

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
 Data File : VL042628.D
 Acq On : 16 Jun 2025 14:35
 Operator : SY/MD
 Sample : Q2317-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 115-IA-1

Quant Time: Jun 17 03:05:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	106724	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	298270	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	259856	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	202110	10.376	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6121	0.467	ppbv	92
3) Chlorodifluoromethane	1.466	51	235861	13.056	ppbv #	62
4) Chloromethane	1.531	50	3698	0.712	ppbv	99
7) Chloroethane	1.492	64	316	0.154	ppbv #	72
9) Propene	1.560	41	75912	10.435	ppbv	92
10) Heptane	4.981	43	2916	0.142	ppbv	99
11) Trichlorofluoromethane	1.878	101	98869	8.101	ppbv	99
12) 1,1,2-Trichlorotrifluo...	1.878	101	98869	10.317	ppbv #	15
13) Ethanol	1.722	45	773828	892.541	ppbv	96
15) Acetone	1.835	43	492820	38.336	ppbv	97
16) 1,3-Butadiene	1.622	39	149481	24.547	ppbv #	15
17) tert-Butyl alcohol	1.884	59	13305	0.993	ppbv	99
19) Isopropyl Alcohol	1.884	45	384826	50.075	ppbv	91
20) Methylene Chloride	2.062	84	5435	1.281	ppbv	97
21) Allyl Chloride	1.965	41	10689	1.178	ppbv #	21
23) Vinyl Acetate	2.454	43	14570	0.838	ppbv #	94
25) Ethyl Acetate	2.832	43	126658	3.600	ppbv	97
26) Hexane	2.826	57	65240	4.081	ppbv	86
27) Carbon Disulfide	2.149	76	809	0.066	ppbv #	1
29) Chloroform	2.849	83	11988	0.577	ppbv	100
31) cis-1,2-Dichloroethene	2.839	61	9985	0.683	ppbv #	23
34) 2-Butanone	2.557	43	44583	2.096	ppbv	99
35) Carbon Tetrachloride	3.765	117	1506	0.076	ppbv	84
36) Benzene	3.654	78	9676	0.329	ppbv	98
37) 1,2-Dichloroethane	3.214	62	1375	0.094	ppbv #	78
38) Trichloroethene	4.548	130	407	0.033	ppbv #	48
39) 1,2-Dichloropropane	3.955	63	74018	6.814	ppbv #	23
41) Tetrahydrofuran	3.059	42	17246	1.385	ppbv	96
44) 2,2,4-Trimethylpentane	4.642	57	7963	0.158	ppbv #	64
50) 4-Methyl-2-Pentanone	5.762	43	3117	0.106	ppbv #	13
51) 2-Hexanone	7.451	43	749	0.032	ppbv #	43
52) Tetrachloroethene	8.225	164	397	0.036	ppbv #	73
53) Toluene	6.930	91	25563	0.753	ppbv	100
58) Ethyl Benzene	9.532	91	13470	0.306	ppbv	89
59) m/p-Xylene	9.532	91	13470	0.388	ppbv	94
60) o-Xylene	9.966	91	5491	0.159	ppbv	90
61) Styrene	9.869	104	2154	0.132	ppbv #	81
64) n-propylbenzene	10.985	120	561	0.041	ppbv #	5
65) tert-Butylbenzene	11.536	119	1719	0.037	ppbv #	1
66) Benzyl Chloride	11.545	91	4533	0.759	ppbv #	70
67) sec-Butylbenzene	12.044	105	26735	0.410	ppbv	99
69) p-Isopropyltoluene	11.924	119	29010	0.531	ppbv	95
70) n-Butylbenzene	12.348	91	8911	0.165	ppbv #	82

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
 Data File : VL042628.D
 Acq On : 16 Jun 2025 14:35
 Operator : SY/MD
 Sample : Q2317-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 115-IA-1

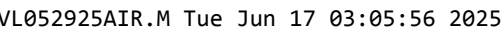
Quant Time: Jun 17 03:05:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

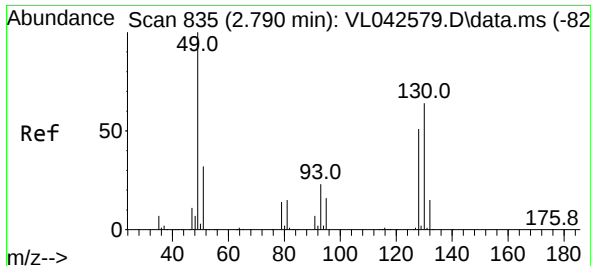
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

71) 2-Chlorotoluene	11.358	91	1437	0.037	ppbv	68
72) 4-Ethyltoluene	11.128	105	3475	0.081	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.206	105	2791	0.078	ppbv	92
74) 1,2,4-Trimethylbenzene	11.532	105	11072	0.279	ppbv #	71
75) 1,3-Dichlorobenzene	11.672	146	430999	17.325	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	430999	17.371	ppbv	99
77) 1,2-Dichlorobenzene	11.672	146	430999	17.851	ppbv	98
79) Naphthalene	13.513	128	2932	0.079	ppbv #	94

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

Quant Time: Jun 17 03:05:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

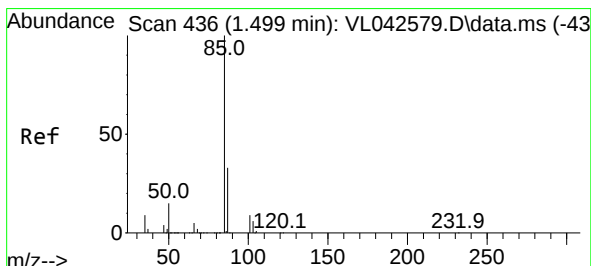
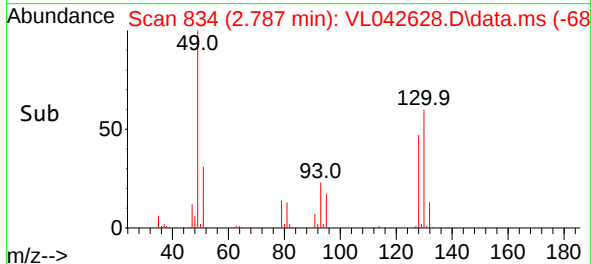
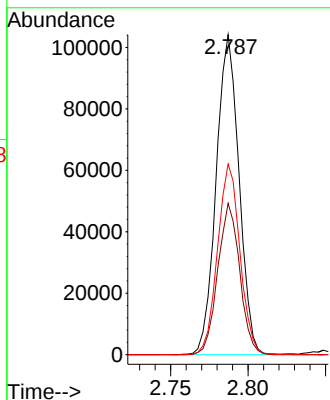
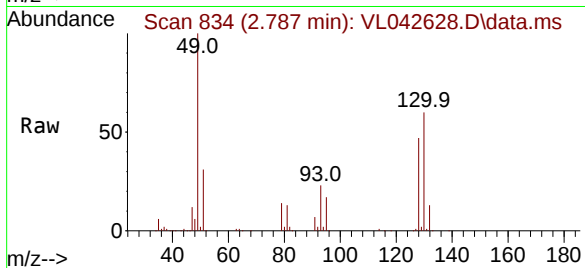




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

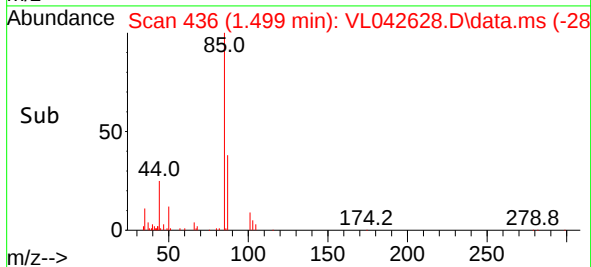
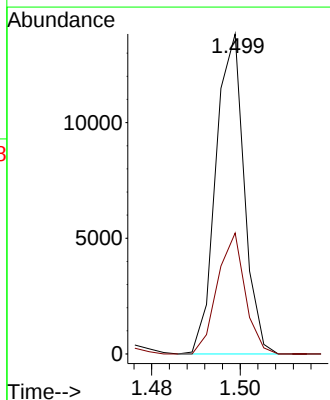
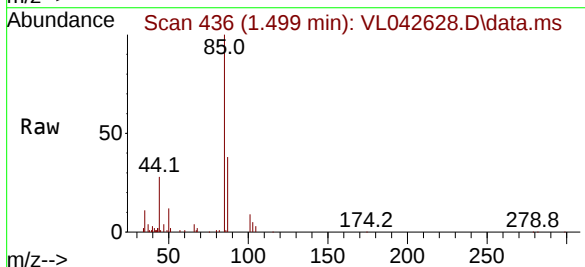
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

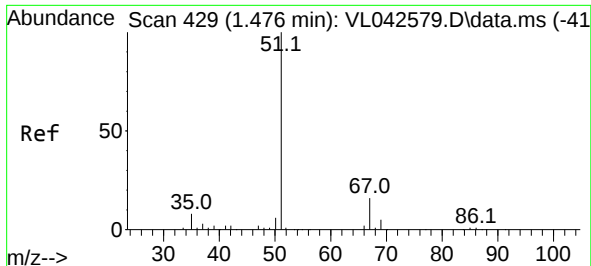
Tgt Ion: 49 Resp: 106724
Ion Ratio Lower Upper
49 100
128 45.4 24.2 72.6
130 58.3 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.467 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 85 Resp: 6121
Ion Ratio Lower Upper
85 100
87 37.8 26.6 39.8

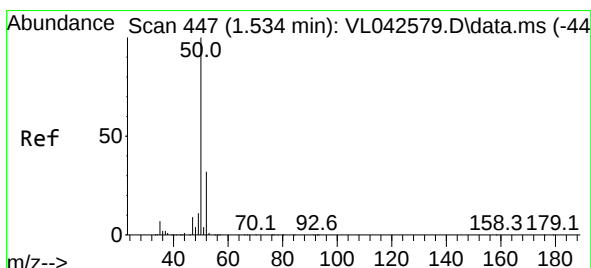
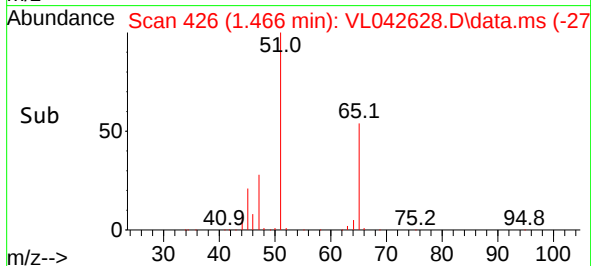
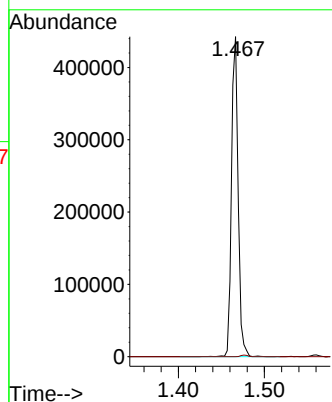
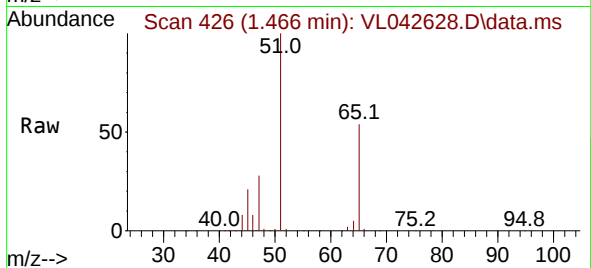




#3
Chlorodifluoromethane
Concen: 13.056 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

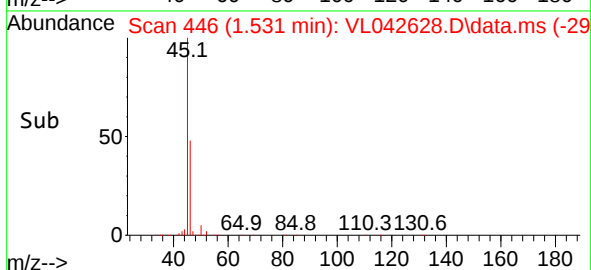
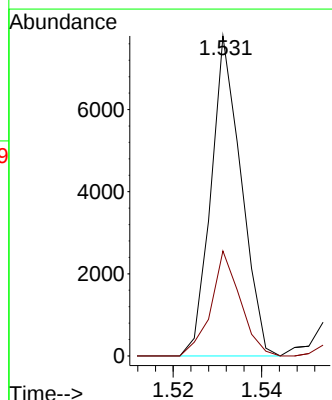
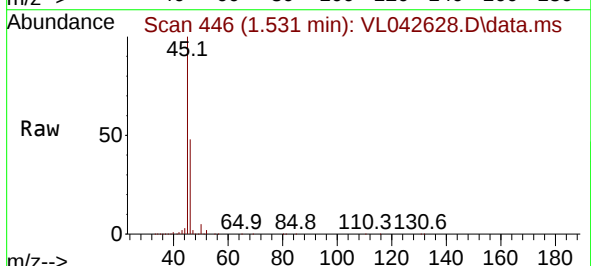
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

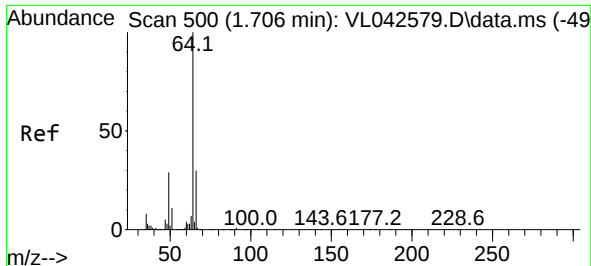
Tgt Ion: 51 Resp: 235861
Ion Ratio Lower Upper
51 100
67 0.5 13.4 20.2#



#4
Chloromethane
Concen: 0.712 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 50 Resp: 3698
Ion Ratio Lower Upper
50 100
52 32.8 25.8 38.6

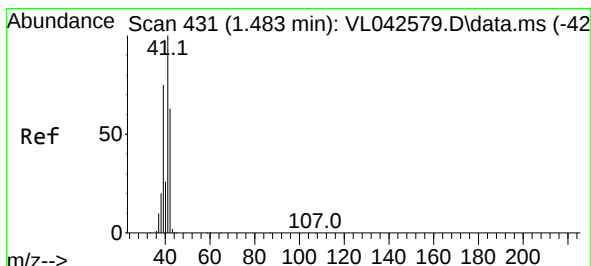
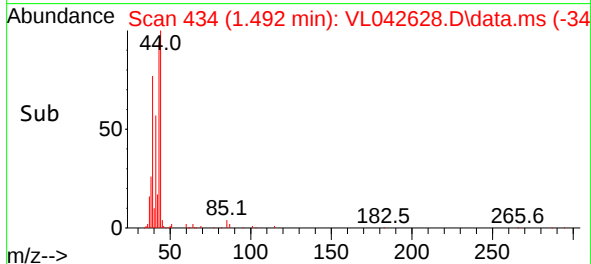
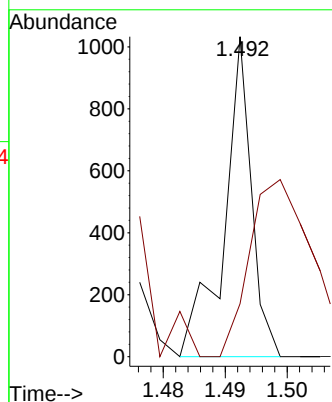
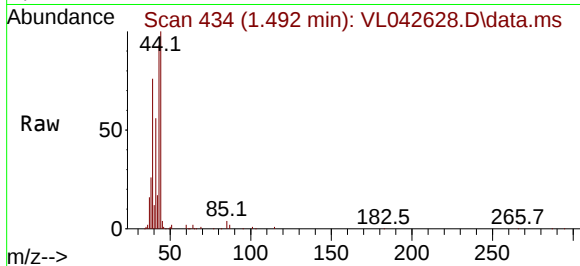




#7
Chloroethane
Concen: 0.154 ppbv
RT: 1.492 min Scan# 411
Delta R.T. -0.214 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

