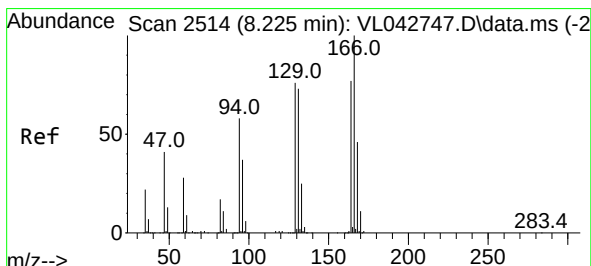
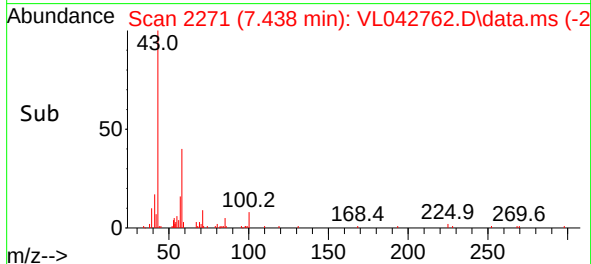
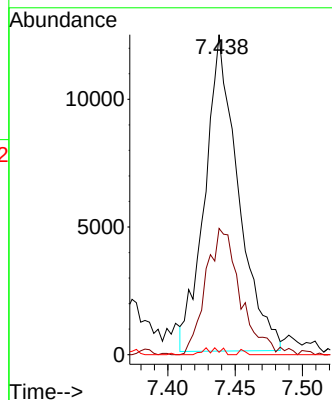
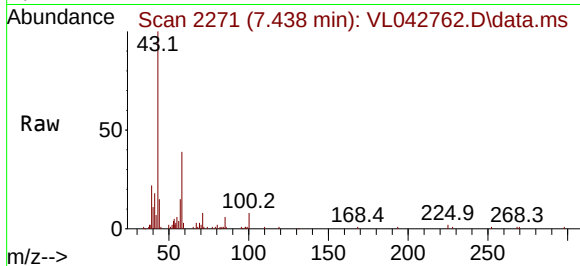




#51
2-Hexanone
Concen: 0.739 ppbv
RT: 7.438 min Scan# 21380
Delta R.T. 0.006 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

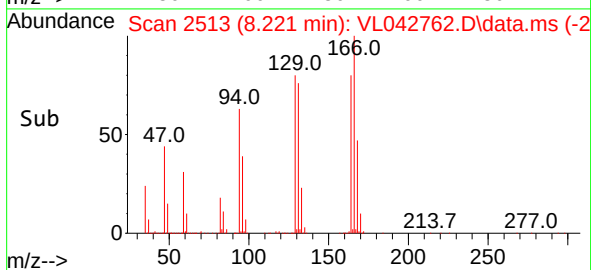
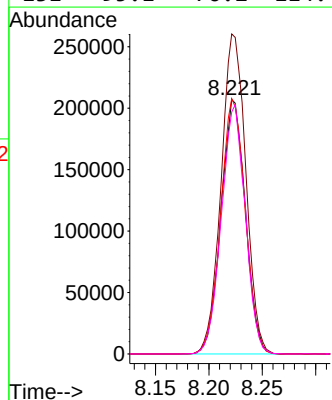
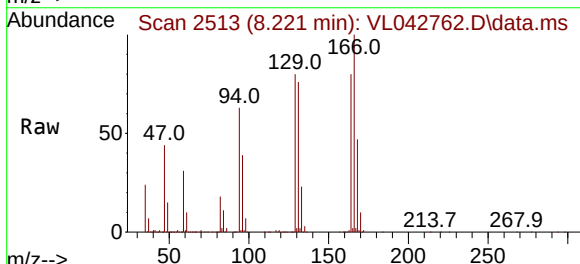
Instrument :
MSVOA_L
ClientSampleId :

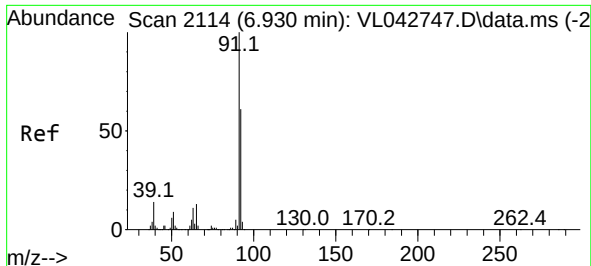
Tgt Ion: 43 Resp: 21380
Ion Ratio Lower Upper
43 100
58 42.0 38.0 57.0
98 1.4 0.2 0.4#



#52
Tetrachloroethene
Concen: 19.975 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion:164 Resp: 329198
Ion Ratio Lower Upper
164 100
166 125.8 104.0 156.0
129 100.4 79.2 118.8
131 95.1 76.2 114.4

