

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043166.D
 Acq On : 06 Nov 2025 14:22
 Operator : SY/MD
 Sample : Q3555-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-SG-2DL

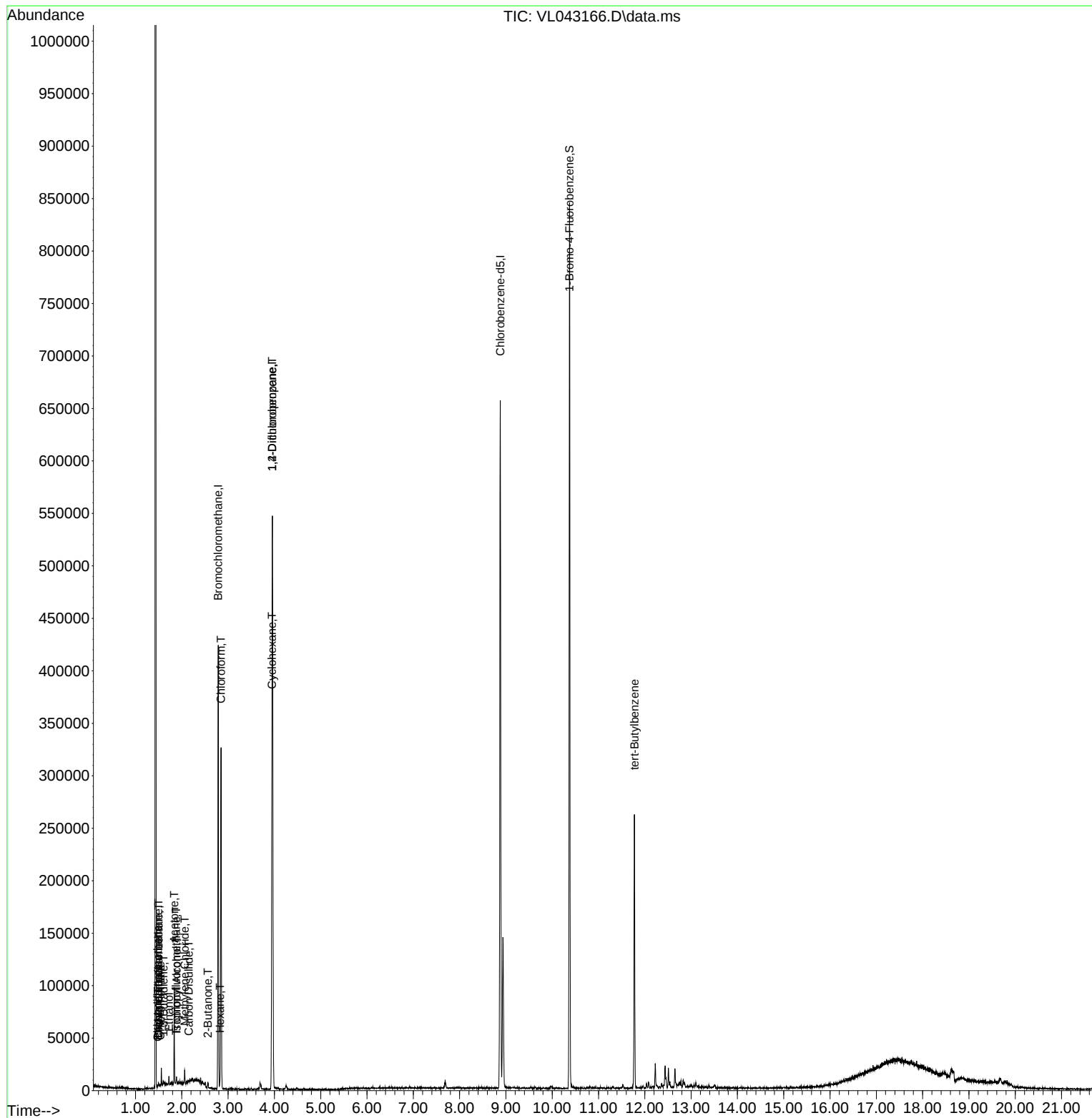
Quant Time: Nov 07 00:22:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	112780	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	323131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	266609	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	206566	9.968	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	833	0.052	ppbv #	67
3) Chlorodifluoromethane	1.479	51	981	0.057	ppbv #	87
4) Chloromethane	1.534	50	211	0.033	ppbv #	6
8) Dichlorotetrafluoroethane	1.499	85	833	0.064	ppbv #	30
9) Propene	1.486	41	509	0.066	ppbv	94
11) Trichlorofluoromethane	1.877	101	629	0.040	ppbv	88
13) Ethanol	1.722	45	2513	0.883	ppbv #	38
15) Acetone	1.835	43	37086	2.440	ppbv	95
16) 1,3-Butadiene	1.602	39	566	0.078	ppbv #	44
19) Isopropyl Alcohol	1.887	45	2663	0.281	ppbv #	1
20) Methylene Chloride	2.062	84	1970	0.328	ppbv #	64
26) Hexane	2.826	57	1365	0.079	ppbv #	31
27) Carbon Disulfide	2.149	76	586	0.037	ppbv #	68
29) Chloroform	2.848	83	135444	5.382	ppbv	99
30) Cyclohexane	3.946	84	668	0.044	ppbv #	12
34) 2-Butanone	2.560	43	3218	0.148	ppbv	93
39) 1,2-Dichloropropane	3.955	63	82420	7.408	ppbv #	25
65) tert-Butylbenzene	11.775	119	2049	0.036	ppbv #	11