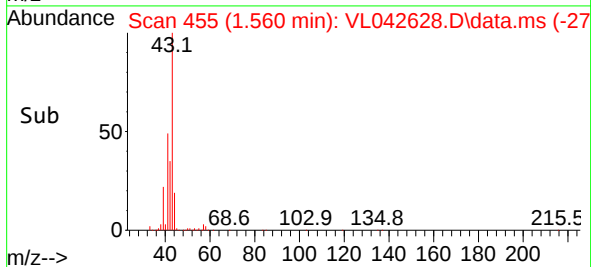
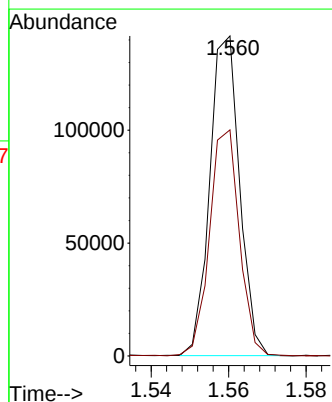
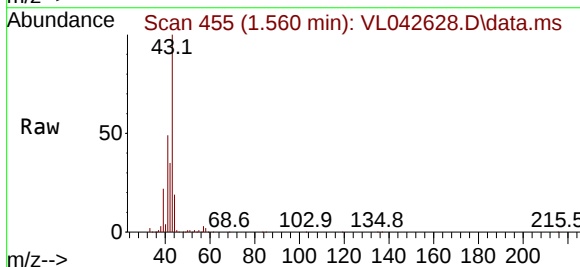
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

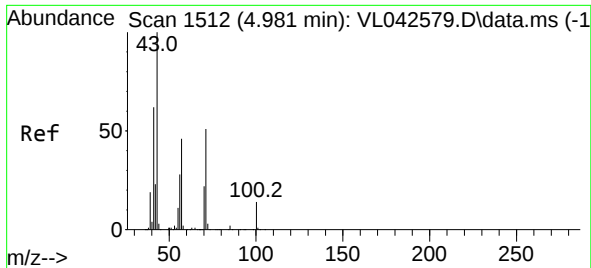
Tgt Ion: 64 Resp: 316
Ion Ratio Lower Upper
64 100
66 15.3 24.3 36.5#



#9
Propene
Concen: 10.435 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 41 Resp: 75912
Ion Ratio Lower Upper
41 100
42 73.1 53.3 79.9

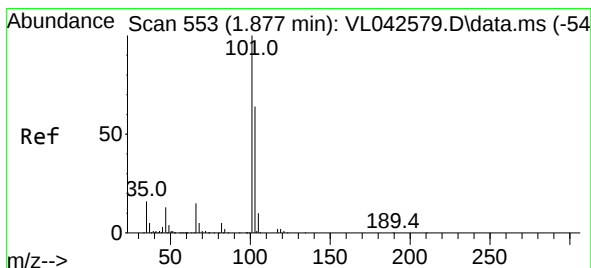
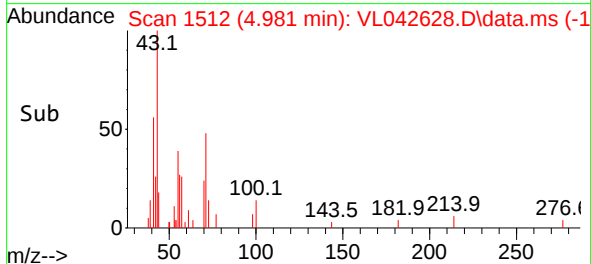
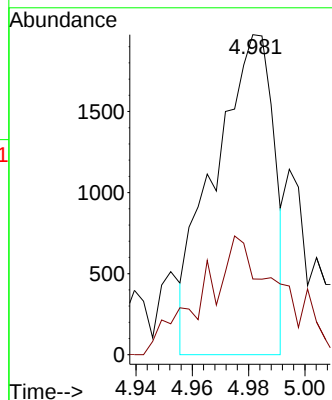
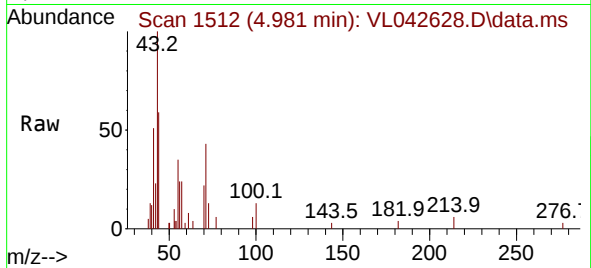




#10
 Heptane
 Concen: 0.142 ppbv
 RT: 4.981 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VL042628.D
 Acq: 16 Jun 2025 14:35

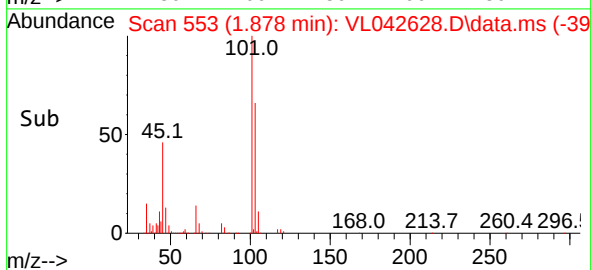
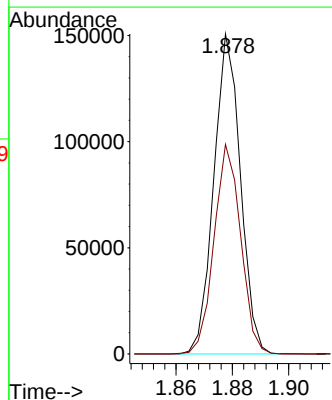
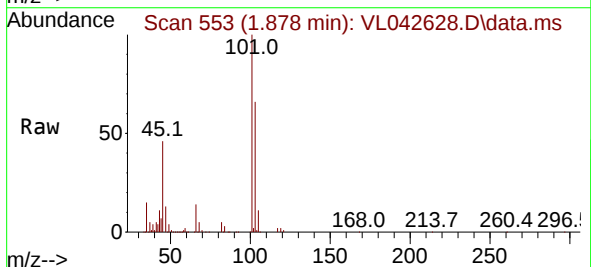
Instrument :
 MSVOA_L
 ClientSampleId :
 115-IA-1

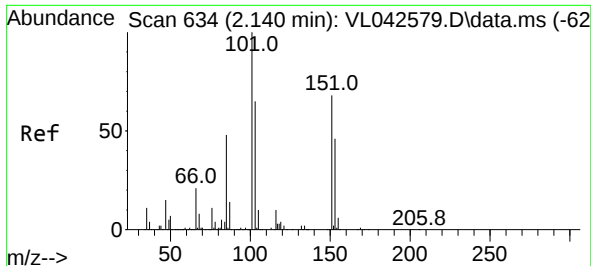
Tgt Ion: 43 Resp: 2916
 Ion Ratio Lower Upper
 43 100
 57 48.1 38.9 58.3



#11
 Trichlorofluoromethane
 Concen: 8.101 ppbv
 RT: 1.878 min Scan# 553
 Delta R.T. 0.000 min
 Lab File: VL042628.D
 Acq: 16 Jun 2025 14:35

Tgt Ion: 101 Resp: 98869
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.5 77.3

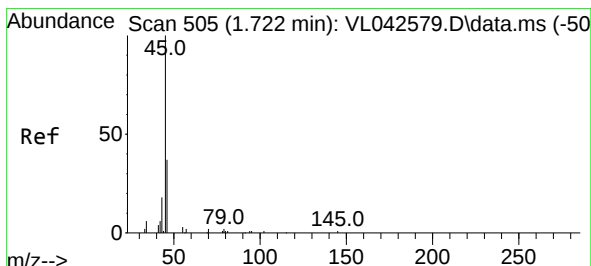
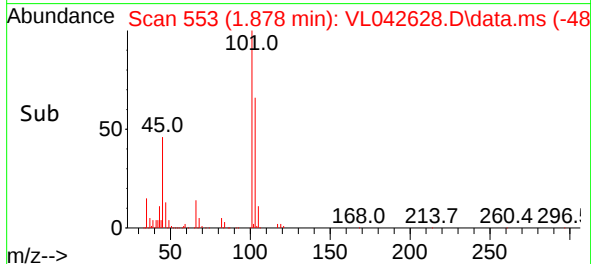
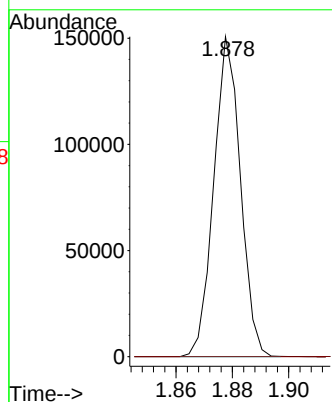
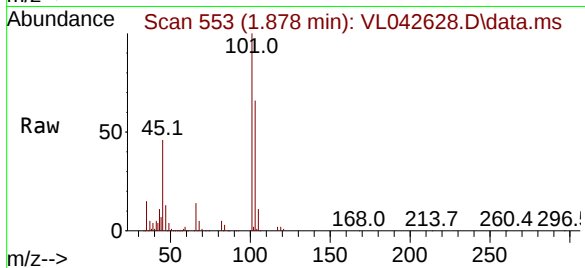




#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.317 ppbv
RT: 1.878 min Scan# 511
Delta R.T. -0.262 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

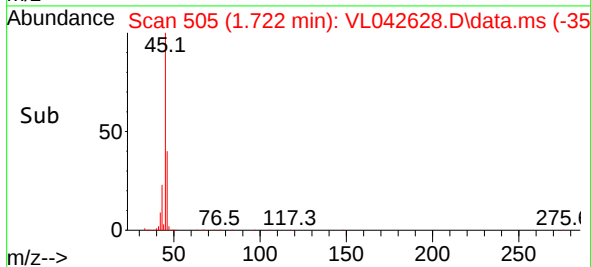
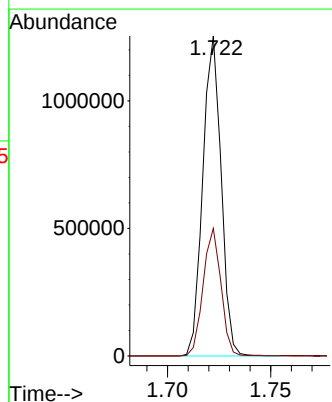
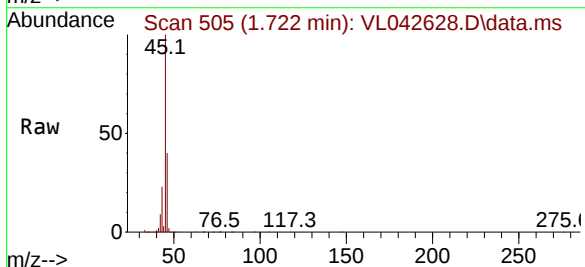
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

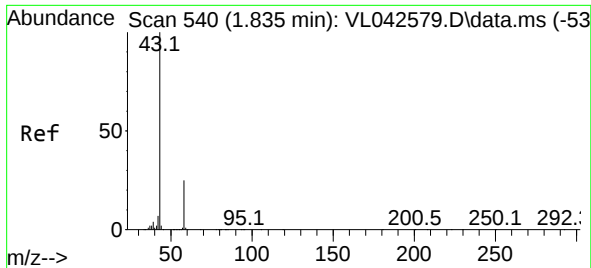
Tgt Ion:101 Resp: 98869
Ion Ratio Lower Upper
101 100
151 0.0 55.3 82.9#



#13
Ethanol
Concen: 892.541 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 45 Resp: 773828
Ion Ratio Lower Upper
45 100
46 38.8 14.5 58.1

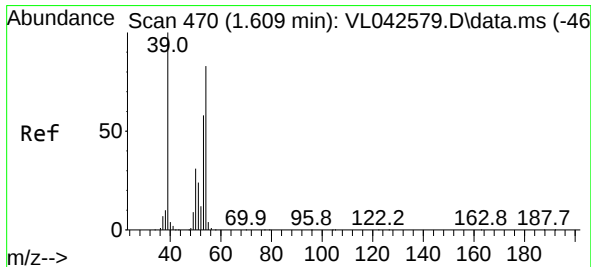
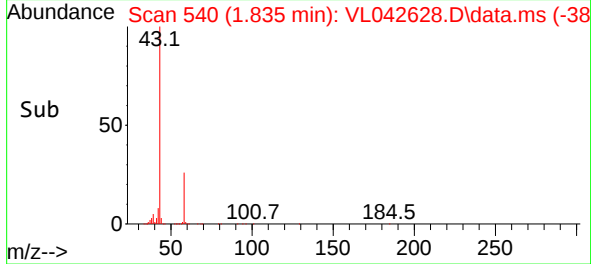
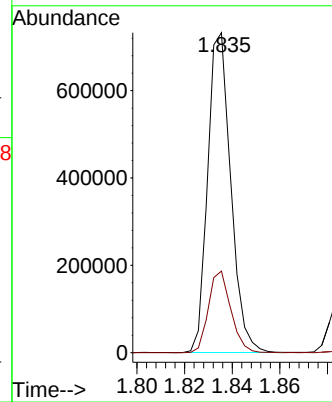
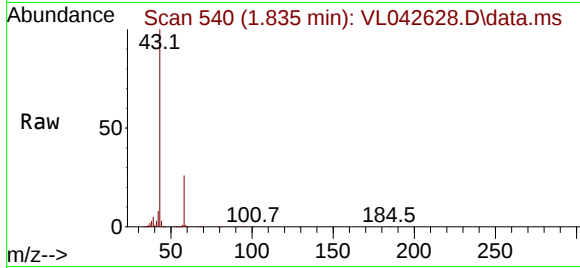




#15
Acetone
Concen: 38.336 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

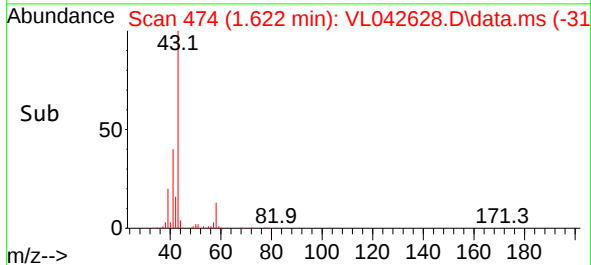
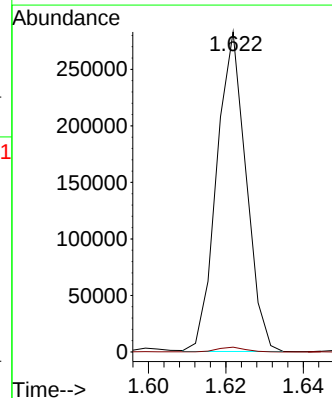
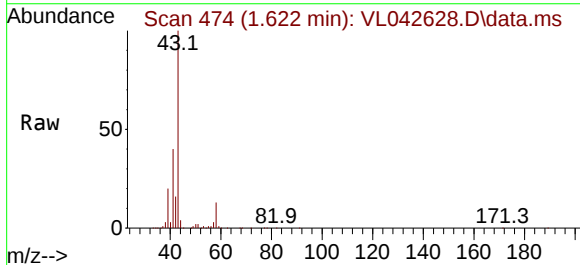
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

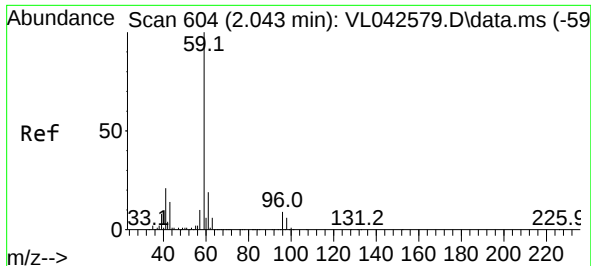
Tgt Ion: 43 Resp: 492820
Ion Ratio Lower Upper
43 100
58 24.7 21.0 31.4



#16
1,3-Butadiene
Concen: 24.547 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 39 Resp: 149481
Ion Ratio Lower Upper
39 100
54 1.6 57.9 86.9#





#17

tert-Butyl alcohol

Concen: 0.993 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.159 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

