

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042086.D
 Acq On : 03 Mar 2025 19:59
 Operator : SY/MD
 Sample : Q1430-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Mar 04 00:22:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163591	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	357663	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	298332	10.000	ppbv	-0.02

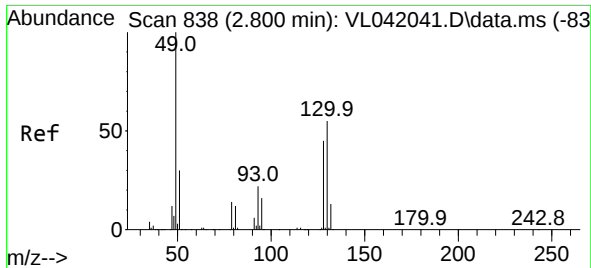
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	219520	9.564	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%

Target Compounds						Qvalue
4) Chloromethane	1.531	50	299	0.048	ppbv	100
6) Bromomethane	1.651	94	119	0.042	ppbv #	2
9) Propene	1.602	41	1521	0.157	ppbv	95
11) Trichlorofluoromethane	1.881	101	659	0.039	ppbv #	42
13) Ethanol	1.722	45	8944	14.546	ppbv #	33
15) Acetone	1.835	43	9246	0.640	ppbv #	80
16) 1,3-Butadiene	1.605	39	1218	0.181	ppbv #	23
17) tert-Butyl alcohol	2.042	59	581	0.032	ppbv #	93
19) Isopropyl Alcohol	1.722	45	8944	1.078	ppbv	90
20) Methylene Chloride	2.062	84	2198	0.402	ppbv #	95
26) Hexane	2.826	57	1581	0.068	ppbv #	45
34) 2-Butanone	2.564	43	13991	0.502	ppbv	96
36) Benzene	3.654	78	1261	0.034	ppbv #	77
39) 1,2-Dichloropropane	3.959	63	97139	6.835	ppbv #	24
52) Tetrachloroethene	8.218	164	1895	0.148	ppbv #	83
53) Toluene	6.930	91	2472	0.059	ppbv #	20
59) m/p-Xylene	9.526	91	1605	0.037	ppbv #	100
60) o-Xylene	9.526	91	1605	0.037	ppbv	73

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

Quant Time: Mar 04 00:22:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

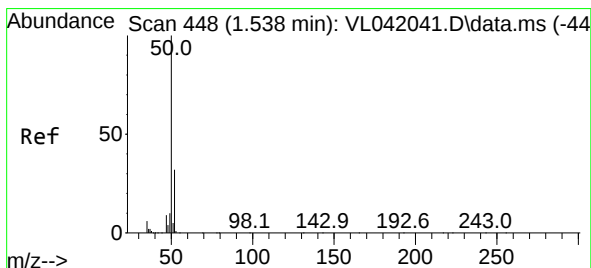
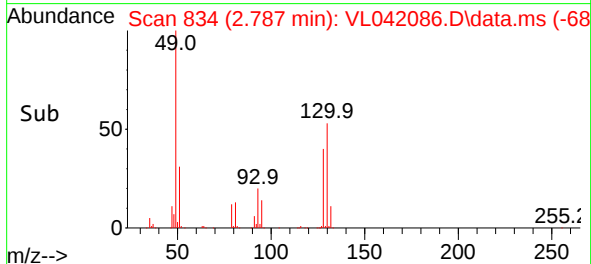
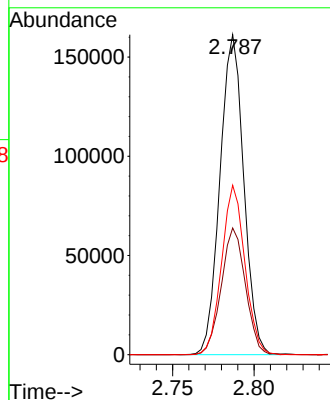
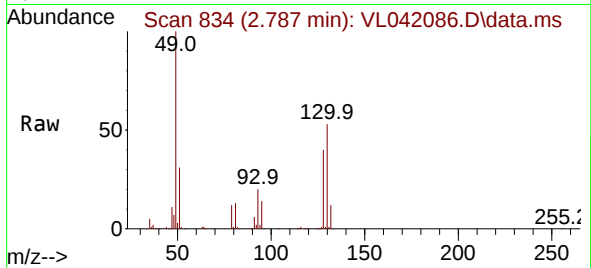




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

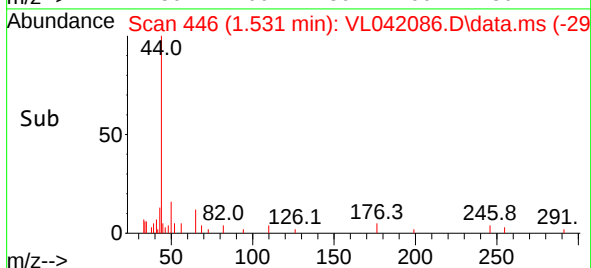
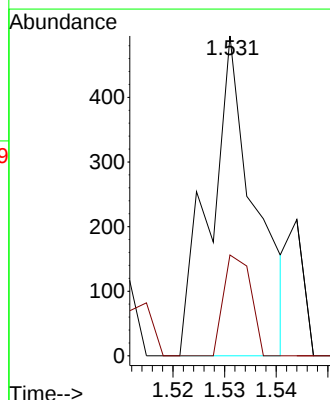
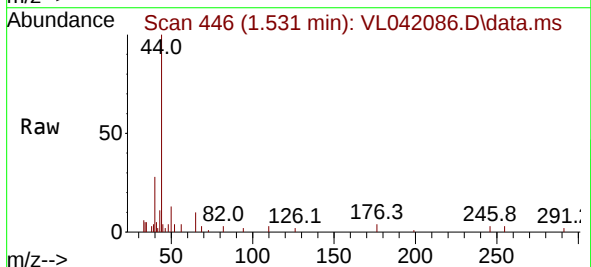
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

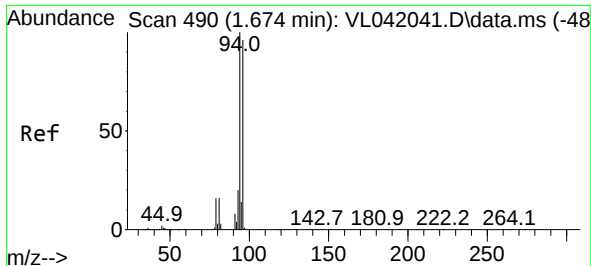
Tgt Ion: 49 Resp: 163591
Ion Ratio Lower Upper
49 100
128 40.2 21.6 64.8
130 51.7 27.8 83.4