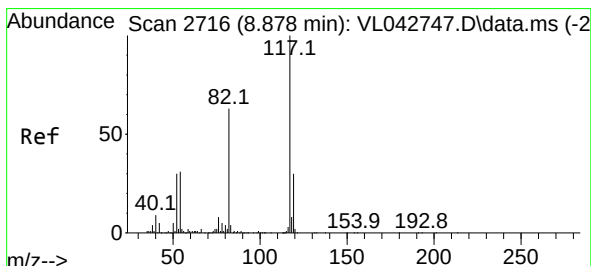
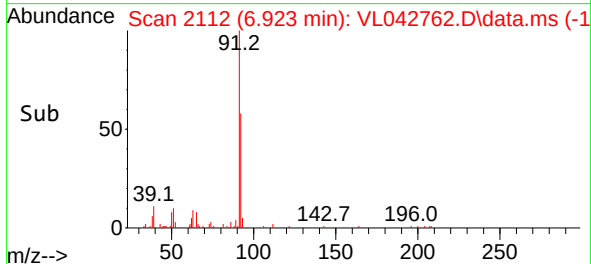
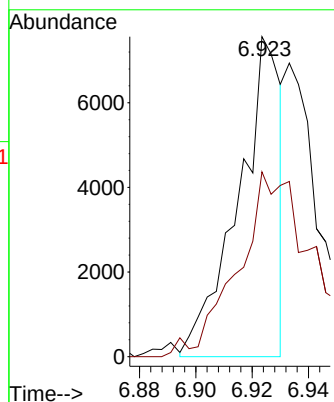
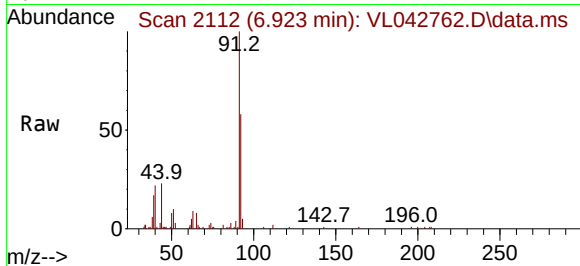




#53
Toluene
Concen: 0.185 ppbv
RT: 6.923 min Scan# 2114
Delta R.T. -0.006 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

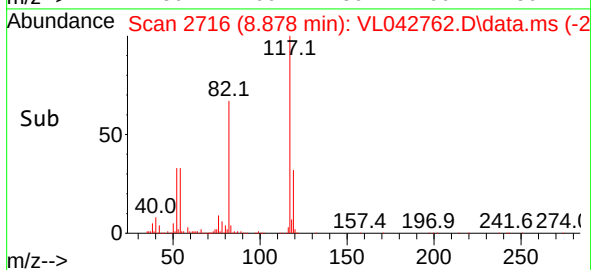
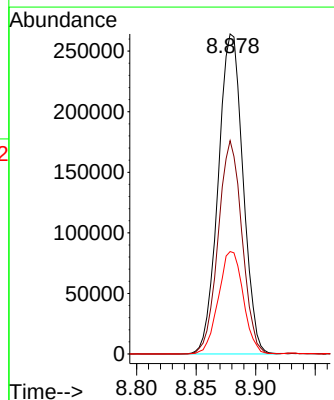
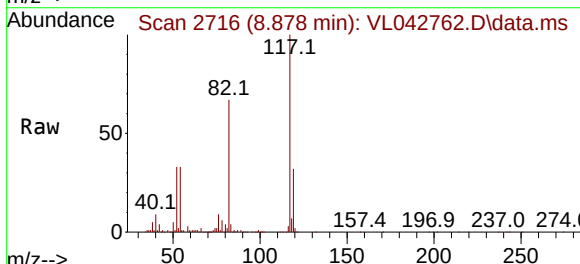
Instrument :
MSVOA_L
ClientSampleId :

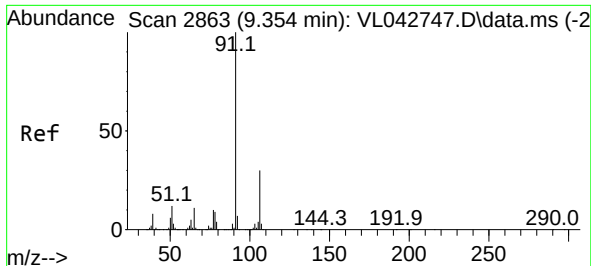
Tgt Ion: 91 Resp: 7882
Ion Ratio Lower Upper
91 100
92 99.6 48.0 72.0#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 117 Resp: 381810
Ion Ratio Lower Upper
117 100
82 64.4 53.3 79.9
119 32.4 25.8 38.6

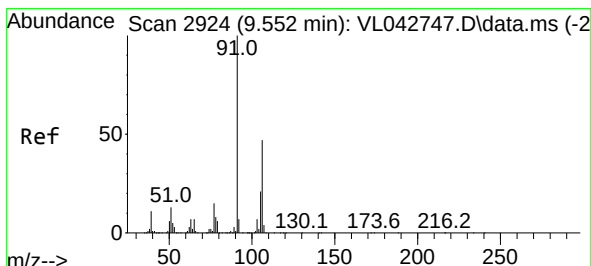
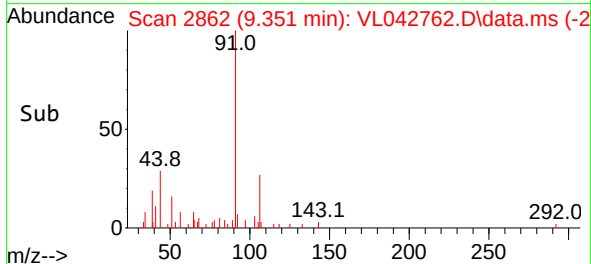
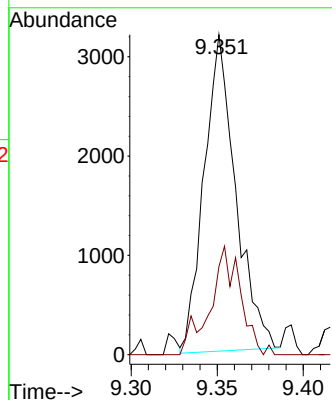
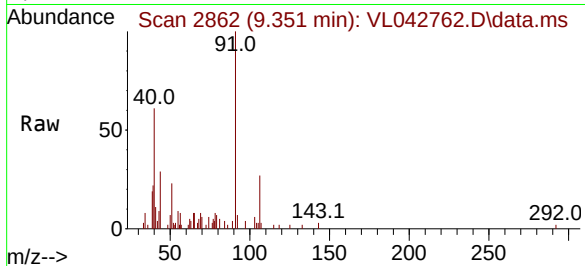