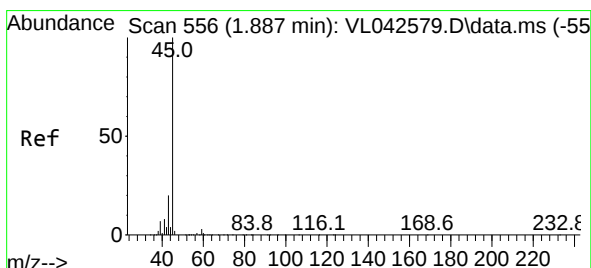
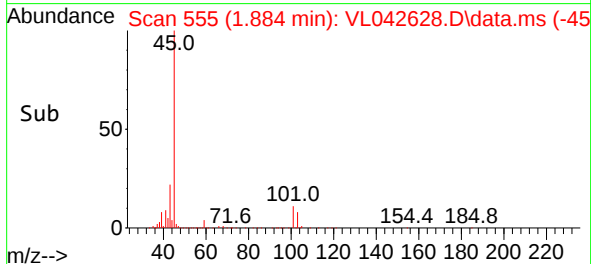
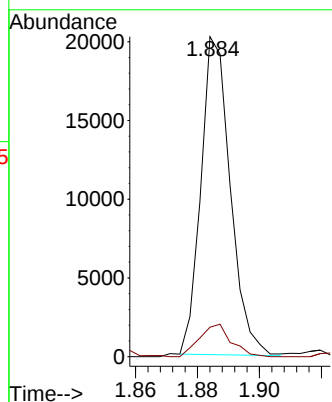
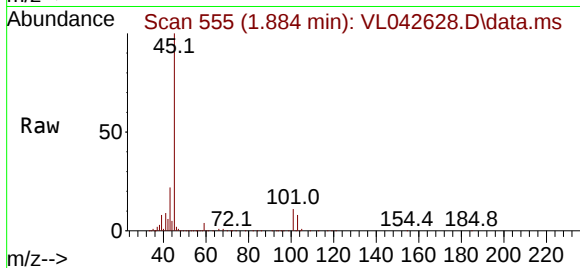
115-IA-1

Tgt Ion: 59 Resp: 13305

Ion Ratio Lower Upper

59 100

57 11.0 8.6 12.8



#19

Isopropyl Alcohol

Concen: 50.075 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.003 min

Lab File: VL042628.D

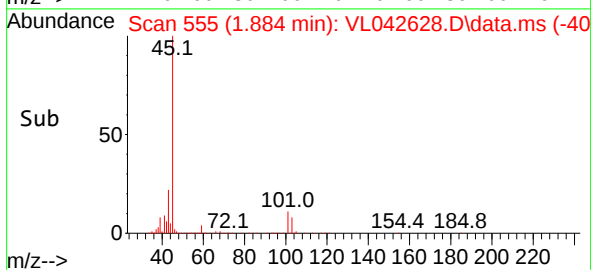
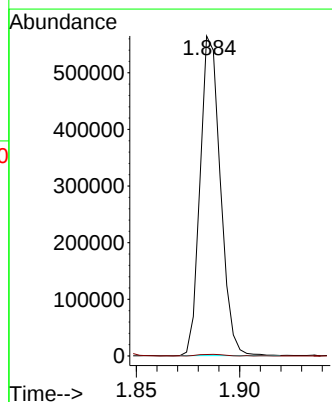
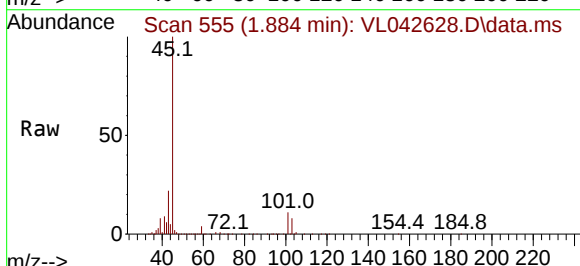
Acq: 16 Jun 2025 14:35

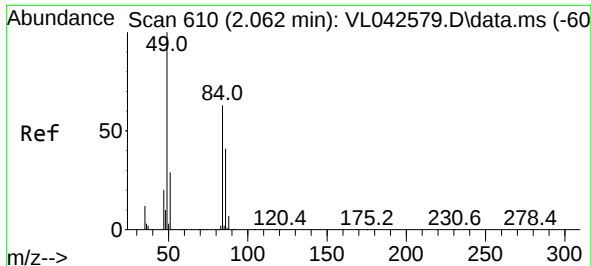
Tgt Ion: 45 Resp: 384826

Ion Ratio Lower Upper

45 100

58 31.6 29.4 44.2

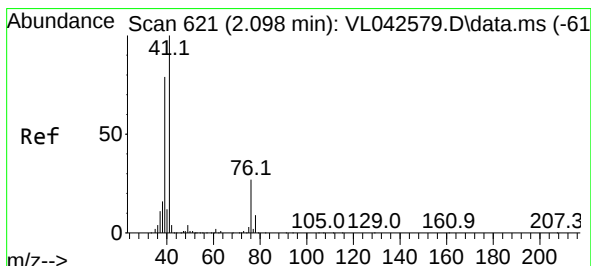
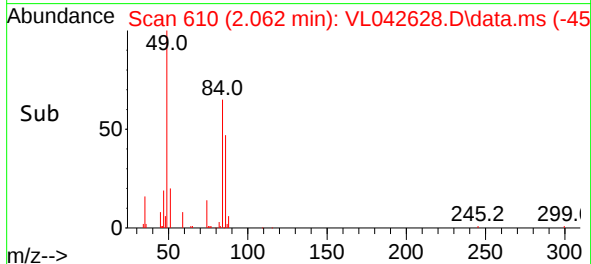
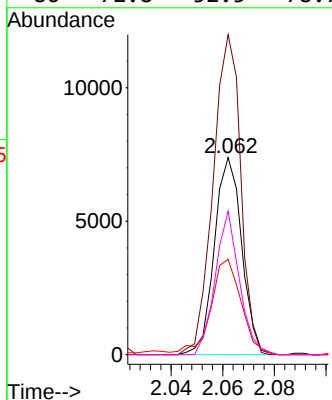
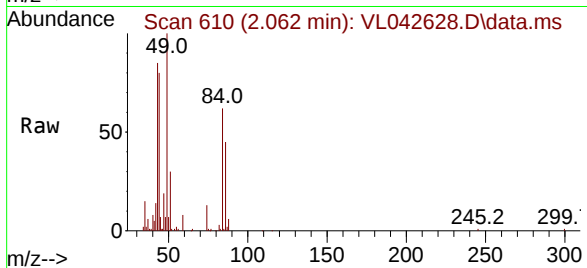




#20
Methylene Chloride
Concen: 1.281 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

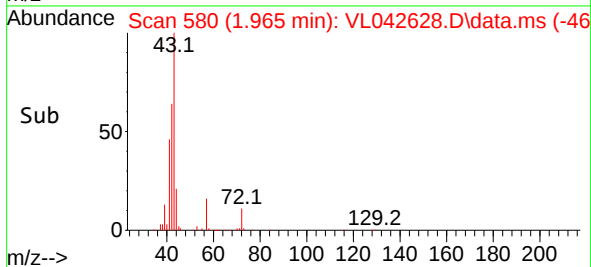
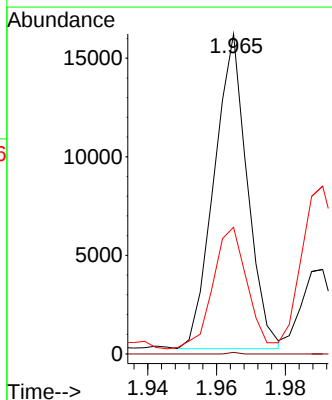
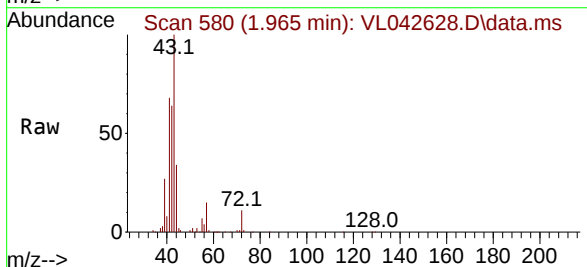
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

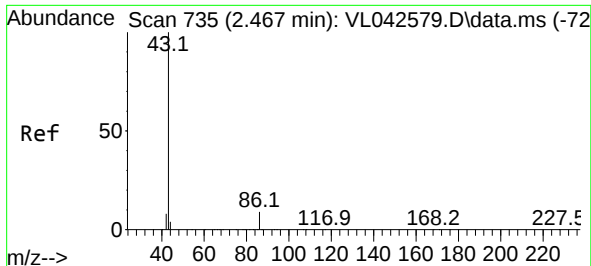
Tgt Ion:	84	Resp:	5435
Ion	Ratio	Lower	Upper
84	100		
49	162.3	128.8	193.2
51	48.3	38.6	57.8
86	72.8	52.5	78.7



#21
Allyl Chloride
Concen: 1.178 ppbv
RT: 1.965 min Scan# 580
Delta R.T. -0.133 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion:	41	Resp:	10689
Ion	Ratio	Lower	Upper
41	100		
76	0.3	21.2	31.8#
39	0.0	60.9	91.3#



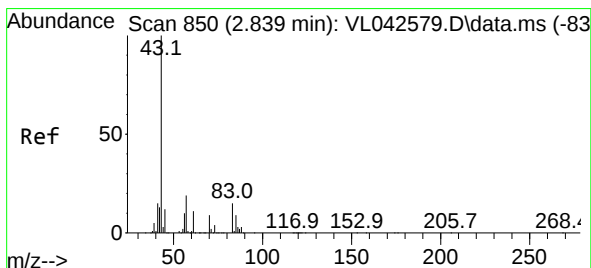
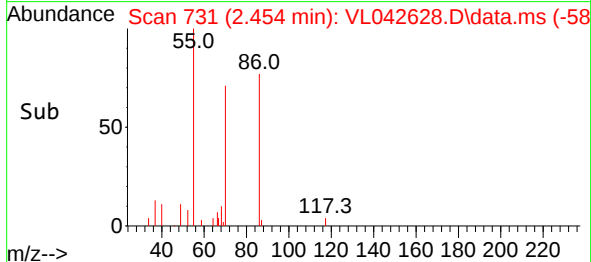
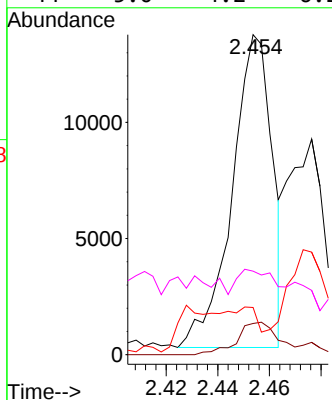
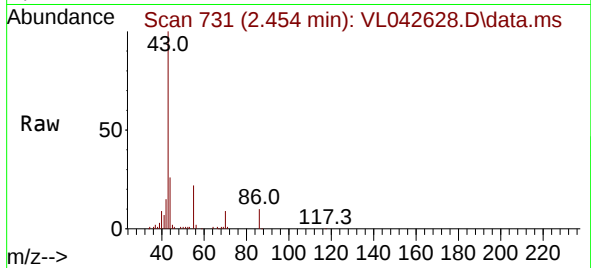


#23
 Vinyl Acetate
 Concen: 0.838 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.013 min
 Lab File: VL042628.D
 Acq: 16 Jun 2025 14:35

Instrument :
 MSVOA_L
 ClientSampleId :
 115-IA-1

Tgt Ion: 43 Resp: 14570

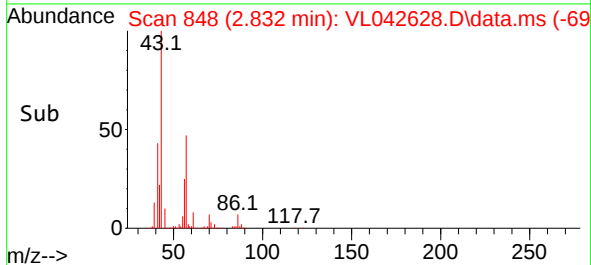
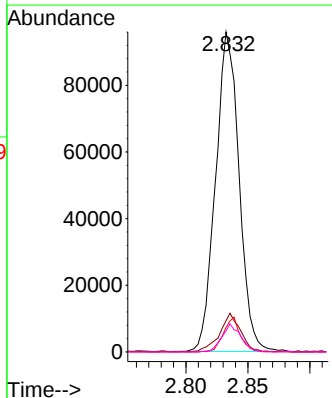
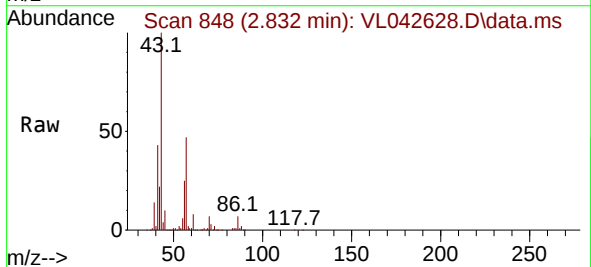
Ion	Ratio	Lower	Upper
43	100		
86	10.0	6.6	9.8#
42	5.0	7.0	10.4#
44	5.0	4.2	6.2

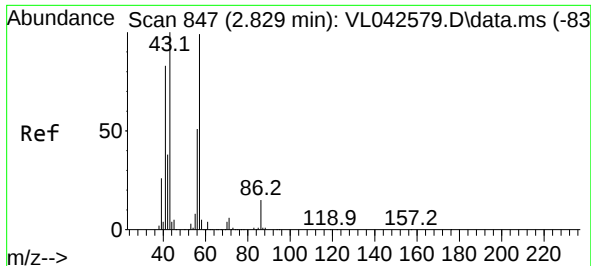


#25
 Ethyl Acetate
 Concen: 3.600 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. -0.006 min
 Lab File: VL042628.D
 Acq: 16 Jun 2025 14:35

Tgt Ion: 43 Resp: 126658

Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.2	12.2
61	8.0	7.1	10.7
70	7.0	6.4	9.6

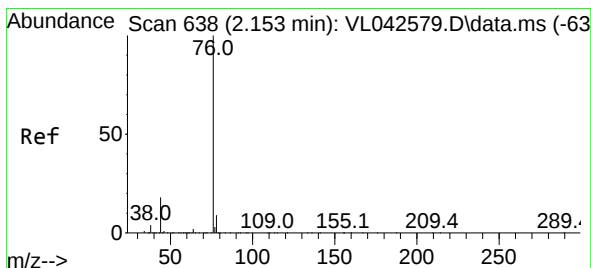
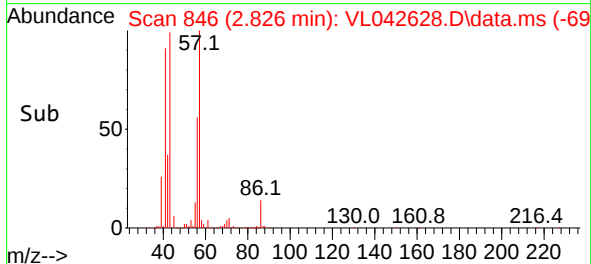
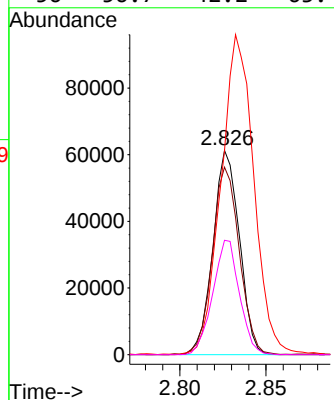
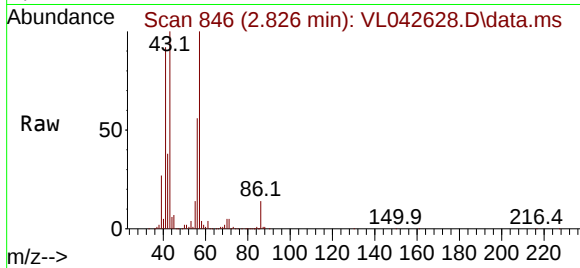