#4
Chloromethane
Concen: 0.048 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.007 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

Tgt Ion: 50 Resp: 299
Ion Ratio Lower Upper
50 100
52 31.5 25.4 38.0

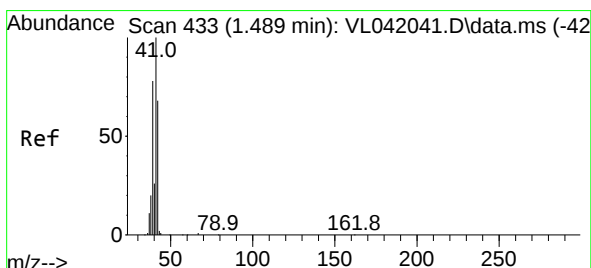
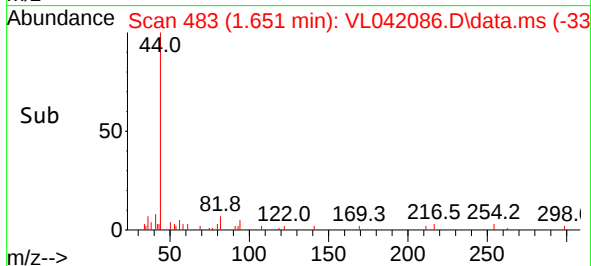
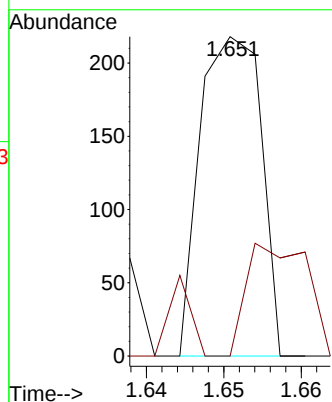
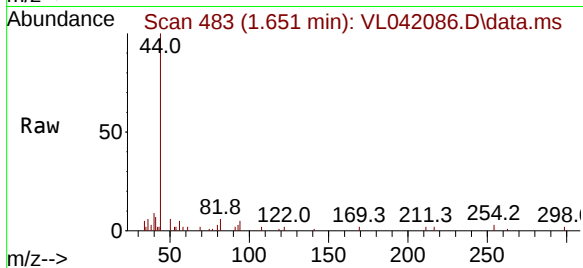




#6
Bromomethane
Concen: 0.042 ppbv
RT: 1.651 min Scan# 411
Delta R.T. -0.023 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

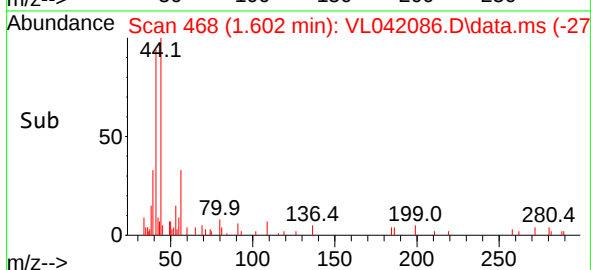
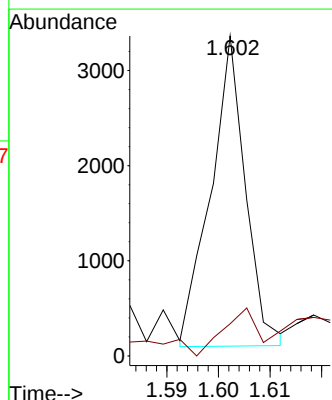
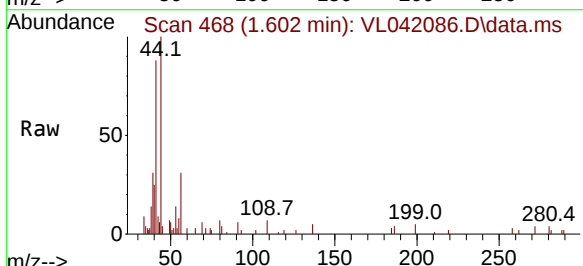
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

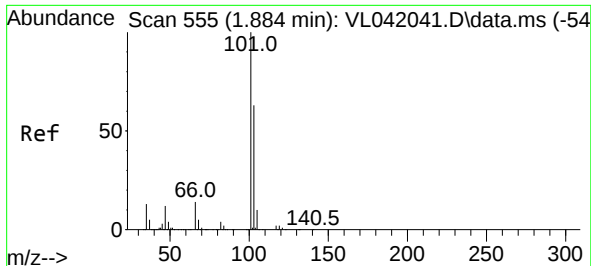
Tgt Ion: 94 Resp: 119
Ion Ratio Lower Upper
94 100
96 0.0 76.5 114.7#



#9
Propene
Concen: 0.157 ppbv
RT: 1.602 min Scan# 468
Delta R.T. 0.113 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

Tgt Ion: 41 Resp: 1521
Ion Ratio Lower Upper
41 100
42 65.6 55.8 83.6

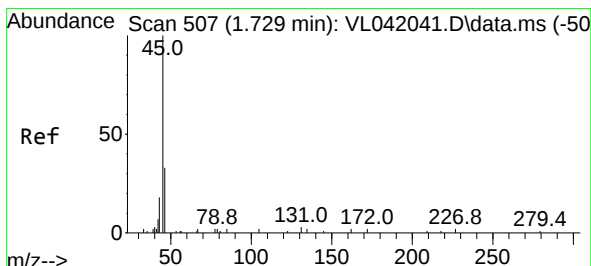
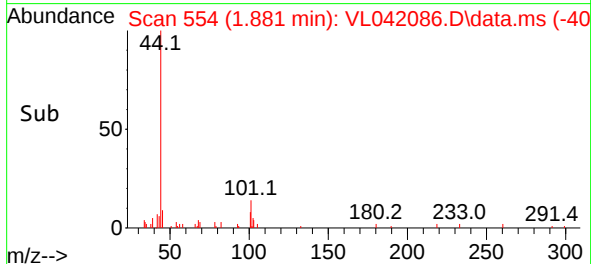
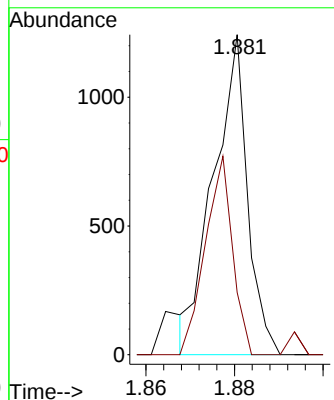
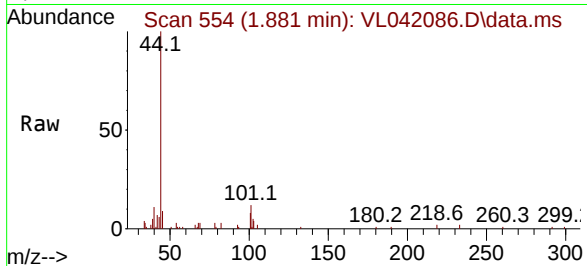