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

Quant Time: Nov 07 00:22:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
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QLast Update : Wed Oct 15 02:12:58 2025
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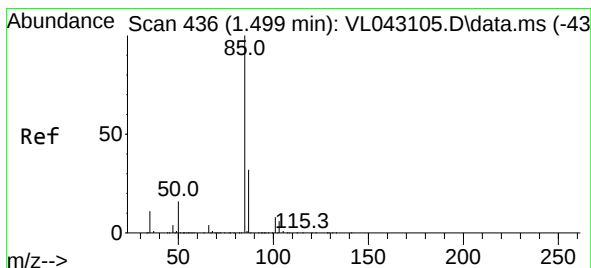
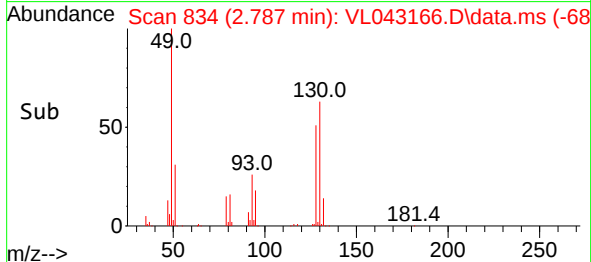
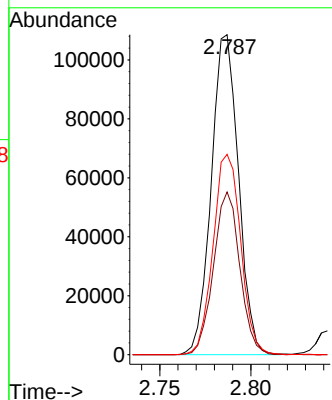
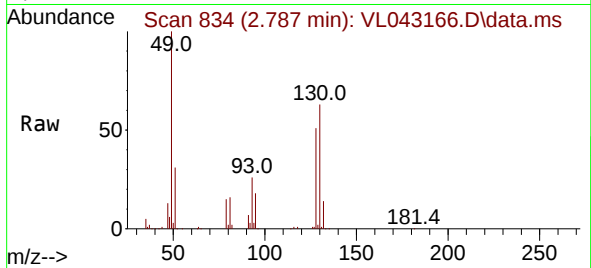