#26
Hexane
Concen: 4.081 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

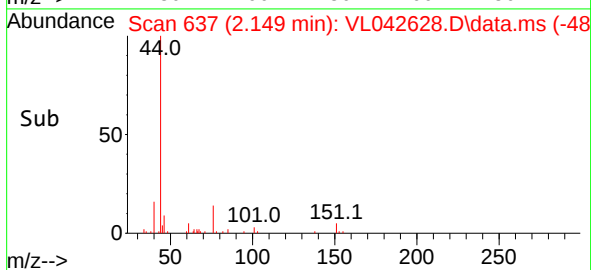
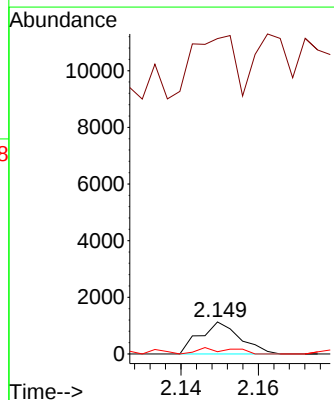
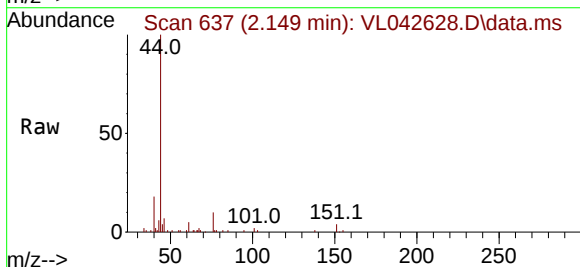
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

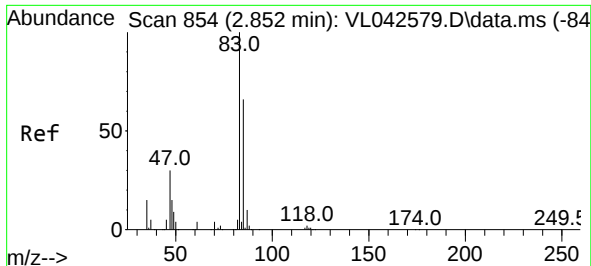
Tgt Ion: 57 Resp: 65240
Ion Ratio Lower Upper
57 100
41 94.9 70.6 106.0
43 195.4 181.1 271.7
56 56.7 42.2 63.4



#27
Carbon Disulfide
Concen: 0.066 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.003 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 76 Resp: 809
Ion Ratio Lower Upper
76 100
44 1187.5 21.3 31.9#
78 36.5 9.4 14.0#





#29

Chloroform

Concen: 0.577 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

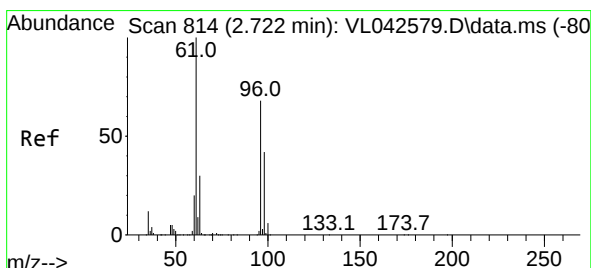
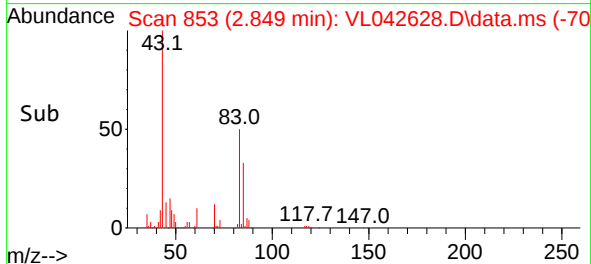
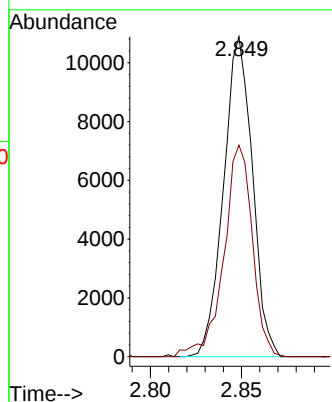
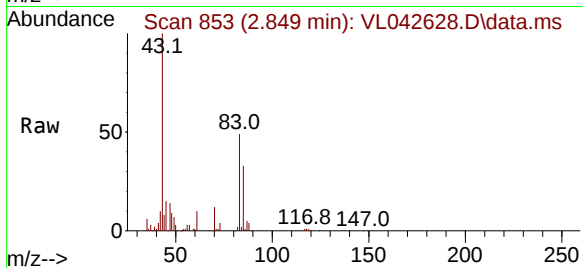
115-IA-1

Tgt Ion: 83 Resp: 11988

Ion Ratio Lower Upper

83 100

85 65.6 52.8 79.2



#31

cis-1,2-Dichloroethene

Concen: 0.683 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.117 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

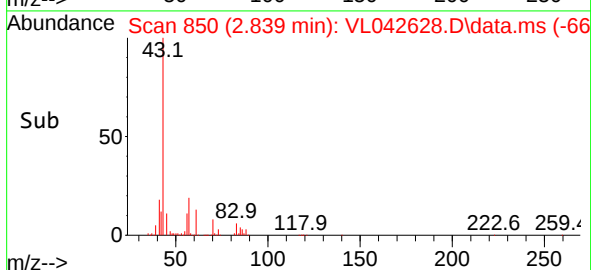
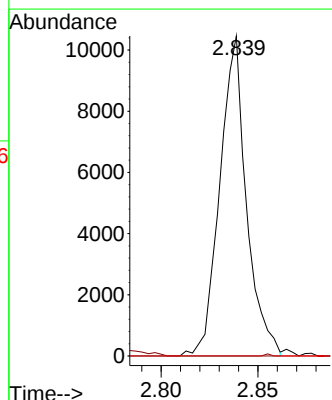
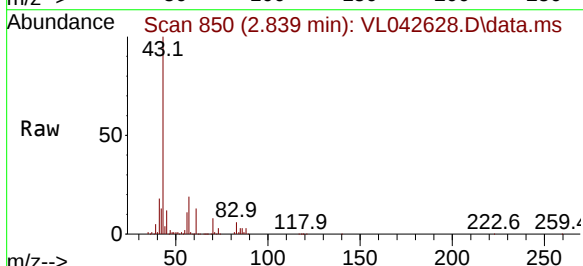
Tgt Ion: 61 Resp: 9985

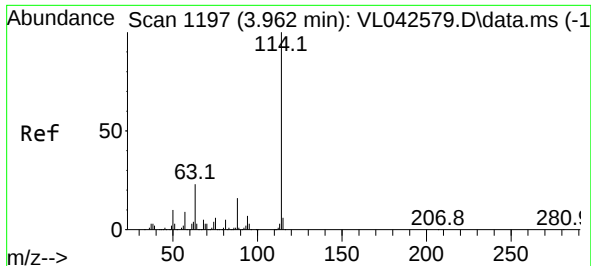
Ion Ratio Lower Upper

61 100

96 0.0 54.5 81.7#

98 0.0 33.4 50.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

115-IA-1

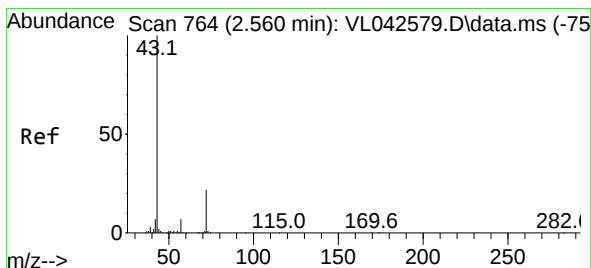
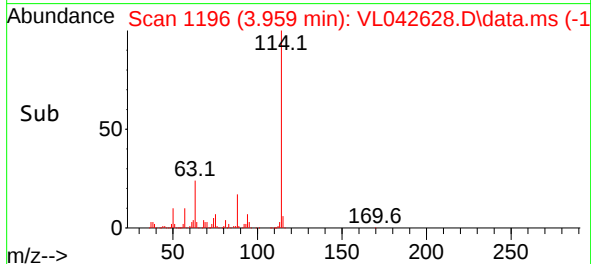
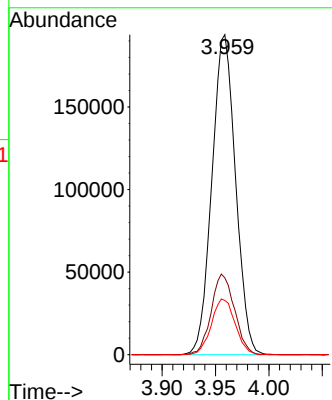
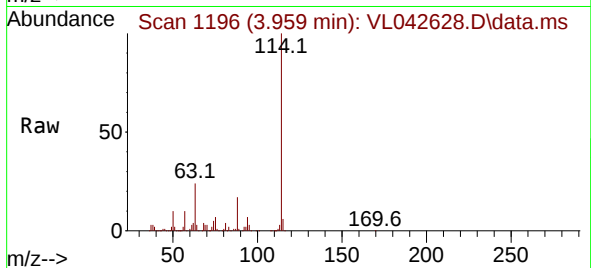
Tgt Ion:114 Resp: 298270

Ion Ratio Lower Upper

114 100

63 24.9 19.0 28.6

88 17.5 13.6 20.4



#34

2-Butanone

Concen: 2.096 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.003 min

Lab File: VL042628.D

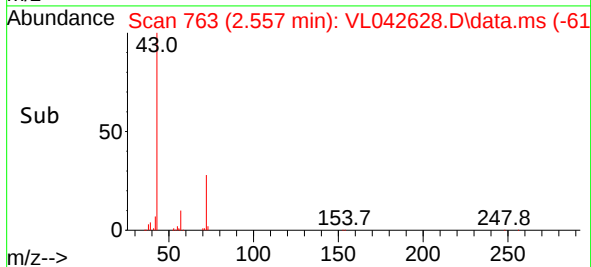
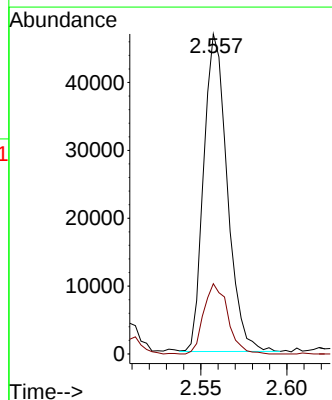
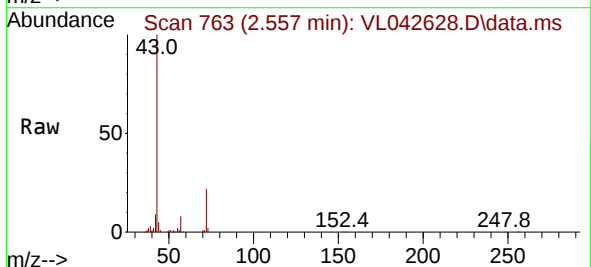
Acq: 16 Jun 2025 14:35

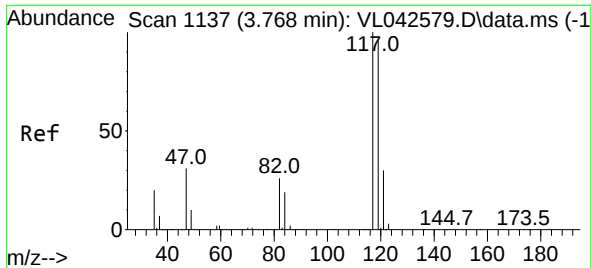
Tgt Ion: 43 Resp: 44583

Ion Ratio Lower Upper

43 100

72 22.6 17.7 26.5

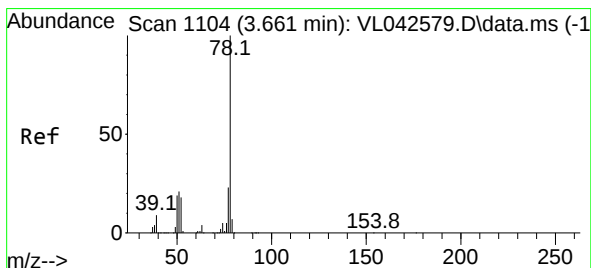
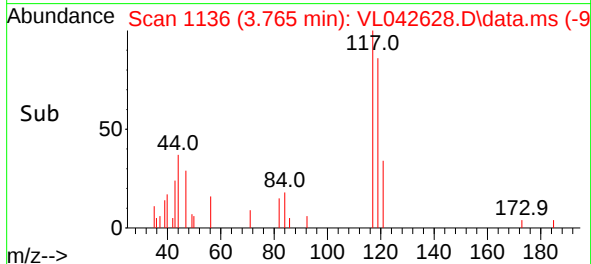
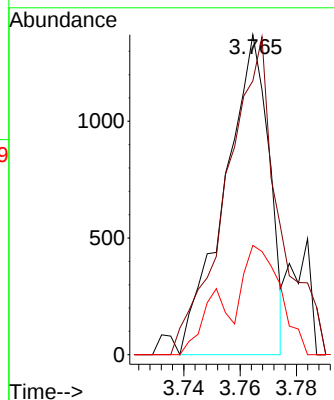
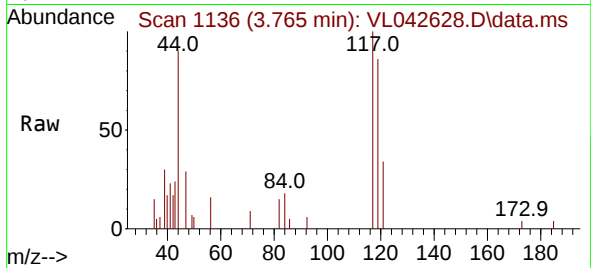




#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

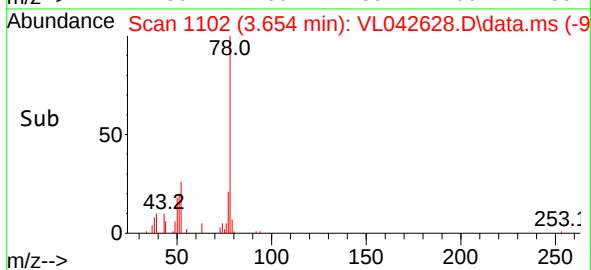
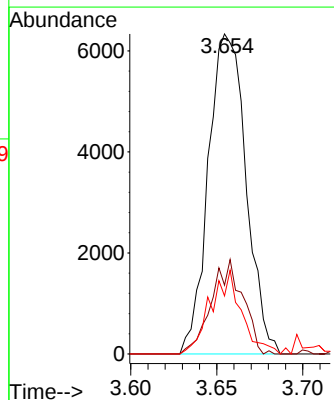
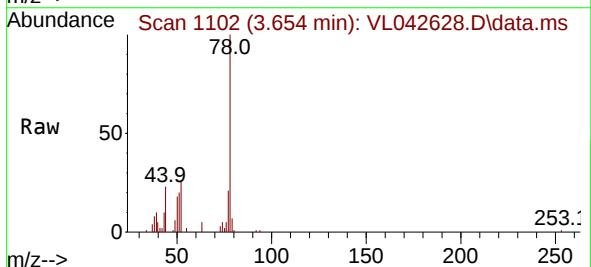
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

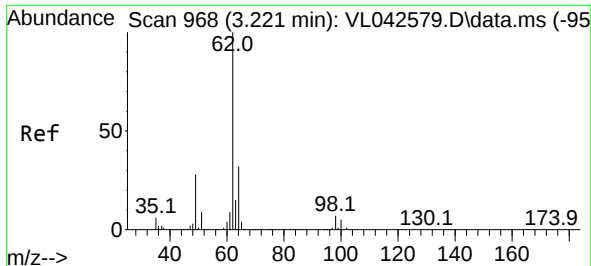
Tgt Ion:117 Resp: 1506
Ion Ratio Lower Upper
117 100
119 77.2 76.8 115.2
121 34.1 24.3 36.5



#36
Benzene
Concen: 0.329 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.006 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 78 Resp: 9676
Ion Ratio Lower Upper
78 100
77 21.5 18.2 27.2
50 18.1 15.2 22.8