#11
 Trichlorofluoromethane
 Concen: 0.039 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL042086.D
 Acq: 03 Mar 2025 19:59

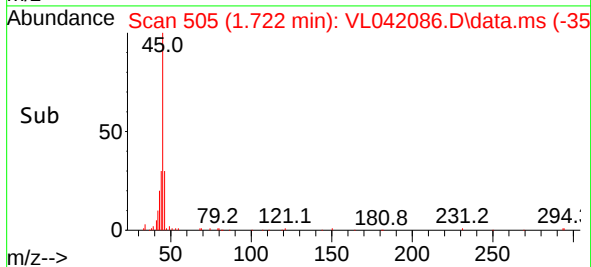
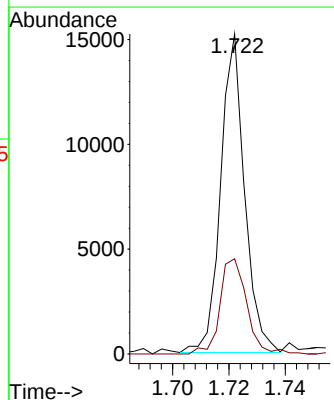
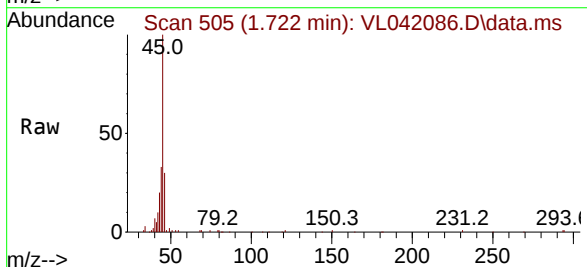
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

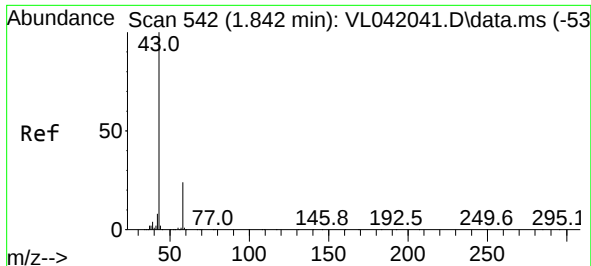
Tgt Ion:101 Resp: 659
 Ion Ratio Lower Upper
 101 100
 103 18.5 50.6 75.8#



#13
 Ethanol
 Concen: 14.546 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. -0.007 min
 Lab File: VL042086.D
 Acq: 03 Mar 2025 19:59

Tgt Ion: 45 Resp: 8944
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.1 68.3#





#15

Acetone

Concen: 0.640 ppbv

RT: 1.835 min Scan# 54

Delta R.T. -0.007 min

Lab File: VL042086.D

Acq: 03 Mar 2025 19:59

Instrument :

MSVOA_L

ClientSampleId :

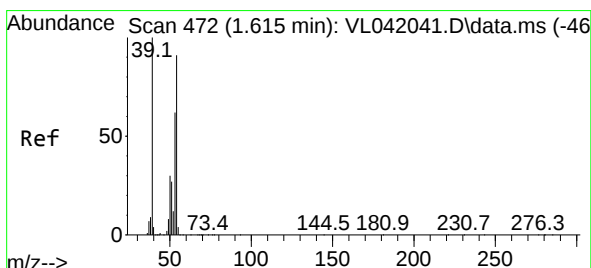
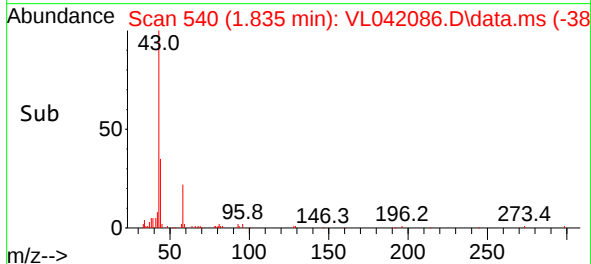
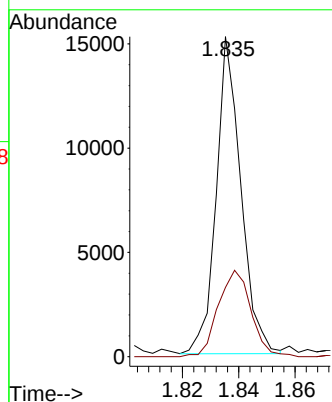
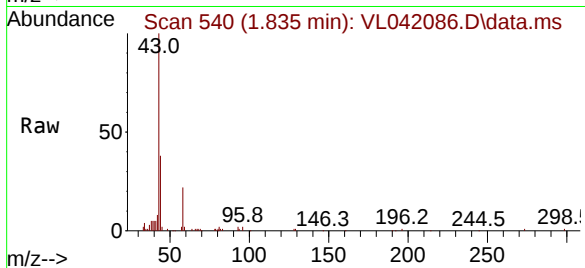
SV1DL