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
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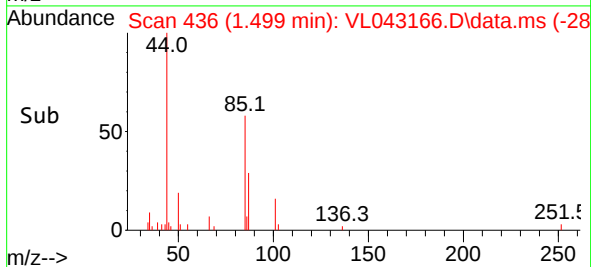
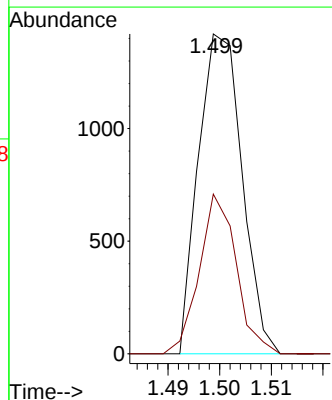
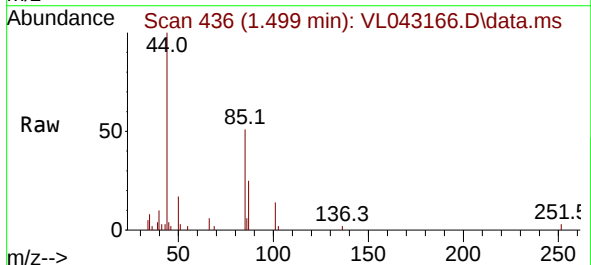
Instrument :
MSVOA_L
ClientSampleId :
151-SG-2DL

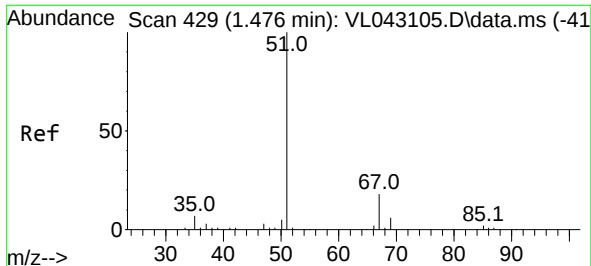
Tgt Ion: 49 Resp: 112780
Ion Ratio Lower Upper
49 100
128 49.2 24.4 73.4
130 63.8 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.052 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043166.D
Acq: 06 Nov 2025 14:22

Tgt Ion: 85 Resp: 833
Ion Ratio Lower Upper
85 100
87 49.9 25.3 37.9#





#3

Chlorodifluoromethane

Concen: 0.057 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043166.D

Acq: 06 Nov 2025 14:22

Instrument :

MSVOA_L

ClientSampleId :

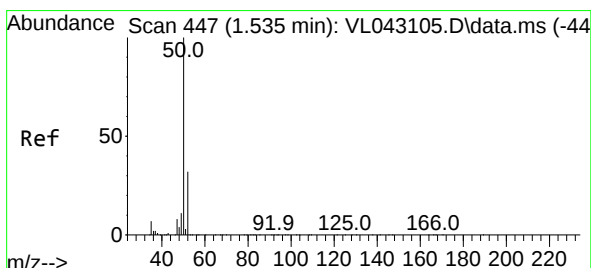
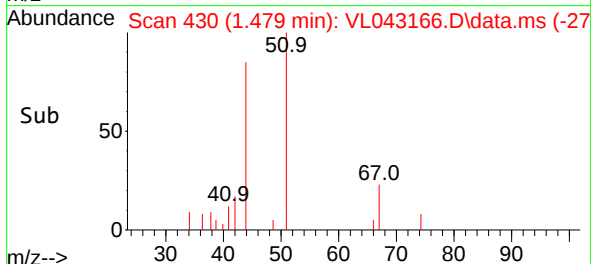
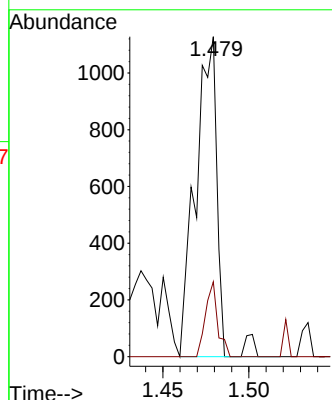
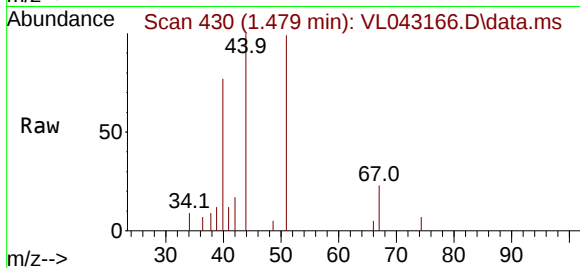
151-SG-2DL