#58
Ethyl Benzene
Concen: 0.068 ppbv
RT: 9.351 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

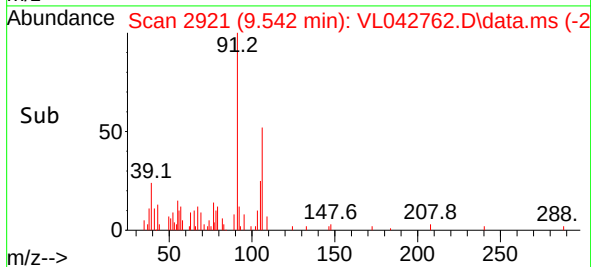
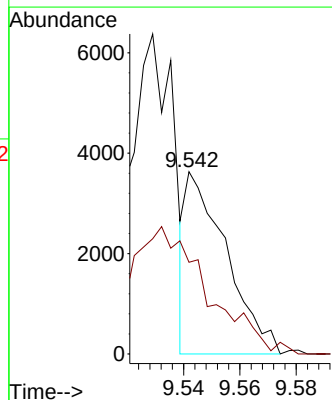
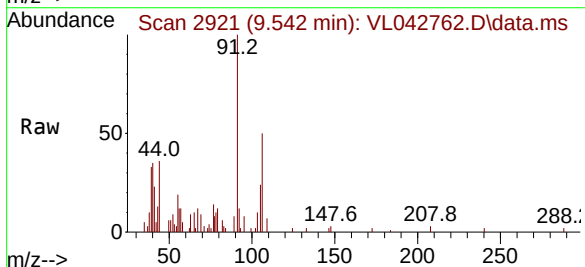
Instrument :
MSVOA_L
ClientSampleId :

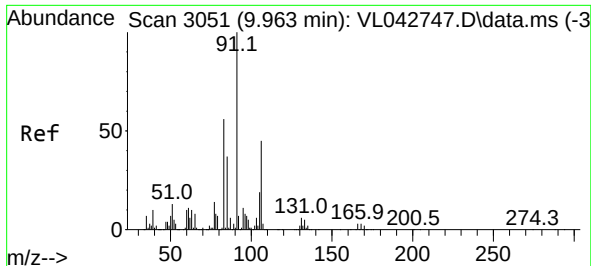
Tgt Ion: 91 Resp: 4079
Ion Ratio Lower Upper
91 100
106 28.1 23.8 35.6



#59
m/p-Xylene
Concen: 0.076 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.010 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 91 Resp: 3642
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

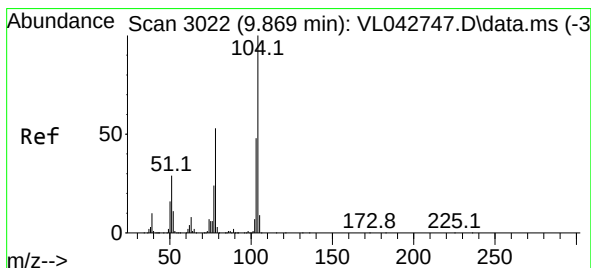
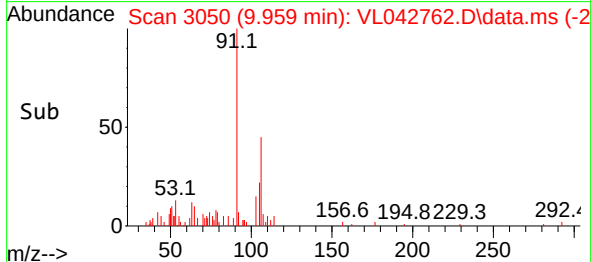
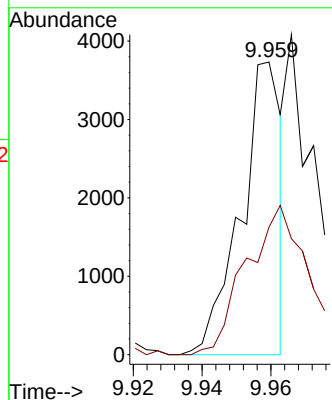
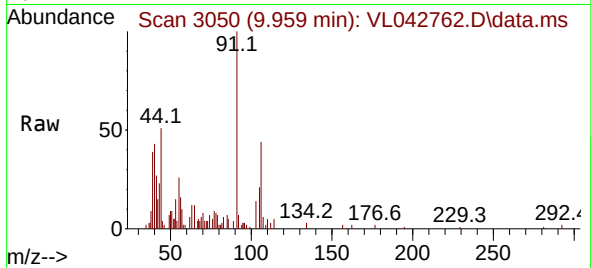