Tgt Ion: 43 Resp: 9246

Ion Ratio Lower Upper

43 100

58 36.3 20.7 31.1#



#16

1,3-Butadiene

Concen: 0.181 ppbv

RT: 1.605 min Scan# 469

Delta R.T. -0.010 min

Lab File: VL042086.D

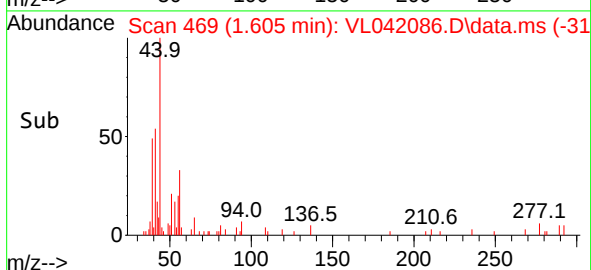
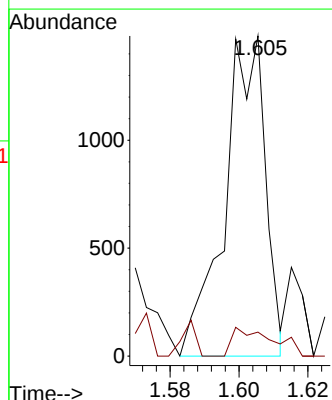
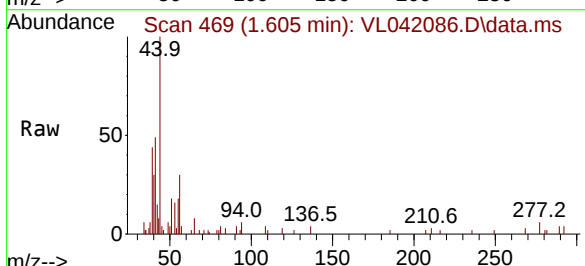
Acq: 03 Mar 2025 19:59

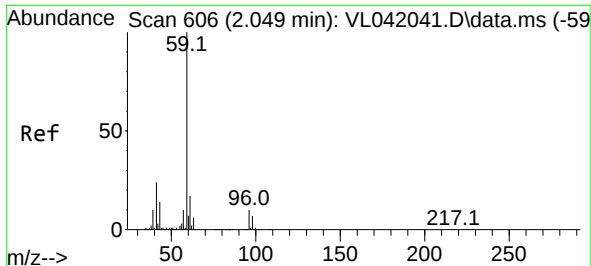
Tgt Ion: 39 Resp: 1218

Ion Ratio Lower Upper

39 100

54 8.9 59.6 89.4#





#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 2.042 min Scan# 606

Delta R.T. -0.007 min

Lab File: VL042086.D

Acq: 03 Mar 2025 19:59

Instrument :

MSVOA_L

ClientSampleId :

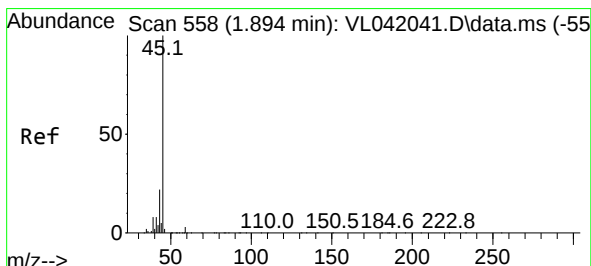
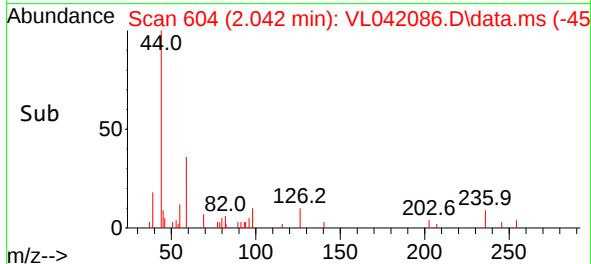
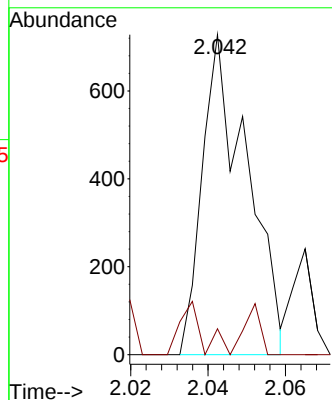
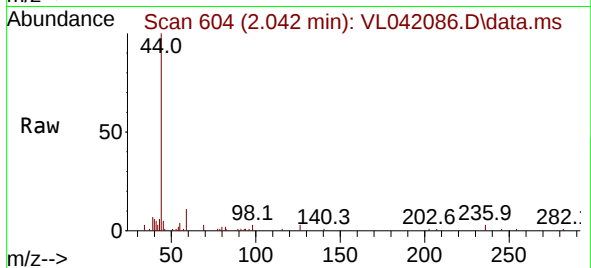
SV1DL

Tgt Ion: 59 Resp: 581

Ion Ratio Lower Upper

59 100

57 14.3 9.3 13.9#



#19

Isopropyl Alcohol

Concen: 1.078 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.172 min

Lab File: VL042086.D

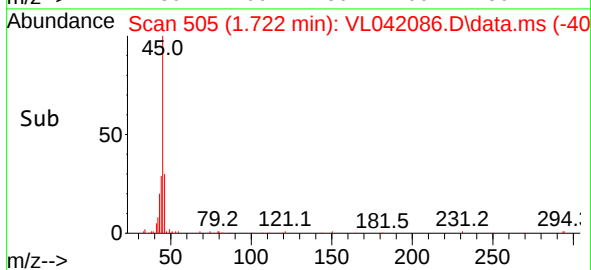
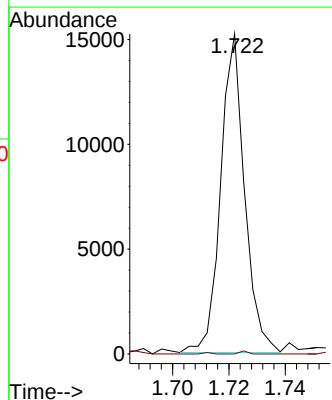
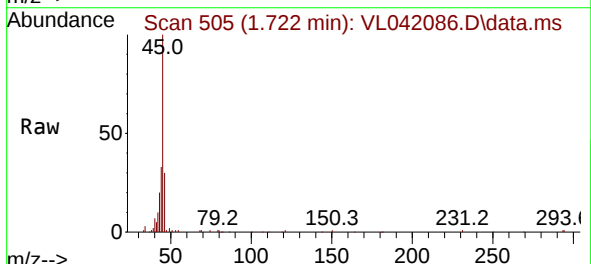
Acq: 03 Mar 2025 19:59