Tgt Ion: 51 Resp: 981

Ion Ratio Lower Upper

51 100

67 13.3 15.1 22.7#



#4

Chloromethane

Concen: 0.033 ppbv

RT: 1.534 min Scan# 447

Delta R.T. -0.000 min

Lab File: VL043166.D

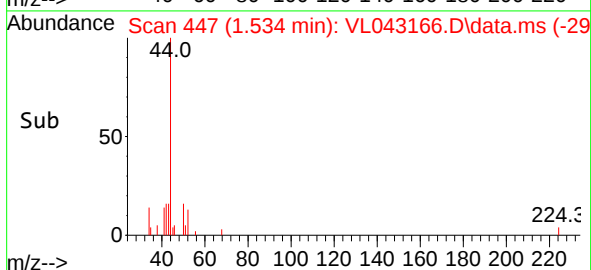
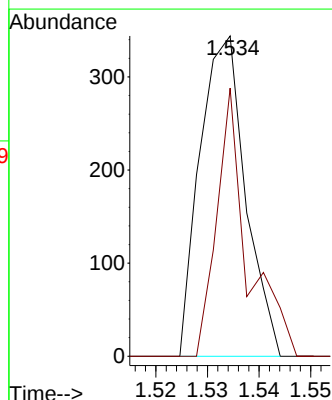
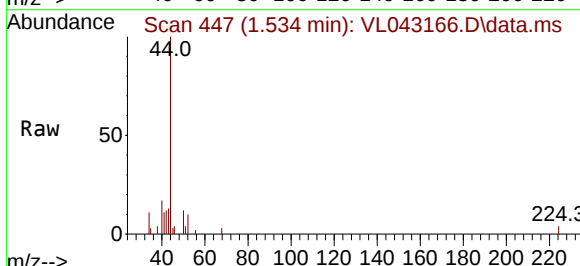
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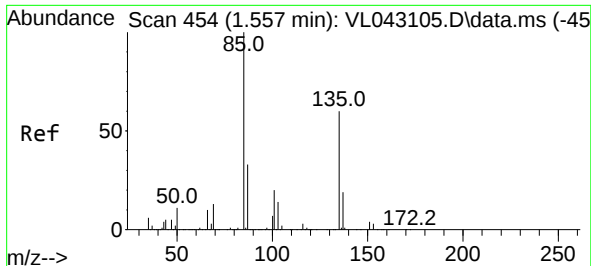
Tgt Ion: 50 Resp: 211

Ion Ratio Lower Upper

50 100

52 83.7 25.2 37.8#

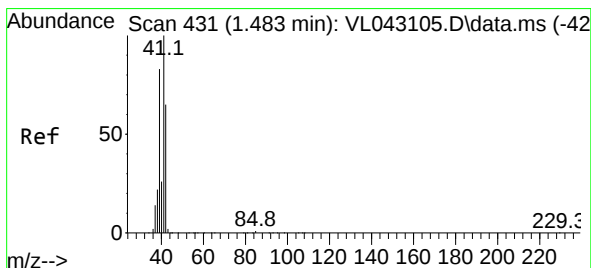
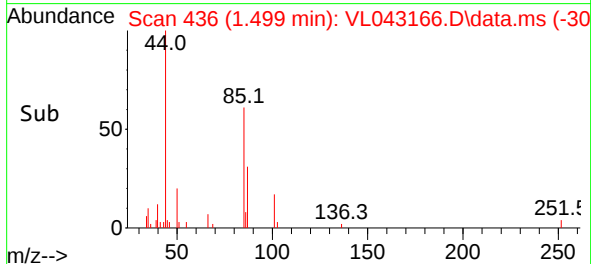
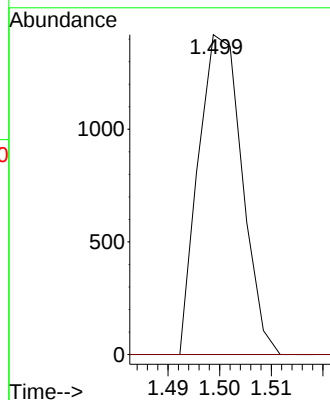
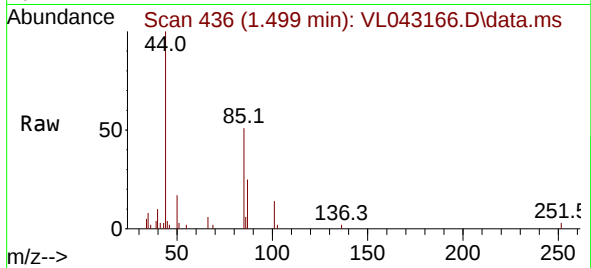