#60
o-Xylene
Concen: 0.063 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

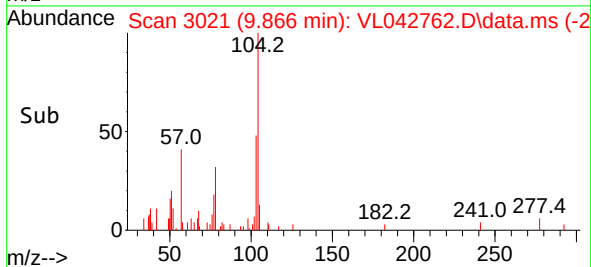
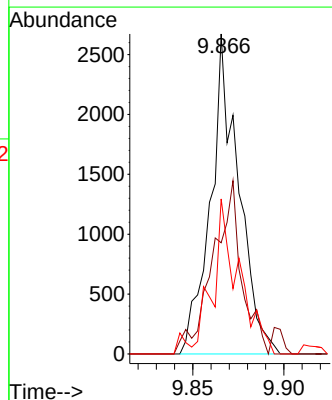
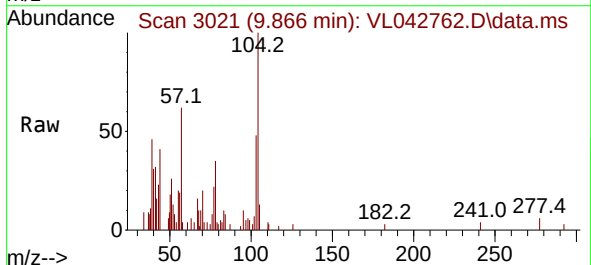
Instrument :
MSVOA_L
ClientSampleId :

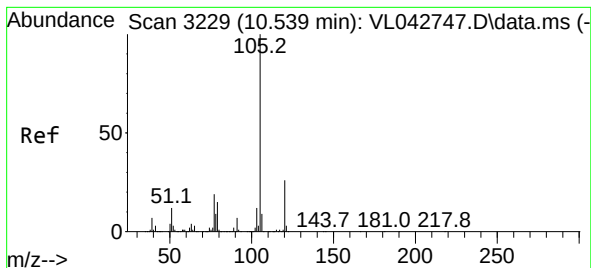
Tgt Ion: 91 Resp: 3034
Ion Ratio Lower Upper
91 100
106 80.4 22.0 66.0#



#61
Styrene
Concen: 0.141 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.003 min
Lab File: VL042762.D
Acq: 24 Jul 2025 13:17

Tgt Ion: 104 Resp: 2858
Ion Ratio Lower Upper
104 100
78 59.1 41.5 62.3
103 46.7 37.5 56.3





#62

Isopropylbenzene

Concen: 0.023 ppbv

RT: 10.536 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

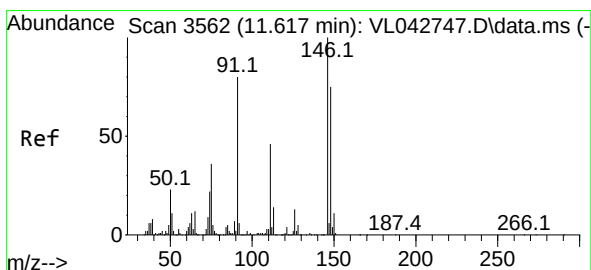
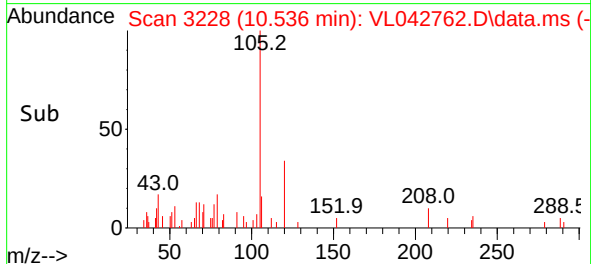
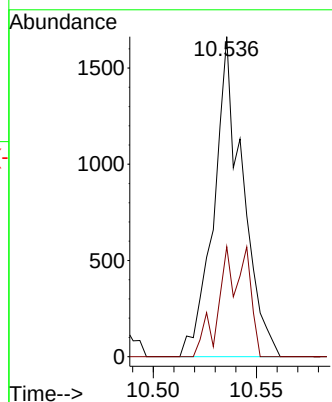
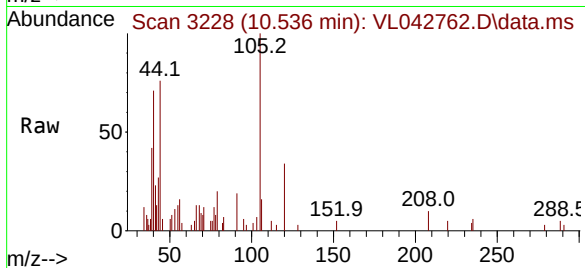
ClientSampleId :