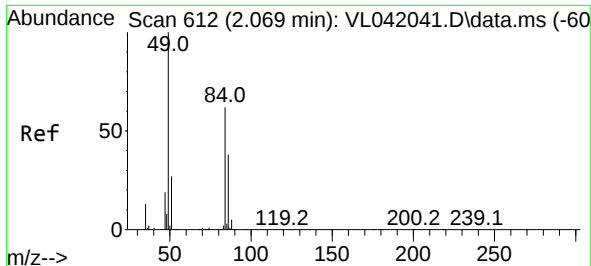
Tgt Ion: 45 Resp: 8944

Ion Ratio Lower Upper

45 100

58 37.4 35.3 52.9

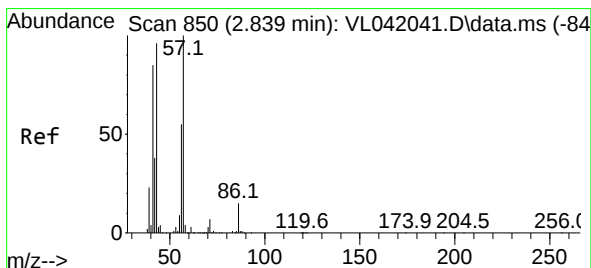
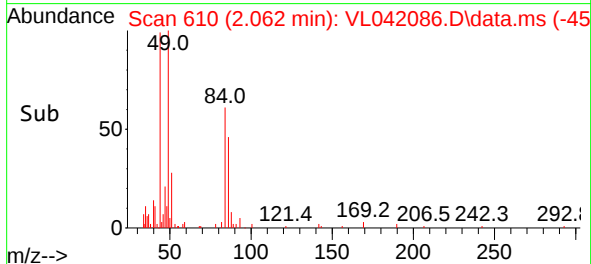
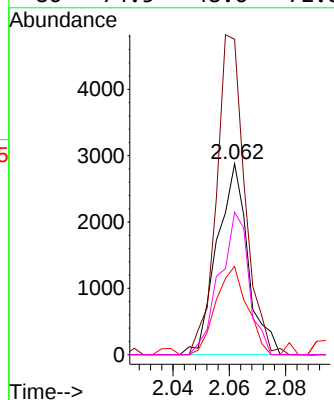
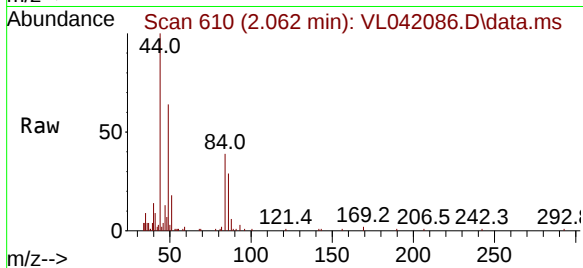




#20
Methylene Chloride
Concen: 0.402 ppbv
RT: 2.062 min Scan# 612
Delta R.T. -0.007 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

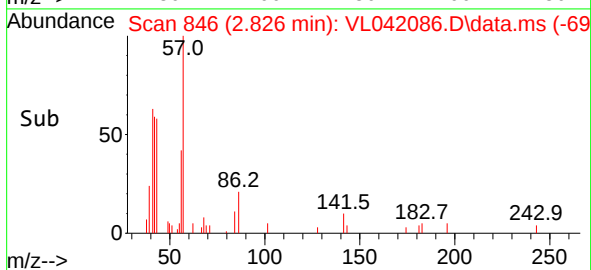
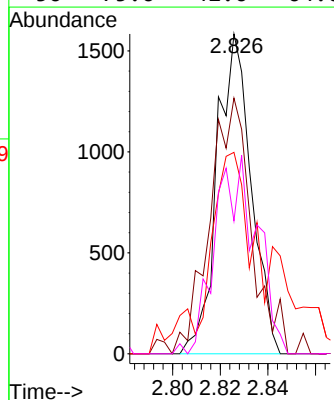
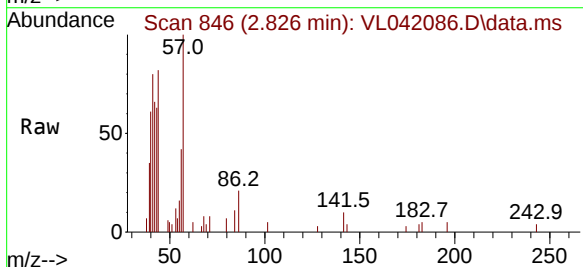
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

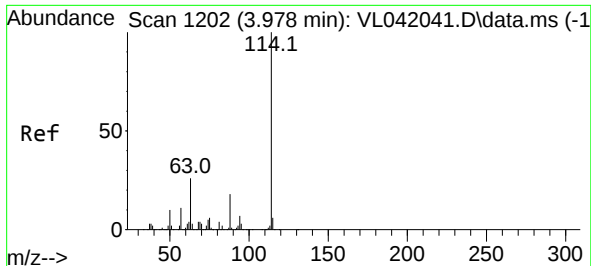
Tgt Ion: 84 Resp: 2198
Ion Ratio Lower Upper
84 100
49 165.1 130.0 195.0
51 46.2 37.4 56.0
86 74.5 48.6 72.8#



#26
Hexane
Concen: 0.068 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.013 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

Tgt Ion: 57 Resp: 1581
Ion Ratio Lower Upper
57 100
41 98.6 70.6 106.0
43 116.3 199.4 299.0#
56 75.6 42.6 64.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.020 min

Lab File: VL042086.D

Acq: 03 Mar 2025 19:59

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

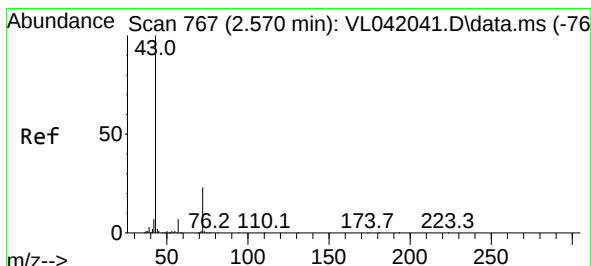
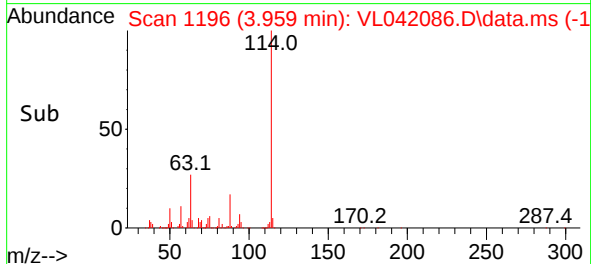
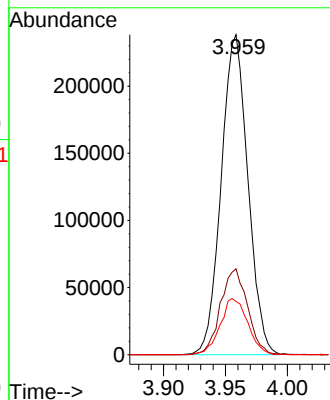
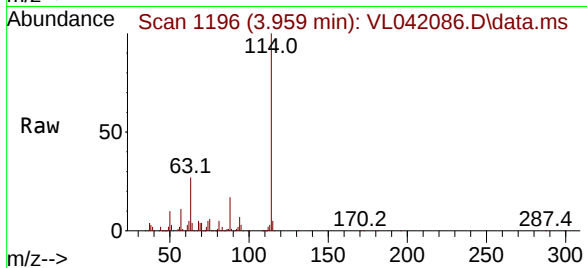
Tgt Ion:114 Resp: 357663