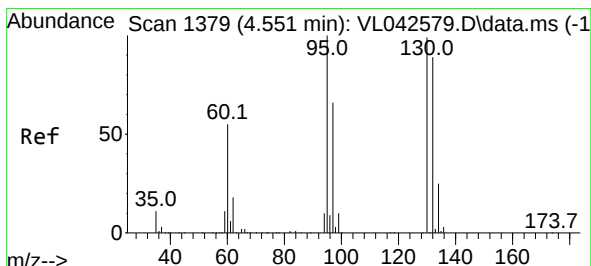
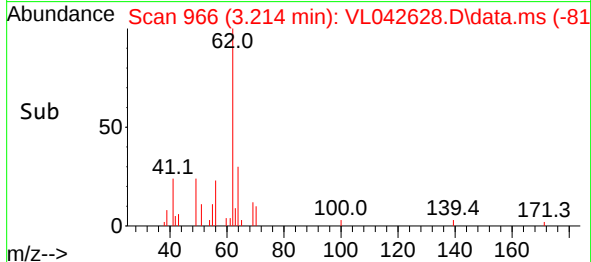
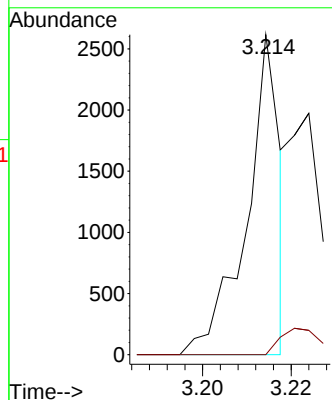
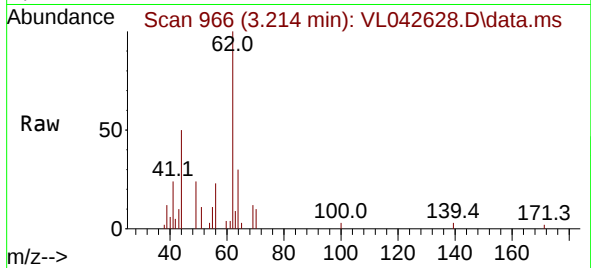




#37
1,2-Dichloroethane
Concen: 0.094 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.006 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

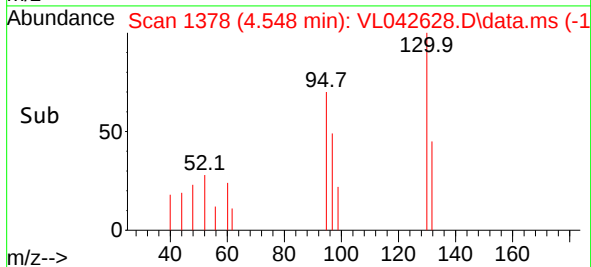
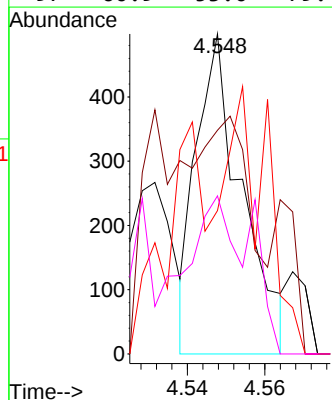
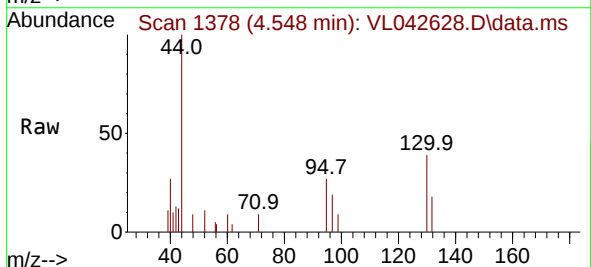
Instrument :
MSVOA_1
ClientSampleId :
115-IA-1

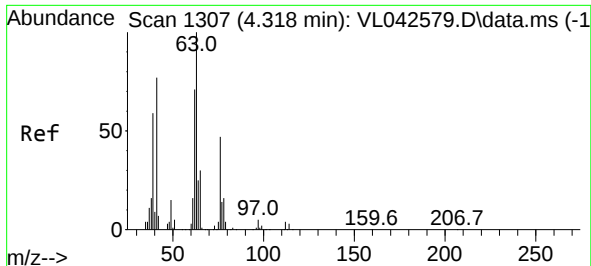
Tgt Ion: 62 Resp: 1375
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#



#38
Trichloroethene
Concen: 0.033 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. -0.003 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion:130 Resp: 407
Ion Ratio Lower Upper
130 100
95 26.7 80.6 121.0#
132 32.7 71.8 107.6#
97 60.9 53.0 79.4





#39

1,2-Dichloropropane

Concen: 6.814 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.362 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

115-IA-1

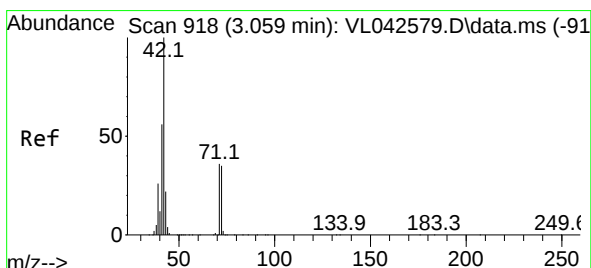
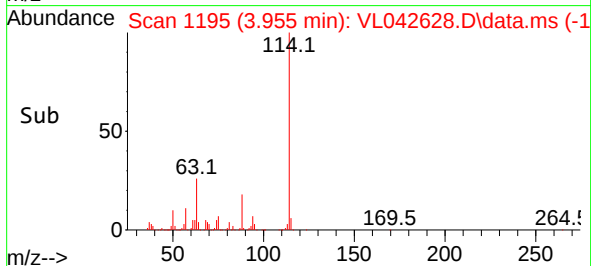
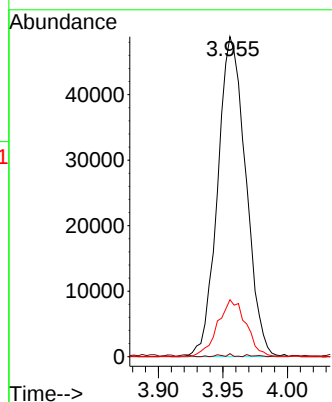
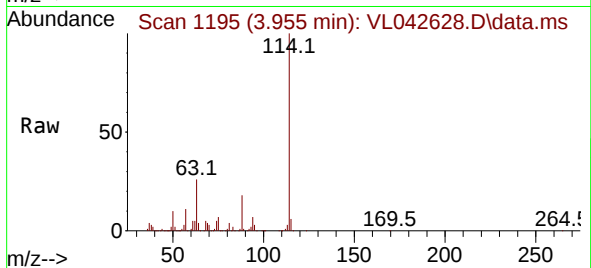
Tgt Ion: 63 Resp: 74018

Ion Ratio Lower Upper

63 100

41 0.8 61.8 92.6#

62 17.8 56.6 85.0#



#41

Tetrahydrofuran

Concen: 1.385 ppbv

RT: 3.059 min Scan# 918

Delta R.T. 0.000 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

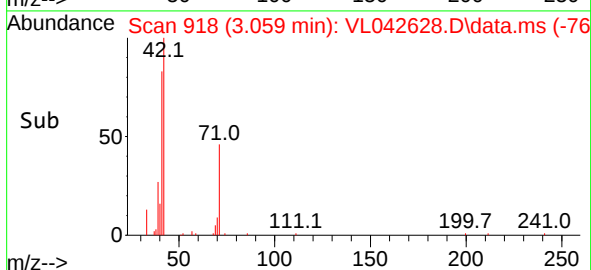
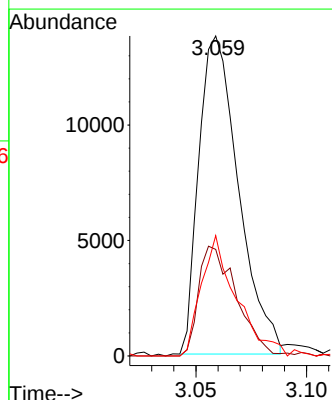
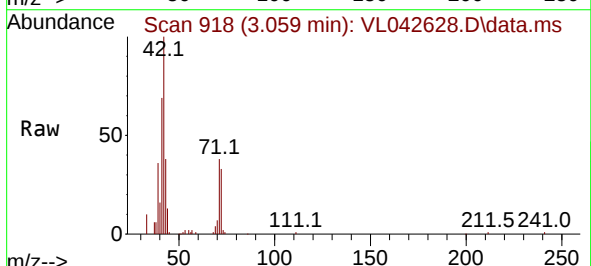
Tgt Ion: 42 Resp: 17246

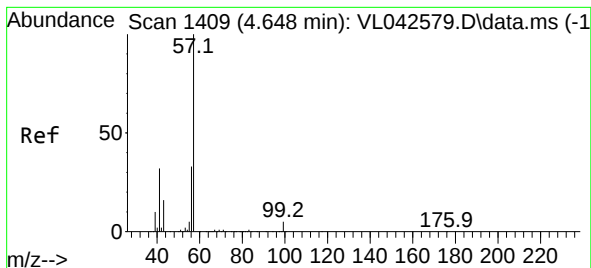
Ion Ratio Lower Upper

42 100

72 33.5 28.9 43.3

71 34.0 28.5 42.7





#44

2,2,4-Trimethylpentane

Concen: 0.158 ppbv

RT: 4.642 min Scan# 1409

Delta R.T. -0.006 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_1

ClientSampleId :

115-IA-1

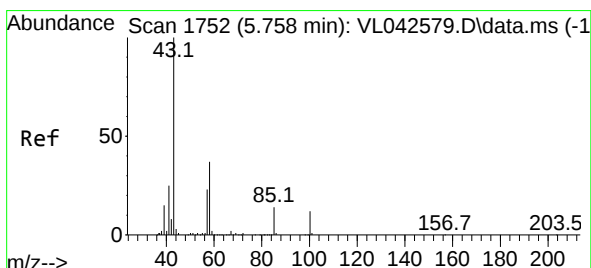
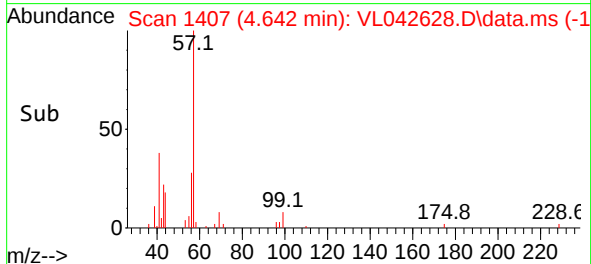
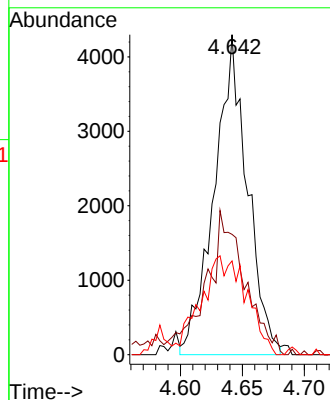
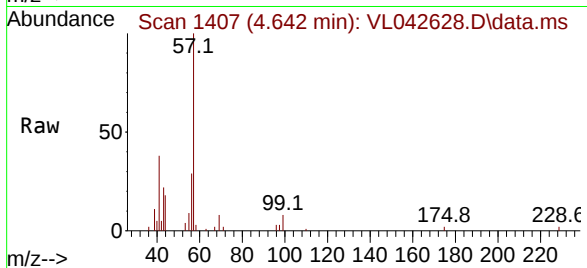
Tgt Ion: 57 Resp: 7963

Ion Ratio Lower Upper

57 100

41 57.2 26.1 39.1#

56 48.1 25.9 38.9#



#50

4-Methyl-2-Pentanone

Concen: 0.106 ppbv

RT: 5.762 min Scan# 1753

Delta R.T. 0.003 min

Lab File: VL042628.D

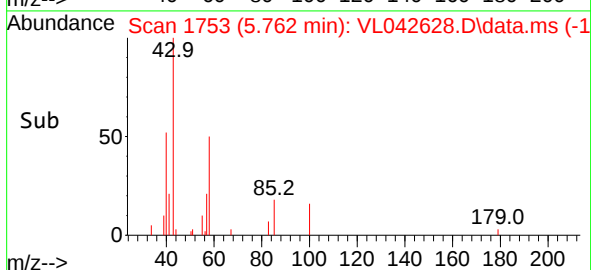
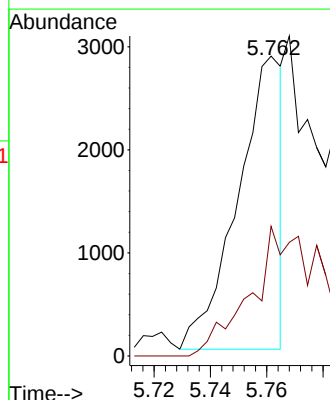
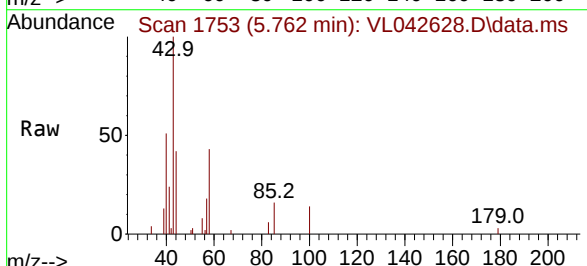
Acq: 16 Jun 2025 14:35

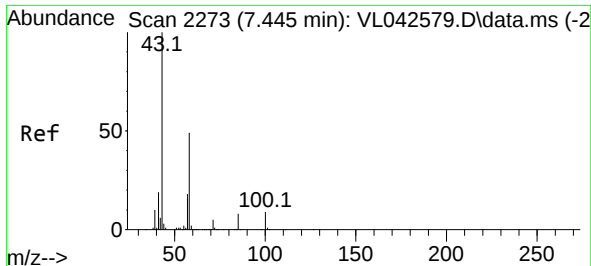
Tgt Ion: 43 Resp: 3117

Ion Ratio Lower Upper

43 100

58 86.0 28.3 42.5#

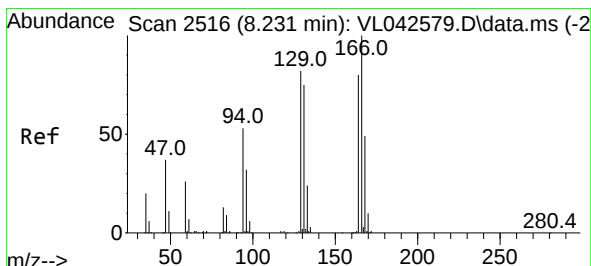
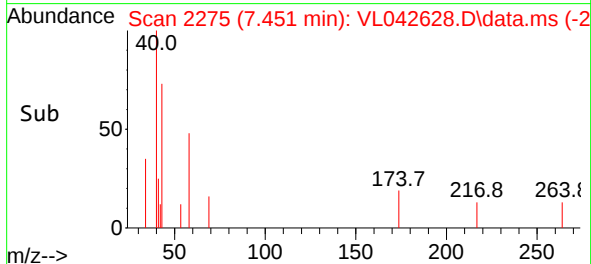
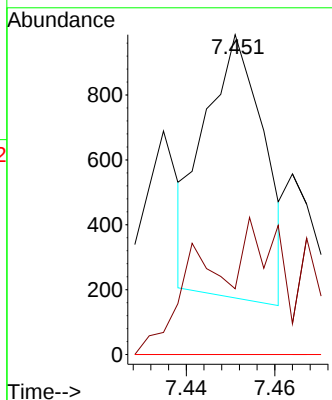
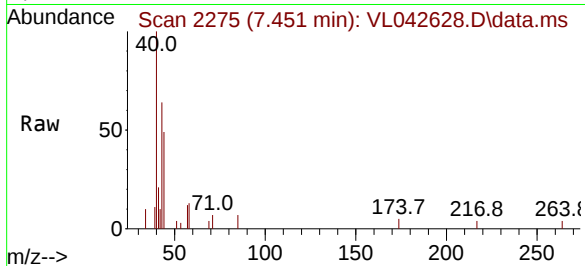




#51
2-Hexanone
Concen: 0.032 ppbv
RT: 7.451 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

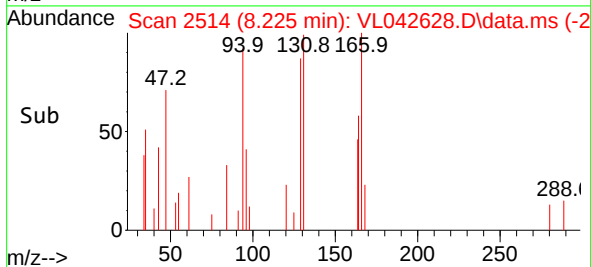
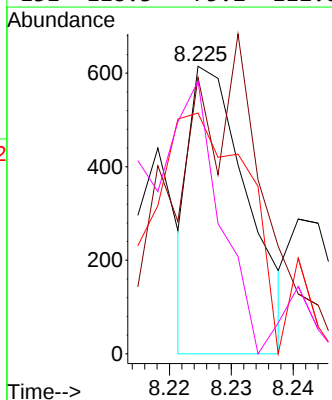
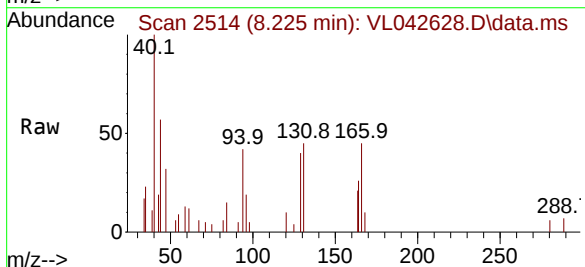
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