Tgt Ion:105 Resp: 1611

Ion Ratio Lower Upper

105 100

120 33.5 20.5 30.7#



#66

Benzyl Chloride

Concen: 0.033 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

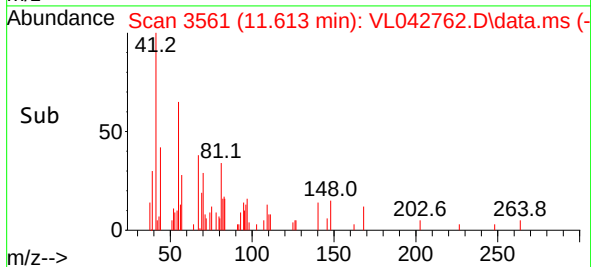
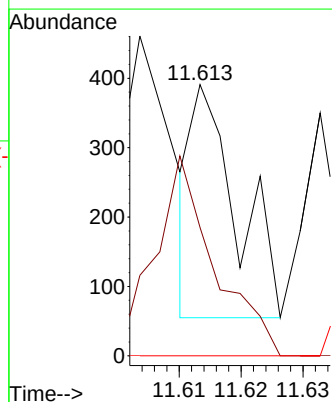
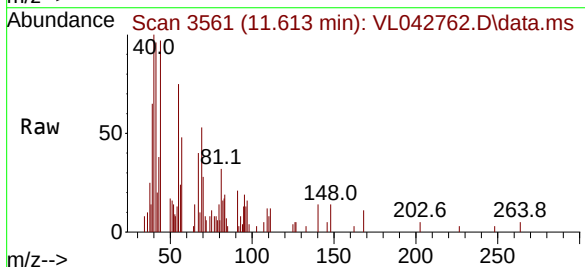
Tgt Ion: 91 Resp: 170

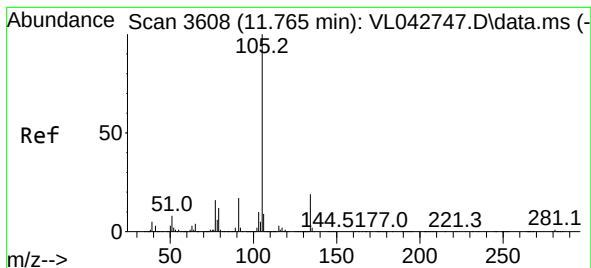
Ion Ratio Lower Upper

91 100

126 186.5 14.4 21.6#

128 0.0 5.2 7.8#





#67

sec-Butylbenzene

Concen: 0.025 ppbv

RT: 11.762 min Scan# 3607

Delta R.T. -0.003 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

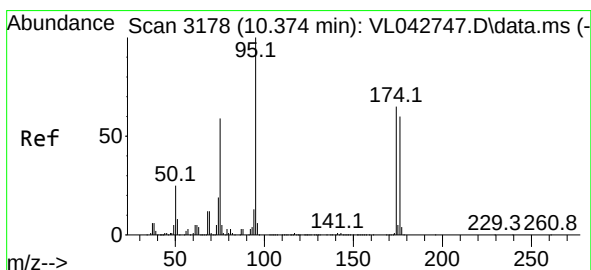
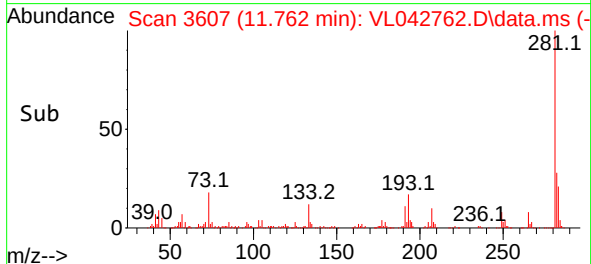
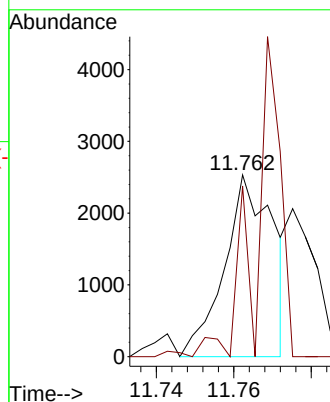
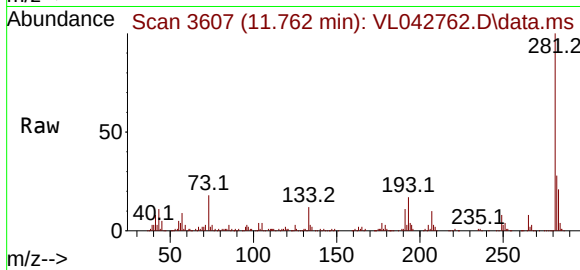
ClientSampleId :

Tgt Ion:105 Resp: 2221

Ion Ratio Lower Upper

105 100

134 96.2 15.5 23.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.141 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.000 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

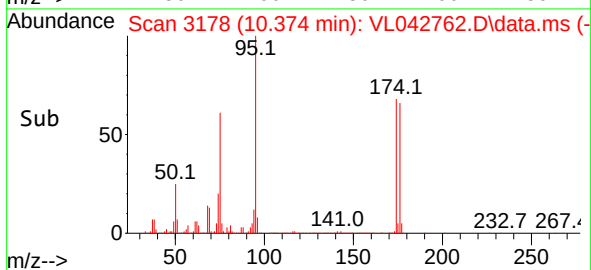
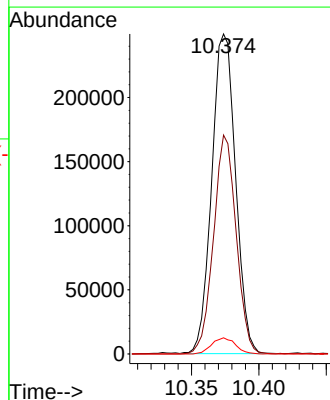
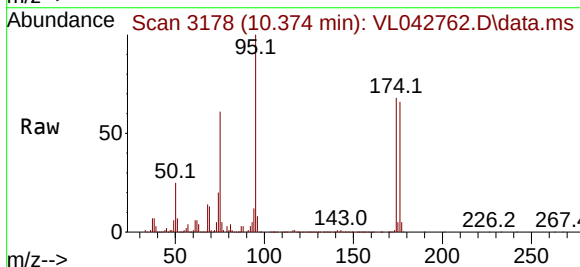
Tgt Ion: 95 Resp: 306627