Ion Ratio Lower Upper

114 100

63 27.2 20.1 30.1

88 18.1 14.3 21.5



#34

2-Butanone

Concen: 0.502 ppbv

RT: 2.564 min Scan# 765

Delta R.T. -0.007 min

Lab File: VL042086.D

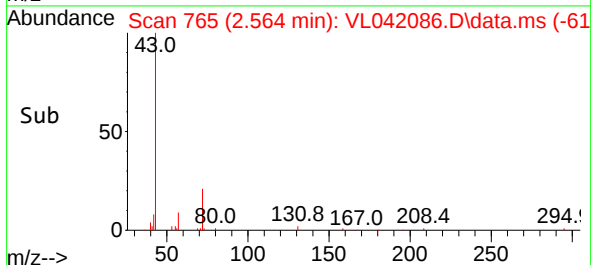
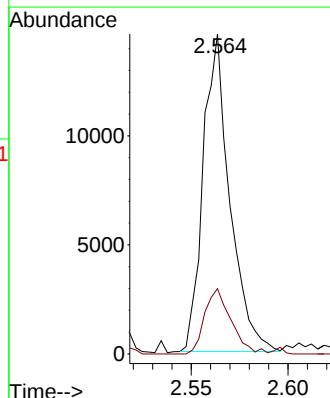
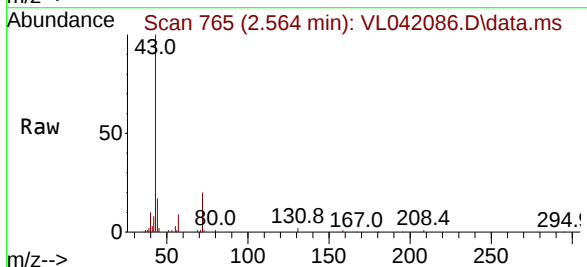
Acq: 03 Mar 2025 19:59

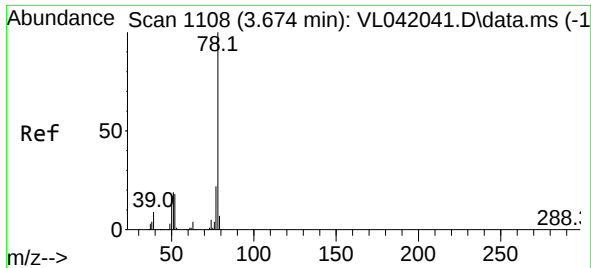
Tgt Ion: 43 Resp: 13991

Ion Ratio Lower Upper

43 100

72 21.0 18.5 27.7

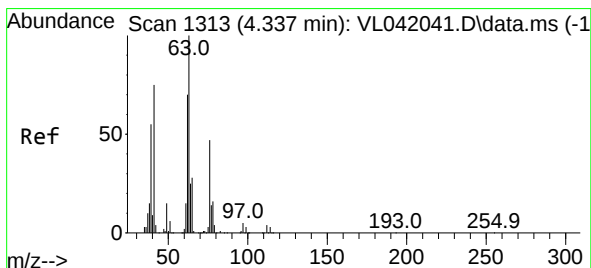
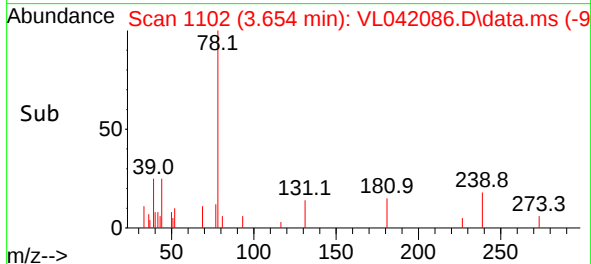
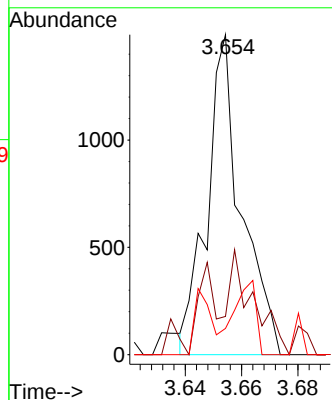
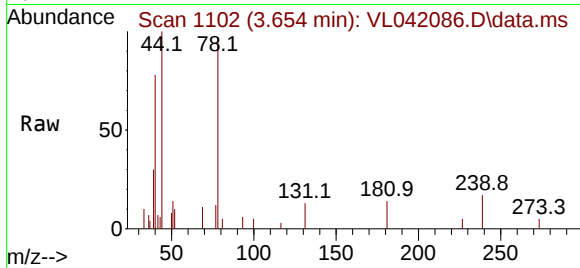




#36
Benzene
Concen: 0.034 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.020 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

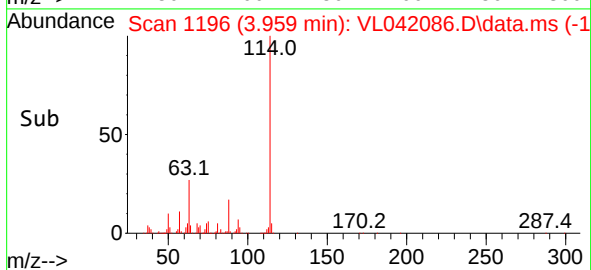
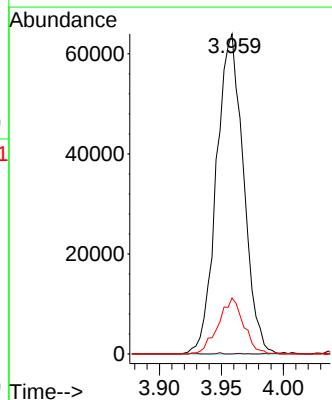
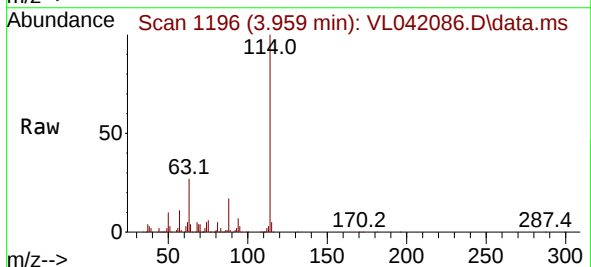
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