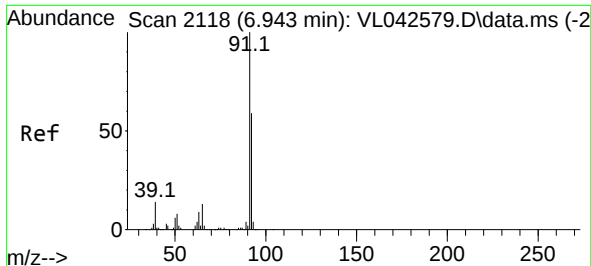
Tgt Ion: 43 Resp: 749
Ion Ratio Lower Upper
43 100
58 89.1 39.9 59.9#
98 6.4 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.036 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. -0.006 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 164 Resp: 397
Ion Ratio Lower Upper
164 100
166 82.6 100.0 150.0#
129 117.8 82.2 123.4
131 118.3 75.2 112.8#

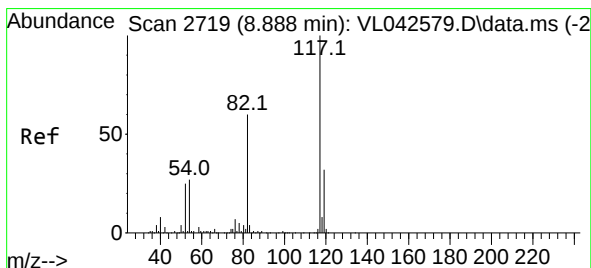
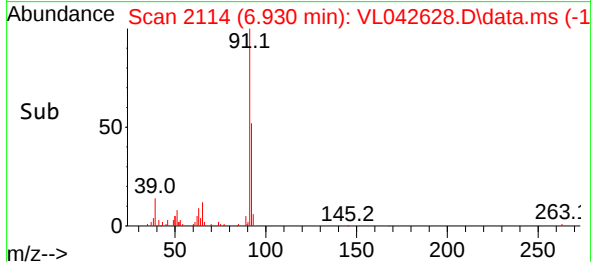
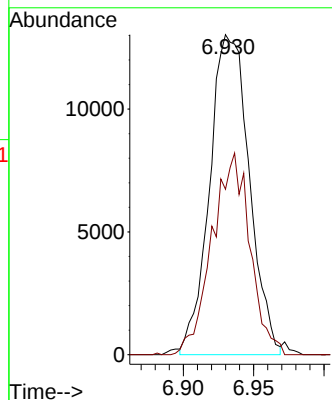
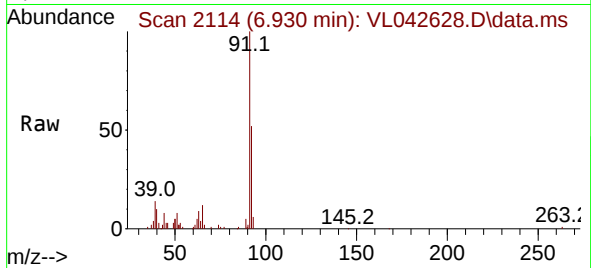




#53
Toluene
Concen: 0.753 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.013 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

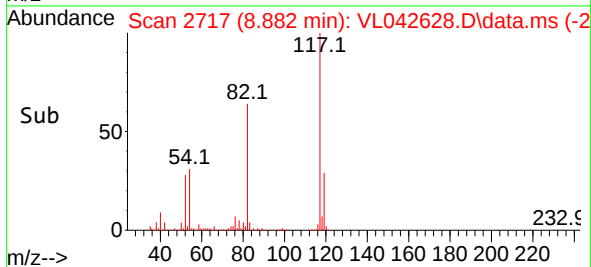
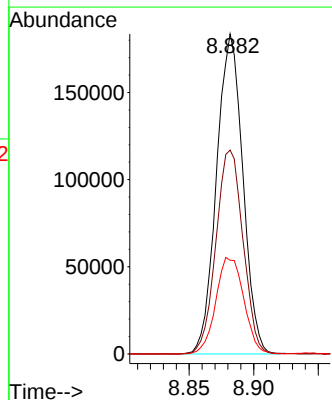
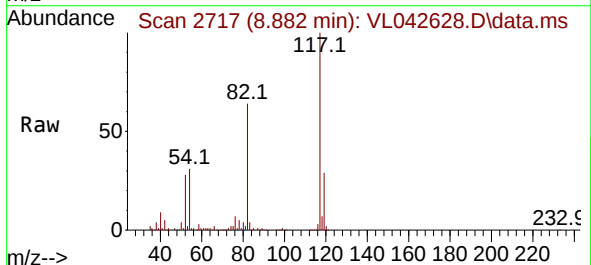
Instrument :
MSVOA_1
ClientSampleId :
115-IA-1

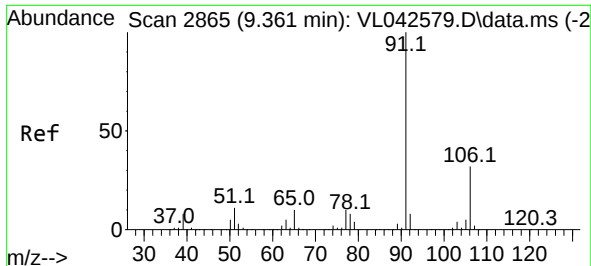
Tgt Ion: 91 Resp: 25563
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.006 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 117 Resp: 259856
Ion Ratio Lower Upper
117 100
82 65.6 51.2 76.8
119 32.0 26.3 39.5





#58

Ethyl Benzene

Concen: 0.306 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. 0.172 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

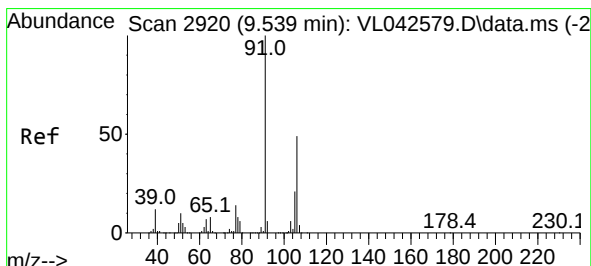
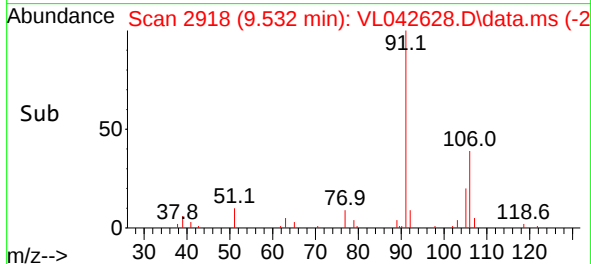
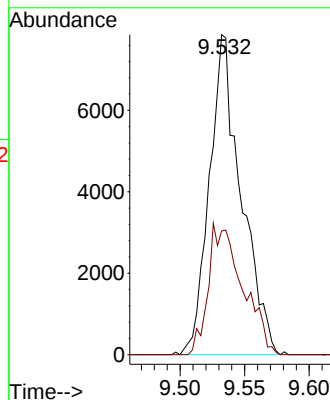
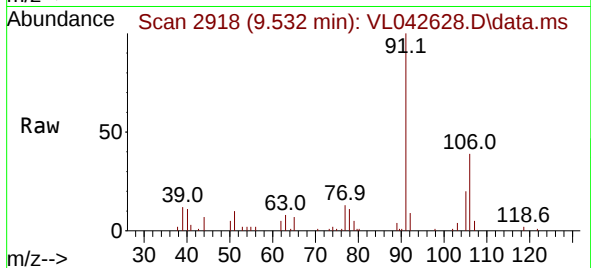
115-IA-1

Tgt Ion: 91 Resp: 13470

Ion Ratio Lower Upper

91 100

106 38.7 25.9 38.9



#59

m/p-Xylene

Concen: 0.388 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.006 min

Lab File: VL042628.D

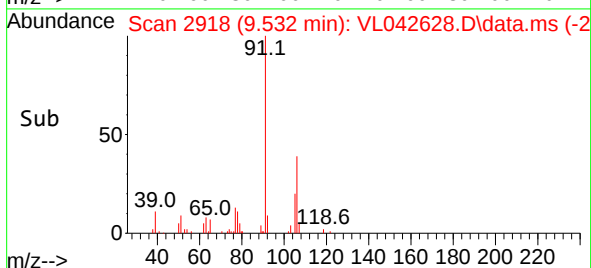
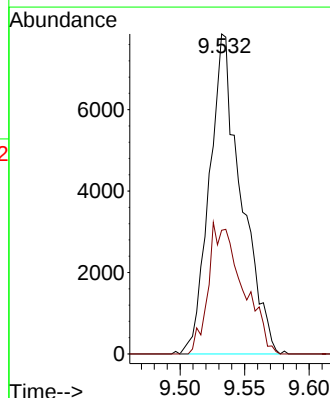
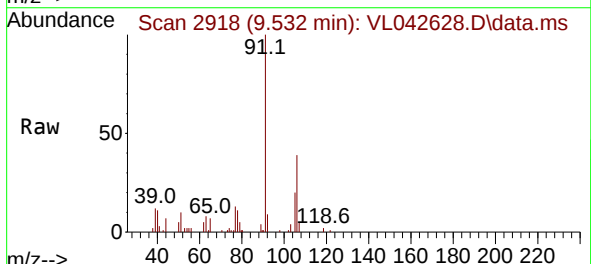
Acq: 16 Jun 2025 14:35

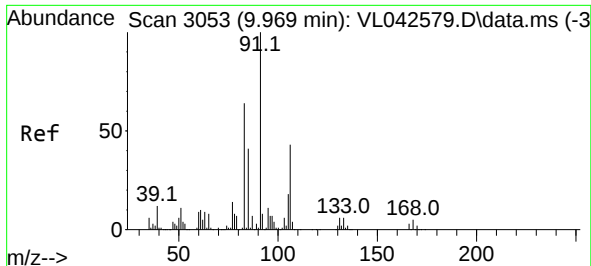
Tgt Ion: 91 Resp: 13470

Ion Ratio Lower Upper

91 100

106 44.2 38.8 58.2

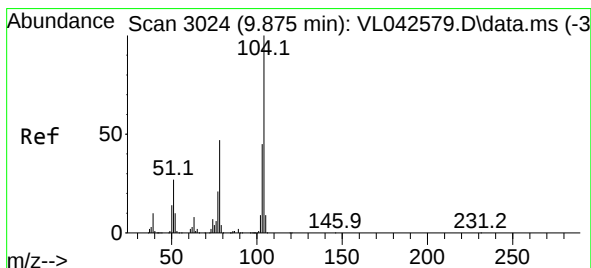
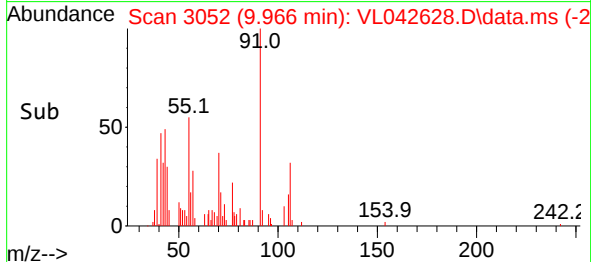
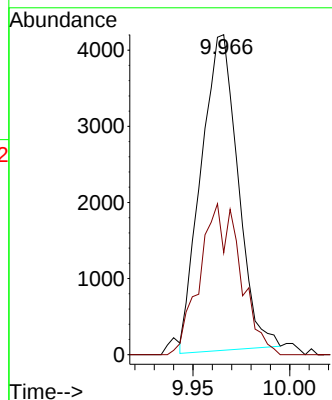
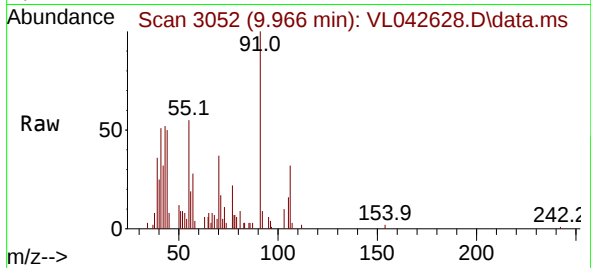




#60
o-Xylene
Concen: 0.159 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.003 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

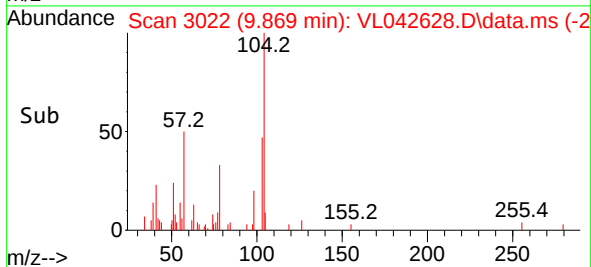
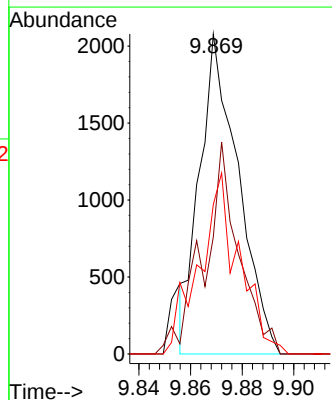
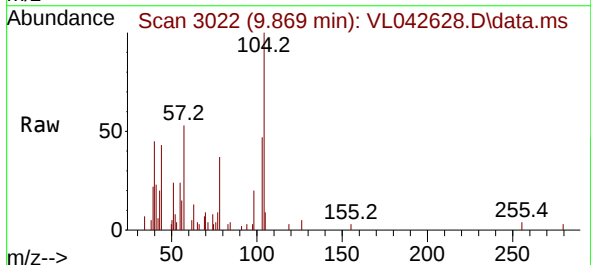
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

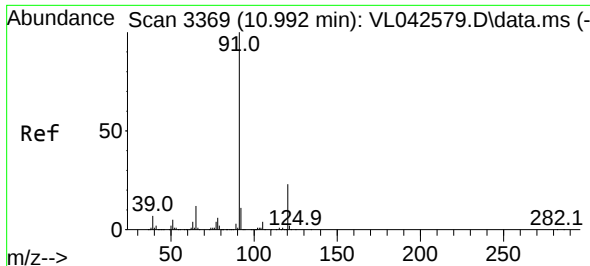
Tgt Ion: 91 Resp: 5491
Ion Ratio Lower Upper
91 100
106 52.5 22.9 68.5



#61
Styrene
Concen: 0.132 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.006 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 104 Resp: 2154
Ion Ratio Lower Upper
104 100
78 60.3 38.2 57.4#
103 58.4 36.7 55.1#

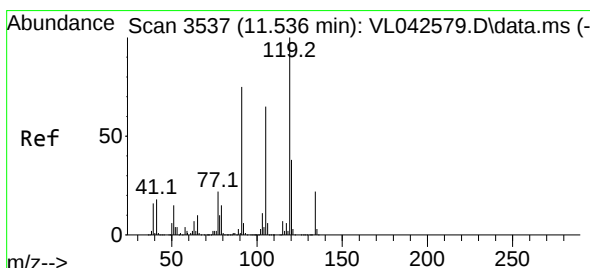
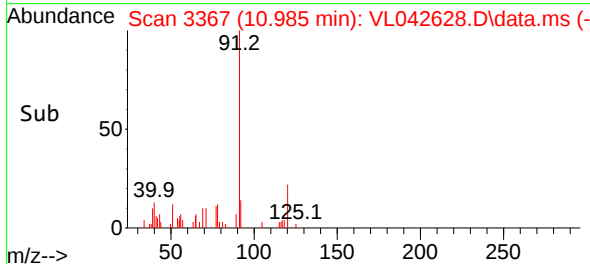
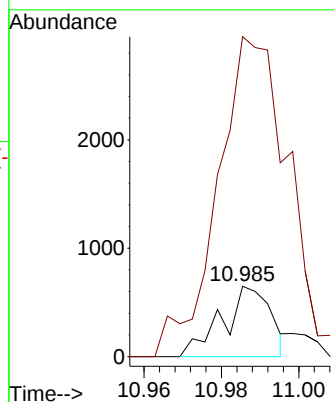
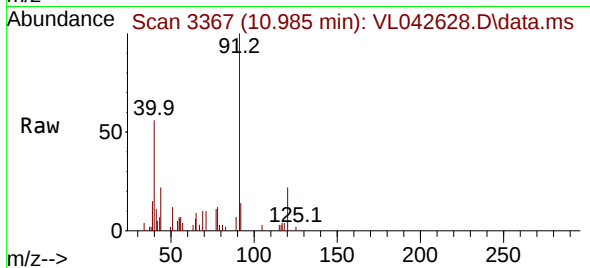