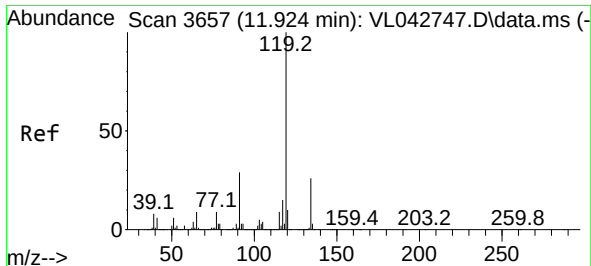
Ion Ratio Lower Upper

95 100

174 65.2 53.8 80.6

175 5.1 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.027 ppbv

RT: 11.921 min Scan# 30

Delta R.T. -0.003 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

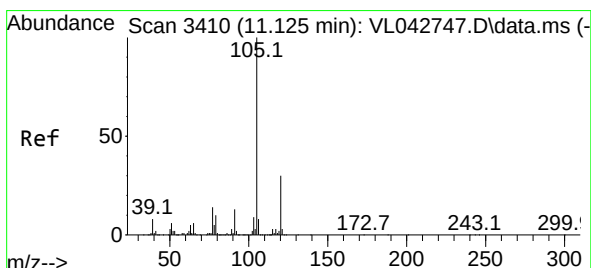
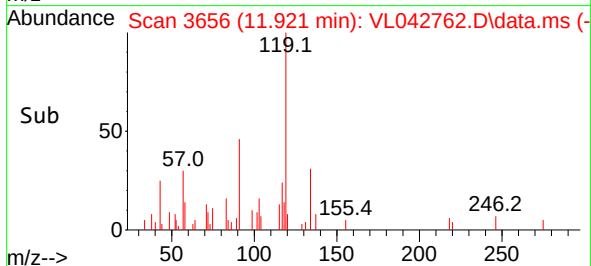
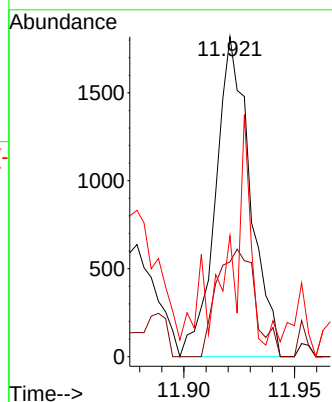
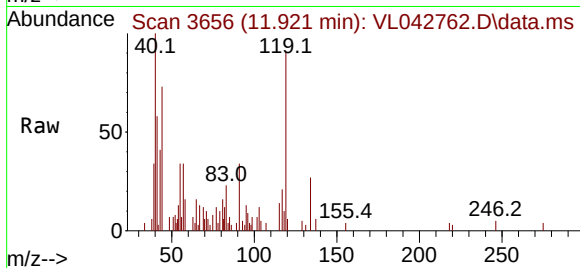
Tgt Ion:119 Resp: 1977

Ion Ratio Lower Upper

119 100

134 39.8 20.6 31.0#

91 50.5 23.2 34.8#



#72

4-Ethyltoluene

Concen: 0.022 ppbv

RT: 11.118 min Scan# 3408

Delta R.T. -0.006 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Tgt Ion:105 Resp: 1240

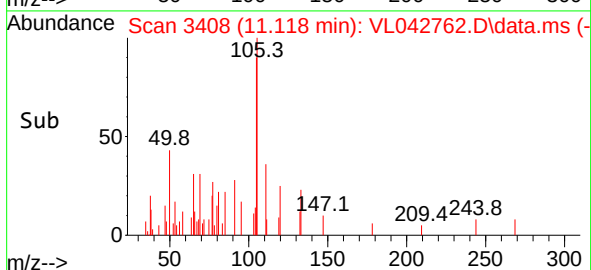
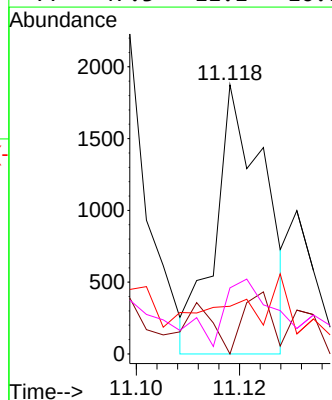
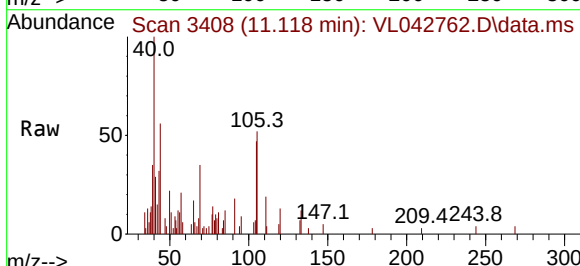
Ion Ratio Lower Upper