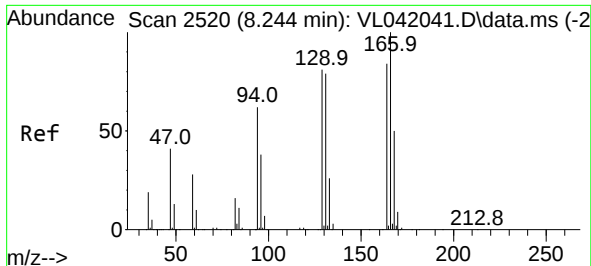
Tgt Ion: 78 Resp: 1261
Ion Ratio Lower Upper
78 100
77 7.0 17.7 26.5#
50 22.9 13.9 20.9#



#39
1,2-Dichloropropane
Concen: 6.835 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.379 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

Tgt Ion: 63 Resp: 97139
Ion Ratio Lower Upper
63 100
41 0.0 60.1 90.1#
62 17.5 55.8 83.8#

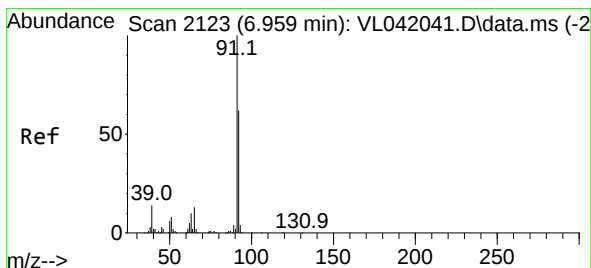
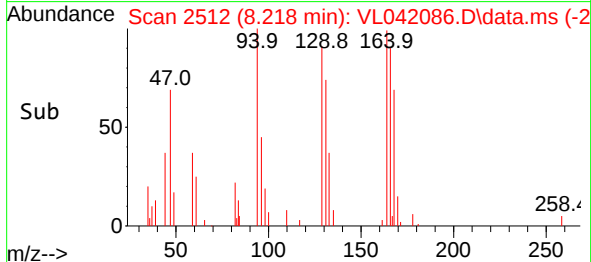
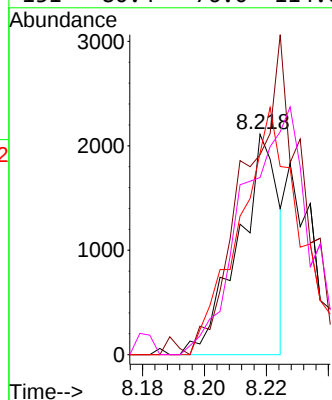
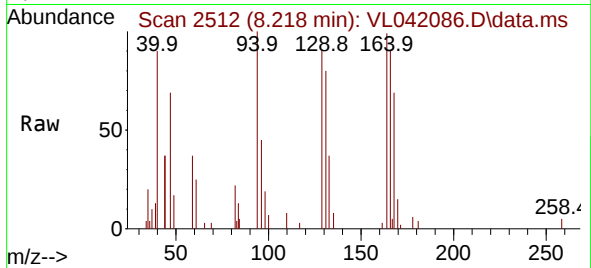




#52
Tetrachloroethene
Concen: 0.148 ppbv
RT: 8.218 min Scan# 2114
Delta R.T. -0.026 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

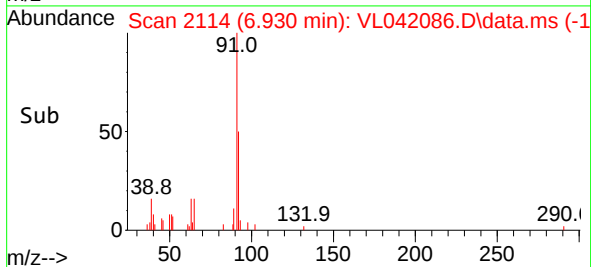
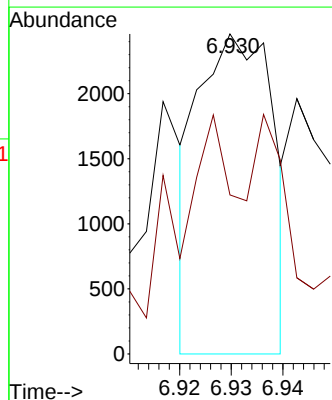
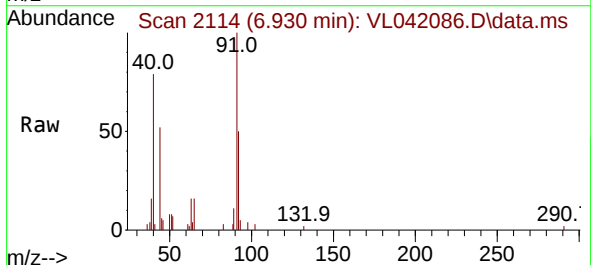
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

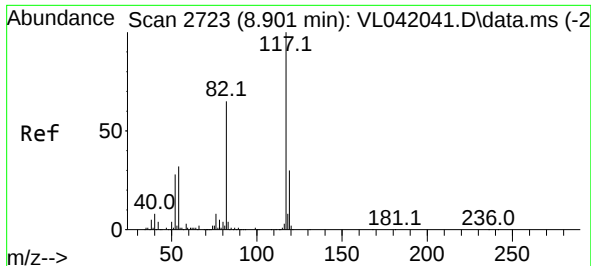
Tgt Ion:164 Resp: 1895
Ion Ratio Lower Upper
164 100
166 87.9 95.7 143.5#
129 91.5 77.1 115.7
131 80.4 76.0 114.0



#53
Toluene
Concen: 0.059 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.029 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