#64
n-propylbenzene
Concen: 0.041 ppbv
RT: 10.985 min Scan# 311
Delta R.T. -0.006 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

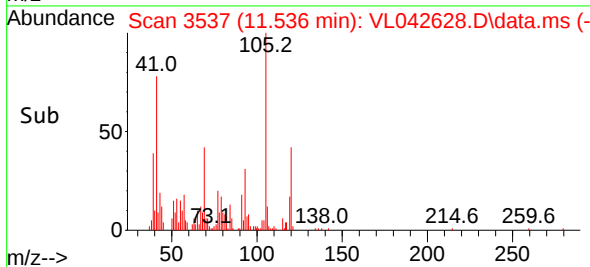
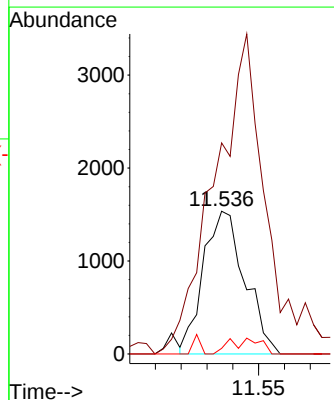
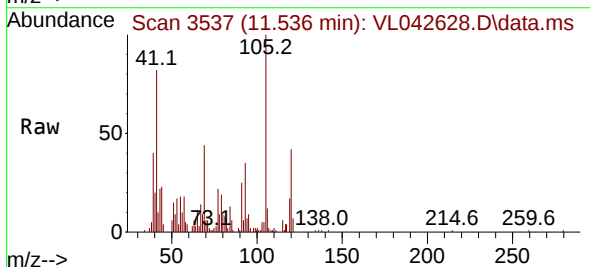
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

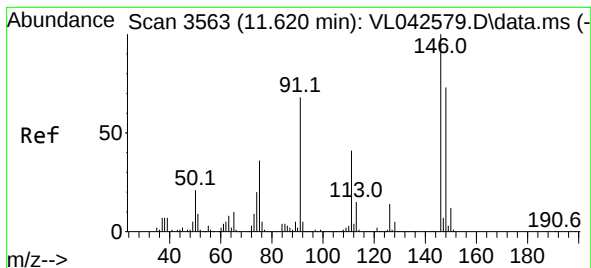
Tgt Ion:120 Resp: 561
Ion Ratio Lower Upper
120 100
91 698.4 363.0 544.6#



#65
tert-Butylbenzene
Concen: 0.037 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion:119 Resp: 1719
Ion Ratio Lower Upper
119 100
91 263.0 61.1 91.7#
134 0.0 17.4 26.2#





#66

Benzyl Chloride

Concen: 0.759 ppbv

RT: 11.545 min Scan# 31

Delta R.T. -0.074 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

115-IA-1

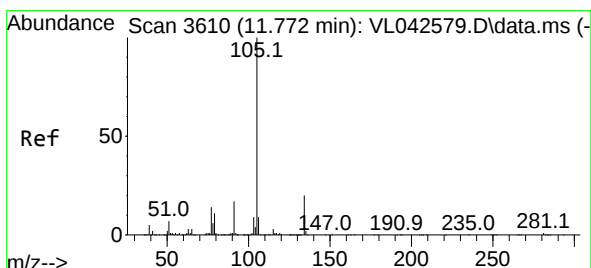
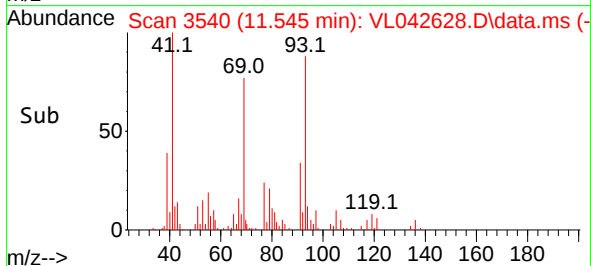
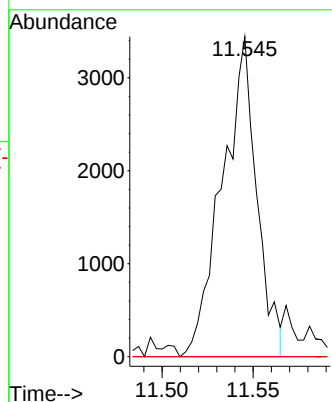
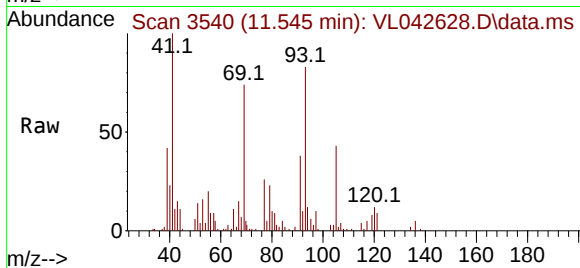
Tgt Ion: 91 Resp: 4533

Ion Ratio Lower Upper

91 100

126 3.5 15.1 22.7#

128 0.0 5.0 7.6#



#67

sec-Butylbenzene

Concen: 0.410 ppbv

RT: 12.044 min Scan# 3694

Delta R.T. 0.272 min

Lab File: VL042628.D

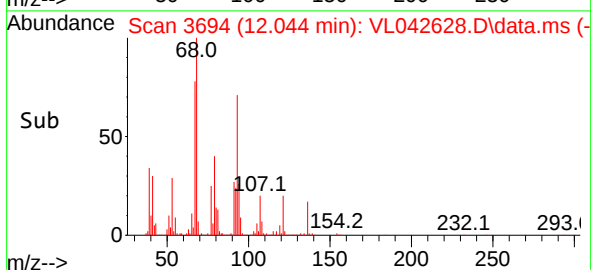
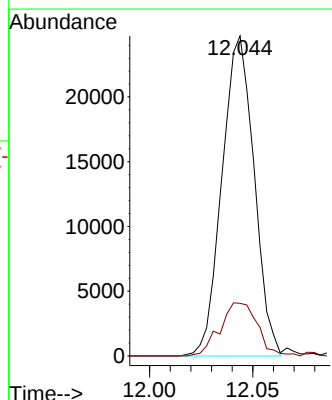
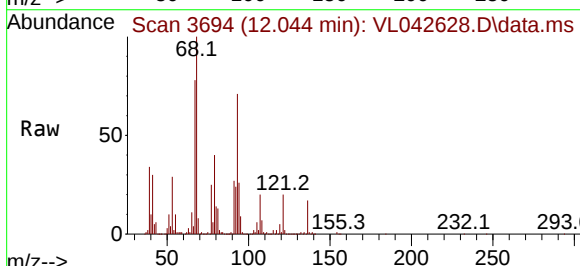
Acq: 16 Jun 2025 14:35

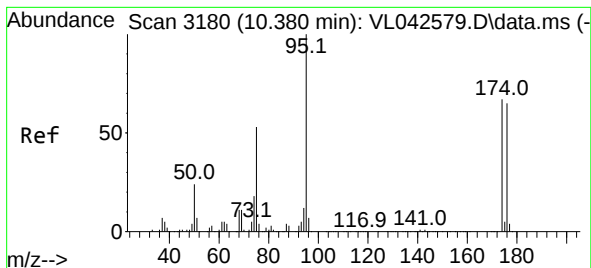
Tgt Ion: 105 Resp: 26735

Ion Ratio Lower Upper

105 100

134 20.1 15.8 23.6

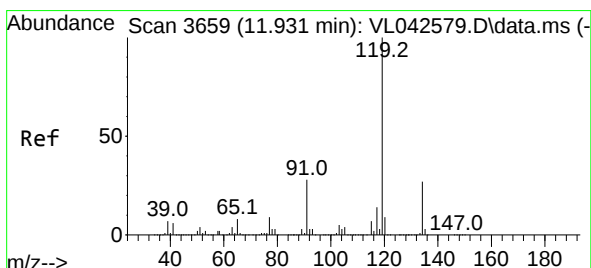
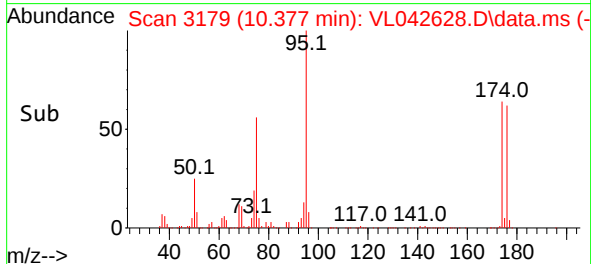
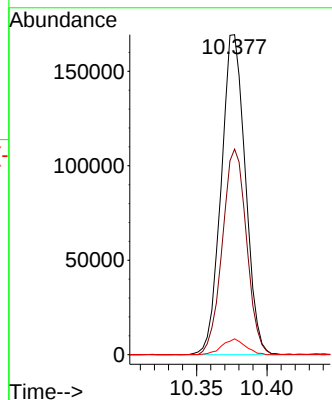
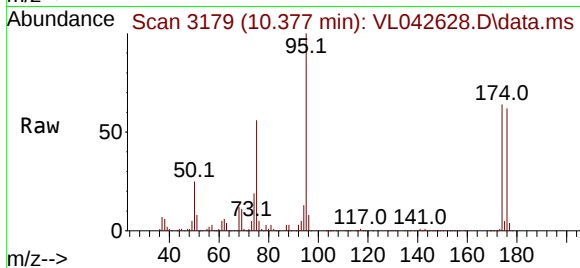




#68
1-Bromo-4-Fluorobenzene
Concen: 10.376 ppbv
RT: 10.377 min Scan# 3180
Delta R.T. -0.003 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

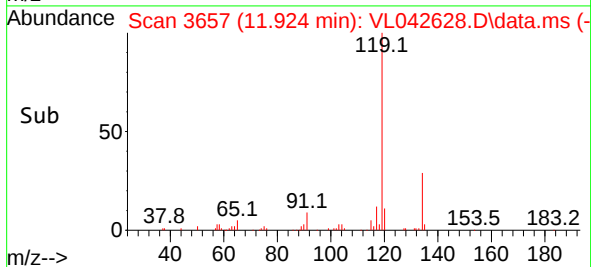
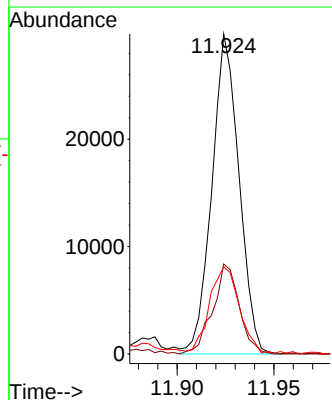
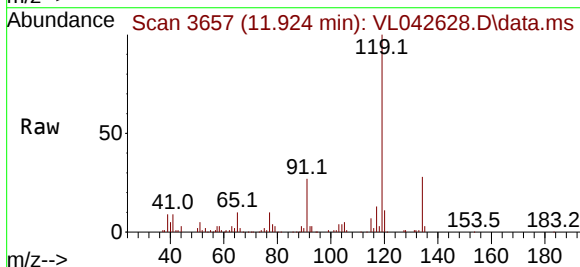
Instrument :
MSVOA_L
ClientSampleId :
115-IA-1

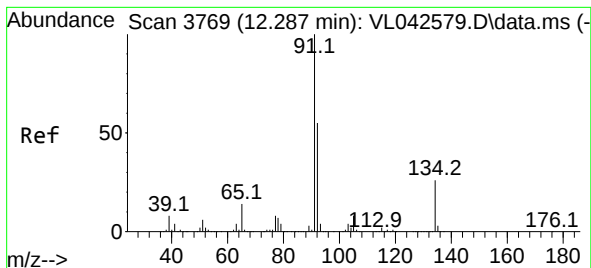
Tgt Ion: 95 Resp: 202110
Ion Ratio Lower Upper
95 100
174 64.4 53.1 79.7
175 4.8 4.2 6.2



#69
p-Isopropyltoluene
Concen: 0.531 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.006 min
Lab File: VL042628.D
Acq: 16 Jun 2025 14:35

Tgt Ion: 119 Resp: 29010
Ion Ratio Lower Upper
119 100
134 27.7 21.1 31.7
91 31.1 21.9 32.9





#70

n-Butylbenzene

Concen: 0.165 ppbv

RT: 12.348 min Scan# 31

Delta R.T. 0.062 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_1

ClientSampleId :

115-IA-1

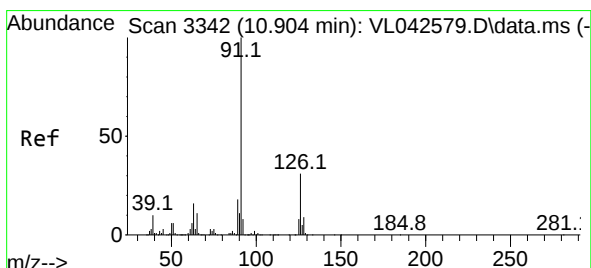
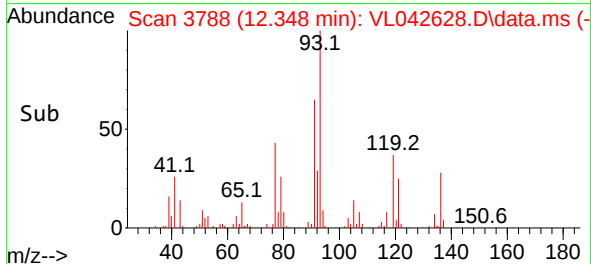
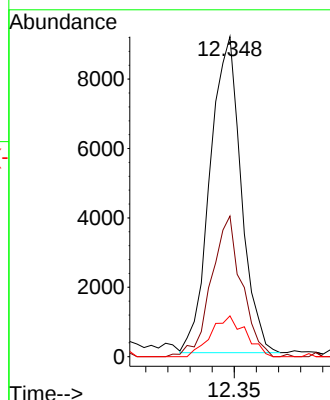
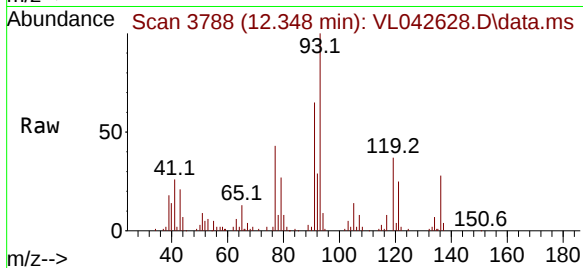
Tgt Ion: 91 Resp: 8911

Ion Ratio Lower Upper

91 100

92 43.4 44.4 66.6#

134 14.4 20.1 30.1#



#71

2-Chlorotoluene

Concen: 0.037 ppbv

RT: 11.358 min Scan# 3482

Delta R.T. 0.453 min

Lab File: VL042628.D

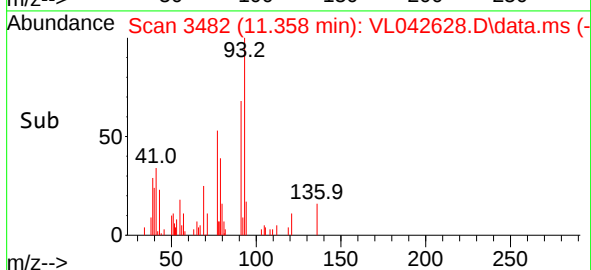
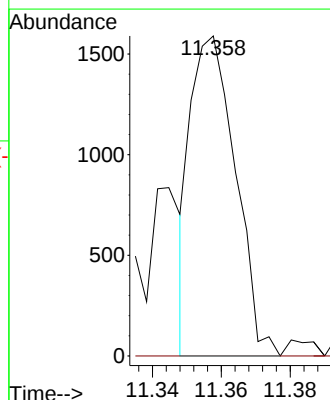
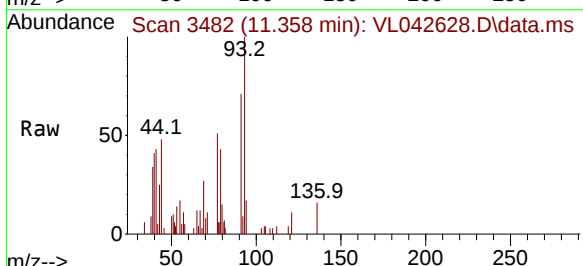
Acq: 16 Jun 2025 14:35