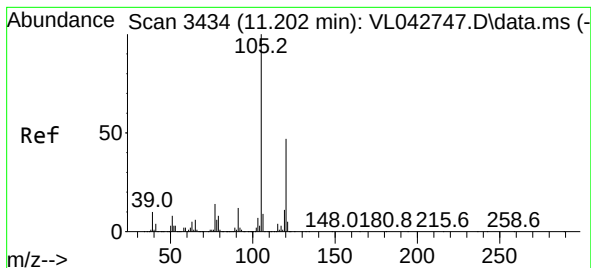
105 100

120 0.0 24.4 36.6#

91 0.0 10.6 15.8#

77 47.3 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.044 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. 0.000 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

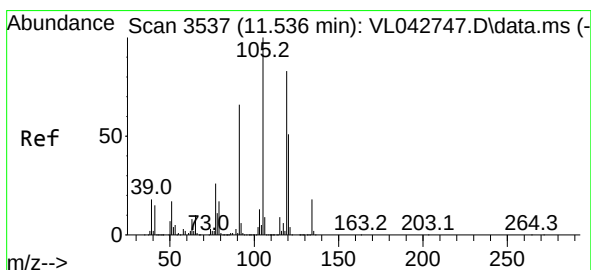
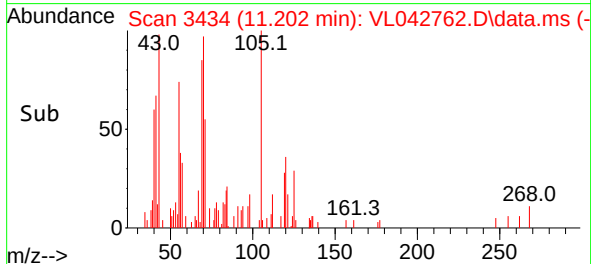
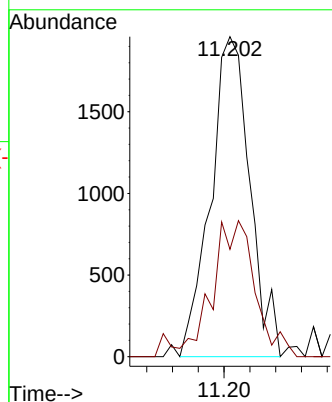
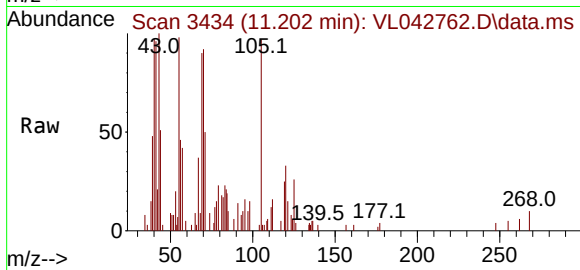
ClientSampleId :

Tgt Ion:105 Resp: 2074

Ion Ratio Lower Upper

105 100

120 30.9 37.8 56.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.138 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Tgt Ion:105 Resp: 7139

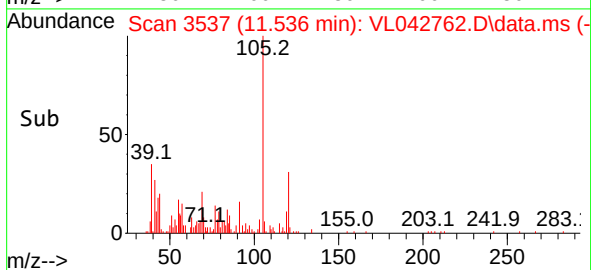
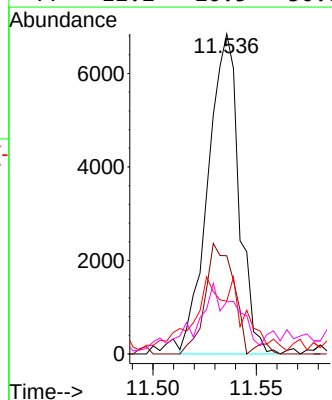
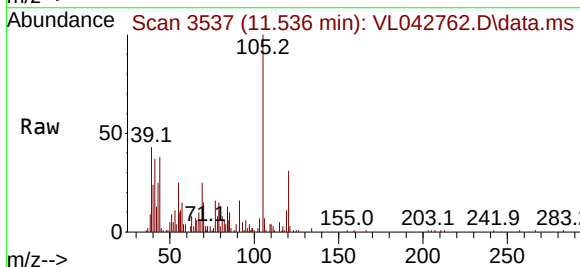
Ion Ratio Lower Upper