Tgt Ion: 91 Resp: 2472
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6#

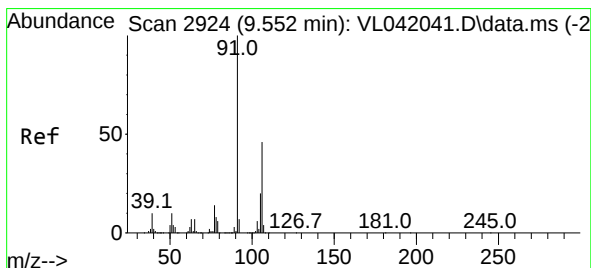
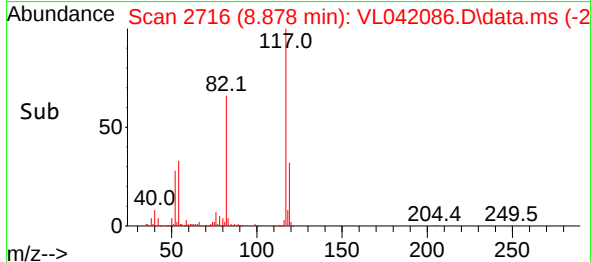
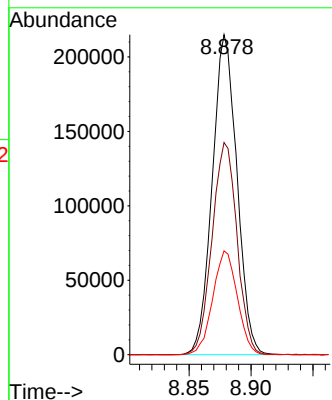
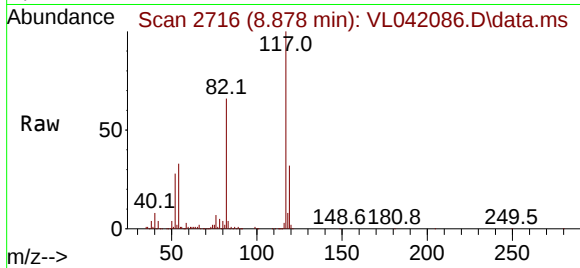




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

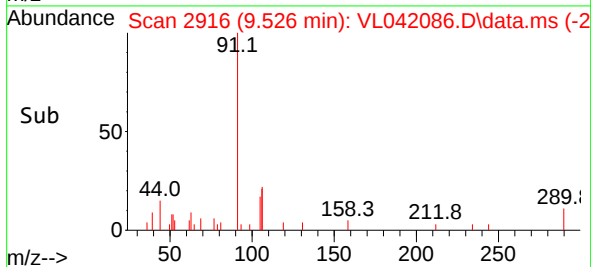
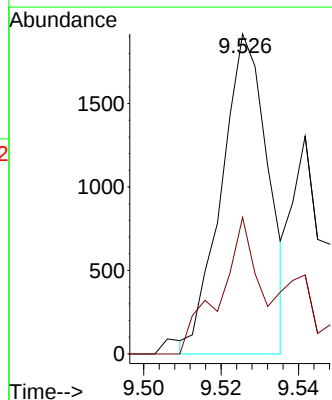
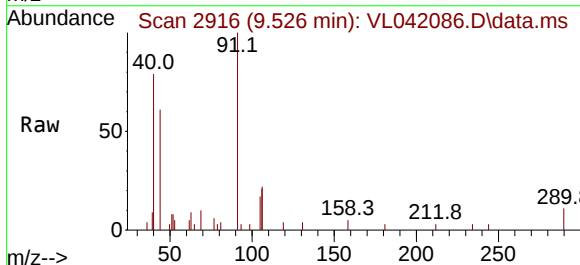
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

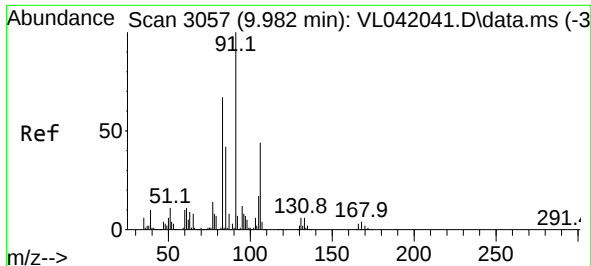
Tgt Ion:117 Resp: 298332
Ion Ratio Lower Upper
117 100
82 67.0 55.0 82.6
119 32.4 25.9 38.9



#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

Tgt Ion: 91 Resp: 1605
Ion Ratio Lower Upper
91 100
106 62.1 0.0 0.0#

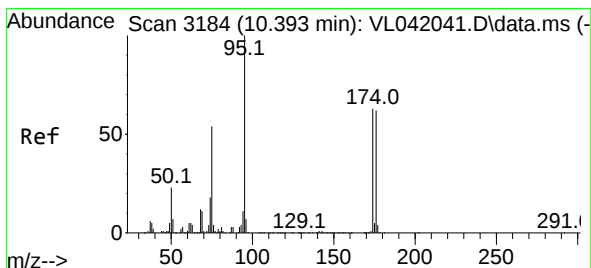
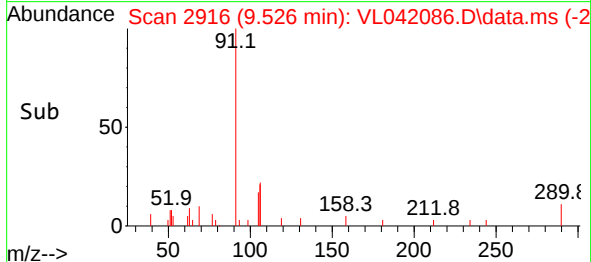
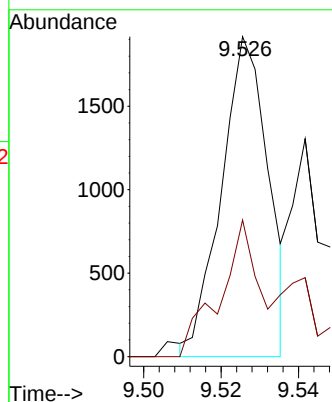
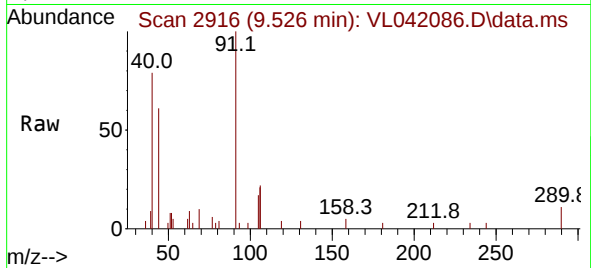




#60
o-Xylene
Concen: 0.037 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.457 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 91 Resp: 1605
Ion Ratio Lower Upper
91 100
106 62.1 22.3 66.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.564 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.020 min
Lab File: VL042086.D
Acq: 03 Mar 2025 19:59

Tgt Ion: 95 Resp: 219520
Ion Ratio Lower Upper
95 100
174 61.3 51.8 77.6
175 4.3 3.9 5.9