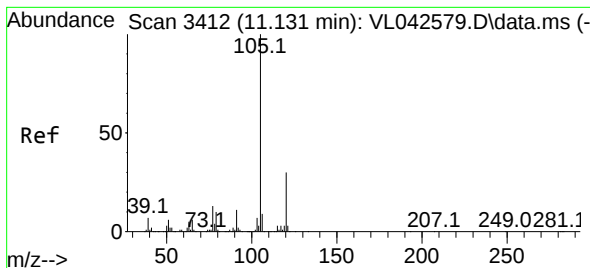
Tgt Ion: 91 Resp: 1437

Ion Ratio Lower Upper

91 100

126 13.7 12.6 50.4





#72

4-Ethyltoluene

Concen: 0.081 ppbv

RT: 11.128 min Scan# 3412

Delta R.T. -0.003 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

115-IA-1

Tgt Ion:105 Resp: 3475

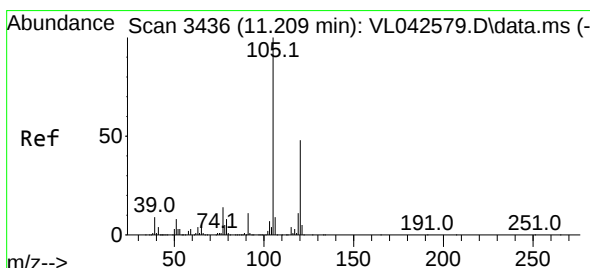
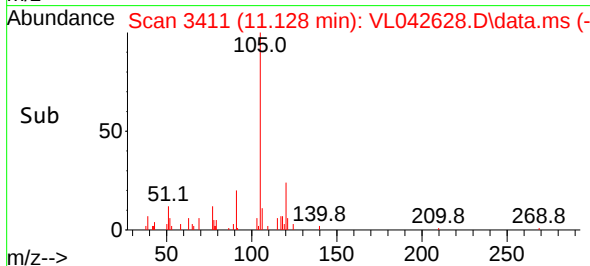
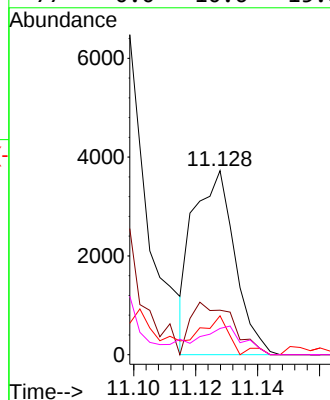
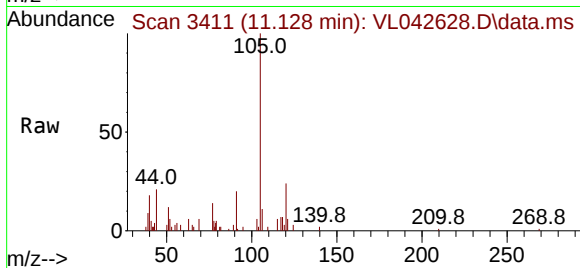
Ion Ratio Lower Upper

105 100

120 0.0 24.6 36.8#

91 0.0 9.6 14.4#

77 0.0 10.6 15.8#



#73

1,3,5-Trimethylbenzene

Concen: 0.078 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL042628.D

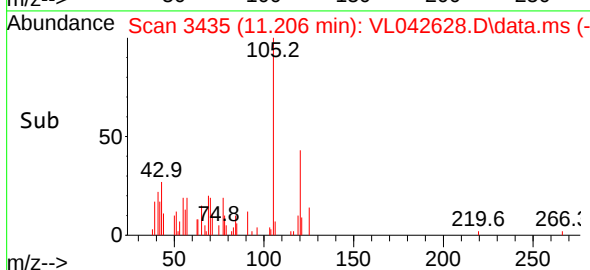
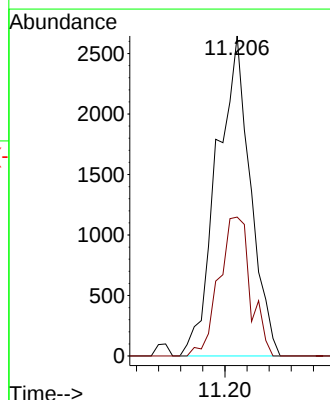
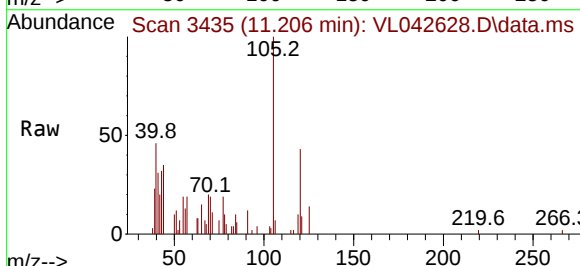
Acq: 16 Jun 2025 14:35

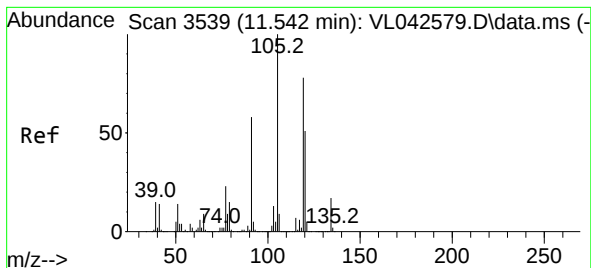
Tgt Ion:105 Resp: 2791

Ion Ratio Lower Upper

105 100

120 43.4 38.8 58.2





#74

1,2,4-Trimethylbenzene

Concen: 0.279 ppbv

RT: 11.532 min Scan# 3539

Delta R.T. -0.010 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

115-IA-1

Tgt Ion:105 Resp: 11072

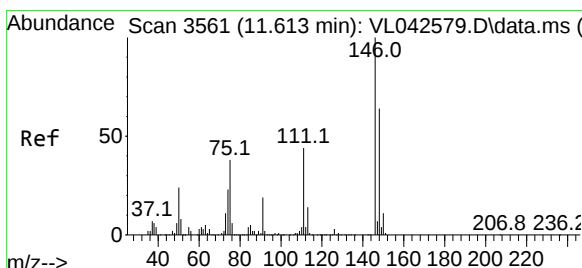
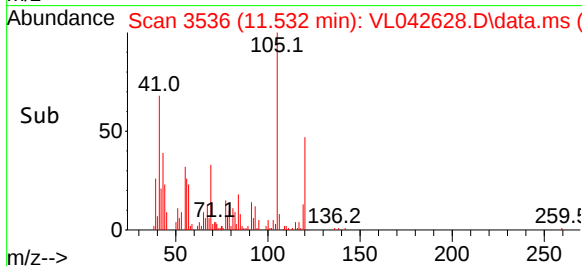
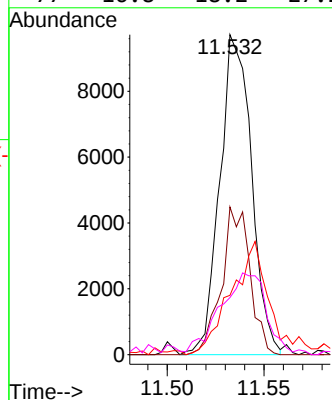
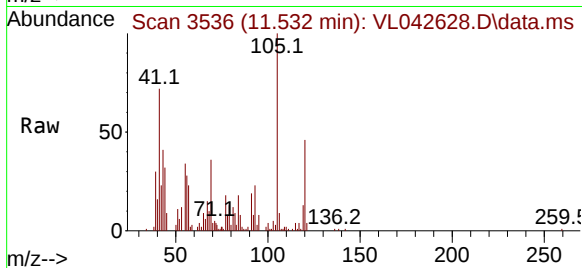
Ion Ratio Lower Upper

105 100

120 46.1 40.8 61.2

91 17.4 46.8 70.2#

77 16.8 18.2 27.2#



#75

1,3-Dichlorobenzene

Concen: 17.325 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.058 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

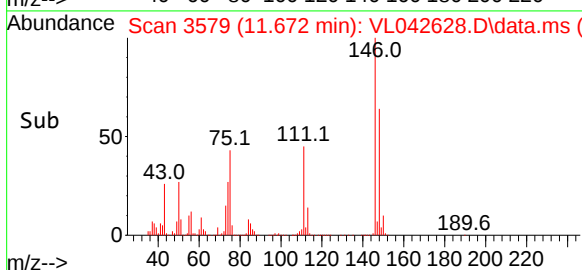
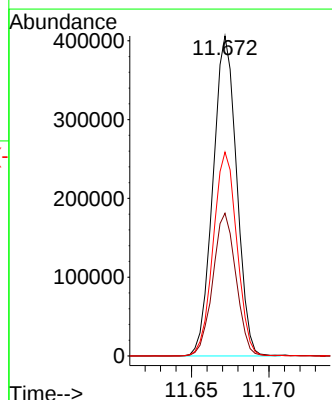
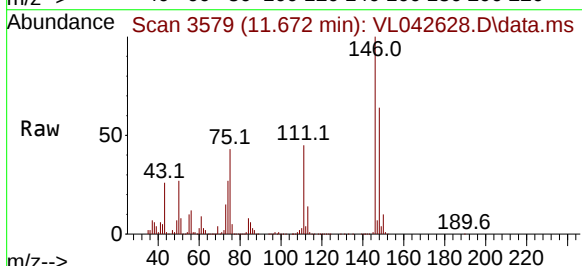
Tgt Ion:146 Resp: 430999

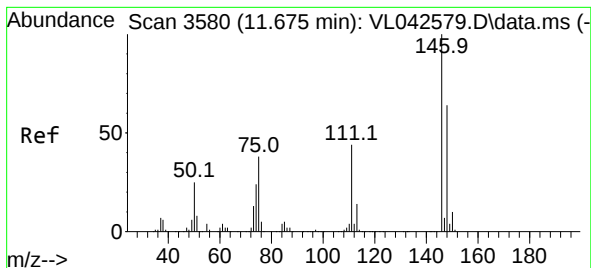
Ion Ratio Lower Upper

146 100

111 43.9 22.4 67.3

148 63.9 32.0 96.2





#76

1,4-Dichlorobenzene

Concen: 17.371 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.003 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

115-IA-1

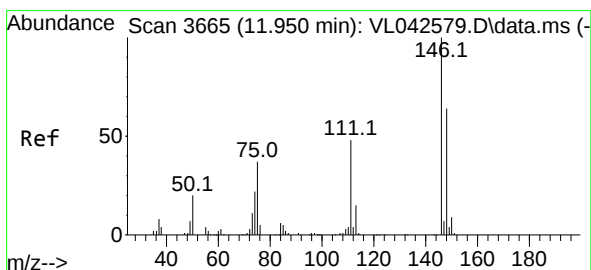
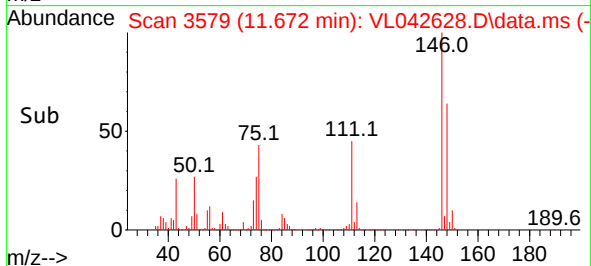
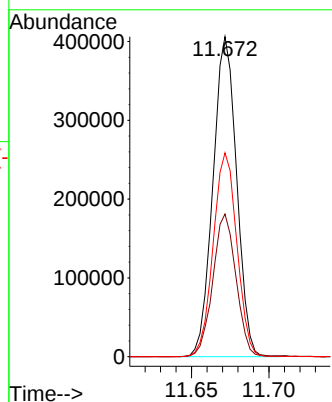
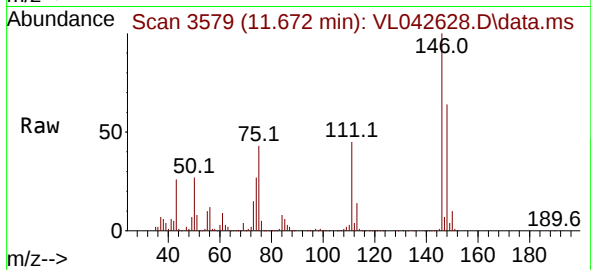
Tgt Ion:146 Resp: 430999

Ion Ratio Lower Upper

146 100

111 43.8 21.6 64.8

148 63.9 32.1 96.5



#77

1,2-Dichlorobenzene

Concen: 17.851 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.278 min

Lab File: VL042628.D

Acq: 16 Jun 2025 14:35

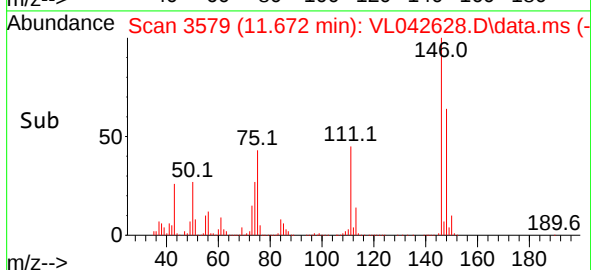
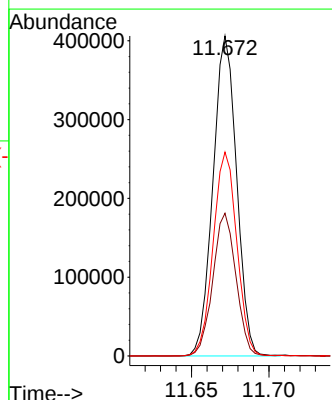
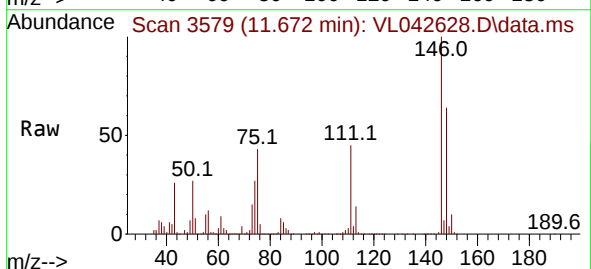
Tgt Ion:146 Resp: 430999

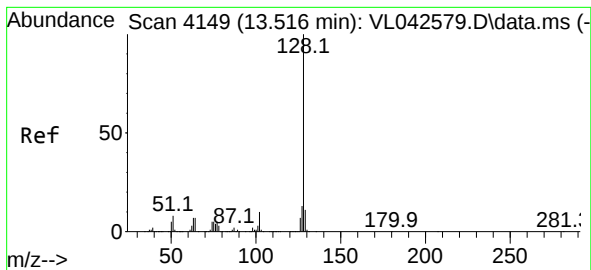
Ion Ratio Lower Upper

146 100

111 43.8 23.1 69.3

148 63.9 32.1 96.3





#79

Naphthalene

Concen: 0.079 ppbv

RT: 13.513 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042628.D

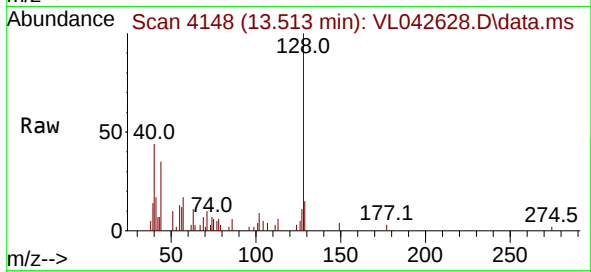
Acq: 16 Jun 2025 14:35

Instrument :

MSVOA_L

ClientSampleId :

115-IA-1



Tgt Ion:	128	Resp:	2932
Ion	Ratio	Lower	Upper
128	100		
127	9.7	10.2	15.4#
129	12.8	8.8	13.2