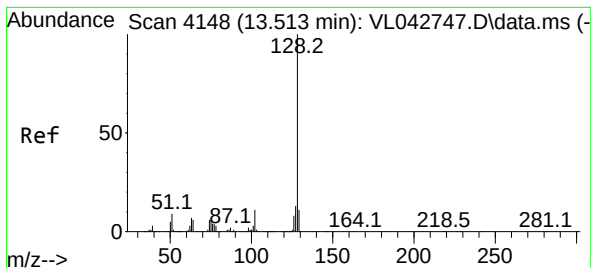
105 100

120 30.7 40.8 61.2#

91 13.8 53.0 79.4#

77 12.2 20.5 30.7#





#79

Naphthalene

Concen: 0.489 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042762.D

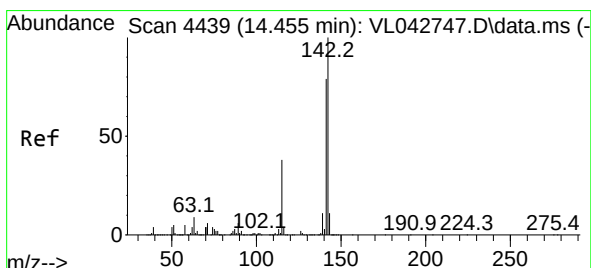
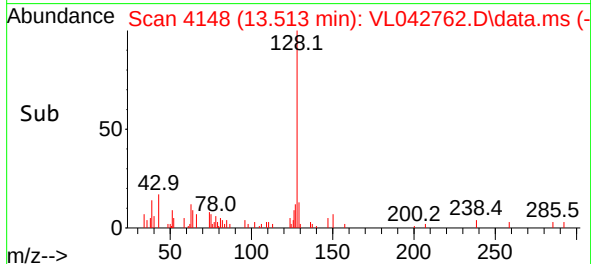
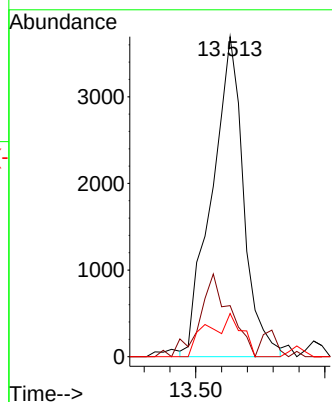
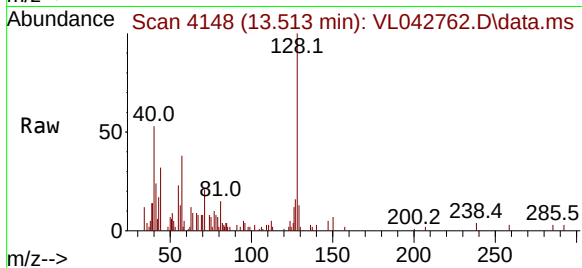
Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:128	Resp:	3165
Ion Ratio	Lower	Upper
128	100	
127	14.2	10.5 15.7
129	13.7	8.6 13.0#



#80

Naphthalene,2-methyl-

Concen: 1.164 ppbv

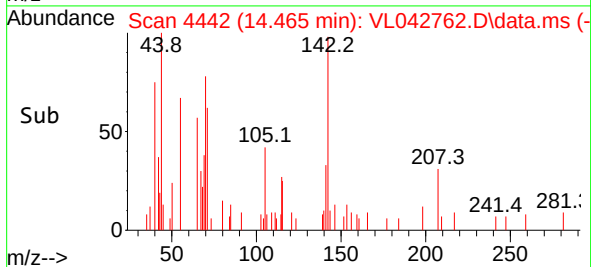
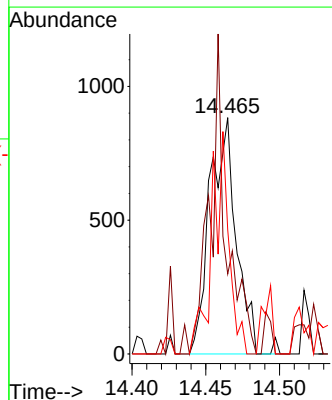
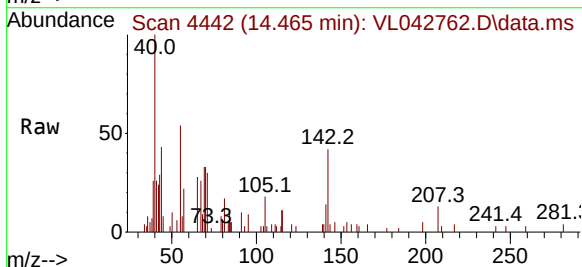
RT: 14.465 min Scan# 4442

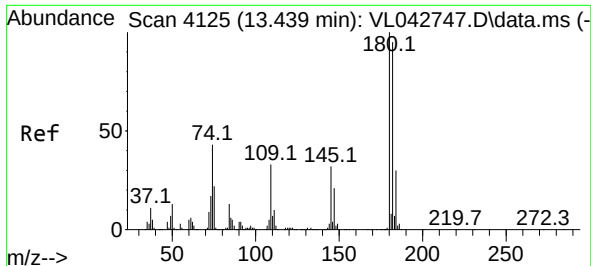
Delta R.T. 0.010 min

Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Tgt Ion:142	Resp:	1112
Ion Ratio	Lower	Upper
142	100	
141	106.7	65.8 98.8#
115	61.5	31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.452 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.000 min

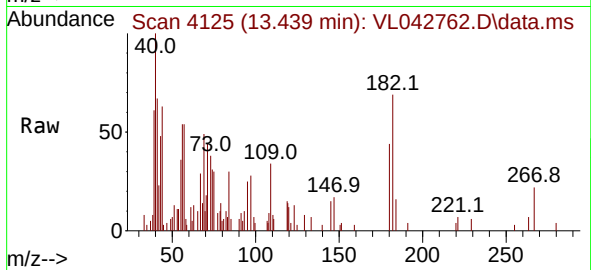
Lab File: VL042762.D

Acq: 24 Jul 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	180	Resp:	554
Ion	Ratio	Lower	Upper
180	100		
182	146.6	76.2	114.2#
184	33.4	24.8	37.2