#8
Dichlorotetrafluoroethane
Concen: 0.064 ppbv
RT: 1.499 min Scan# 411
Delta R.T. -0.058 min
Lab File: VL043166.D
Acq: 06 Nov 2025 14:22

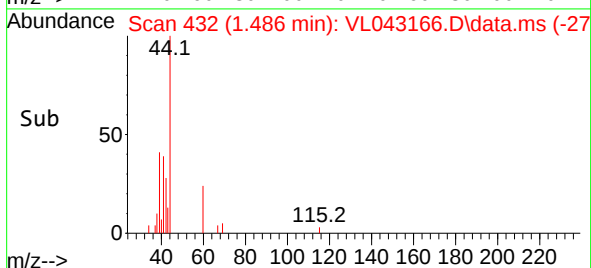
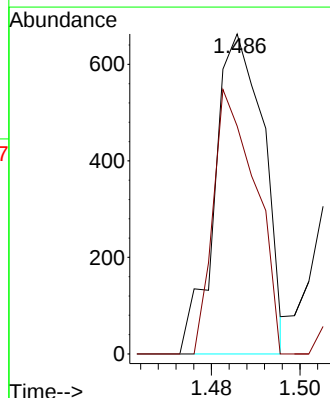
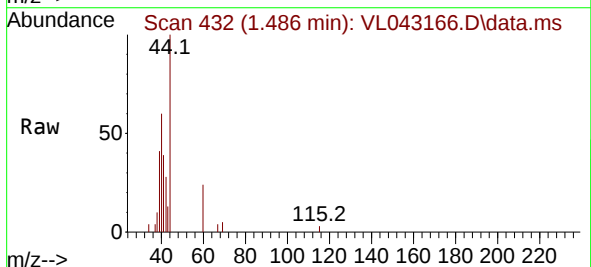
Instrument :
MSVOA_L
ClientSampleId :
151-SG-2DL

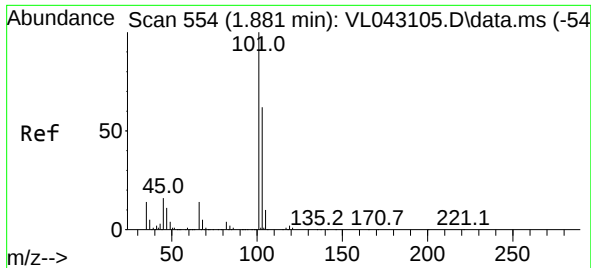
Tgt Ion: 85 Resp: 833
Ion Ratio Lower Upper
85 100
135 7.2 48.2 72.4#



#9
Propene
Concen: 0.066 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043166.D
Acq: 06 Nov 2025 14:22

Tgt Ion: 41 Resp: 509
Ion Ratio Lower Upper
41 100
42 73.7 55.1 82.7

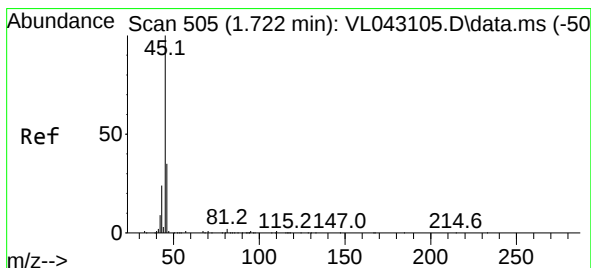
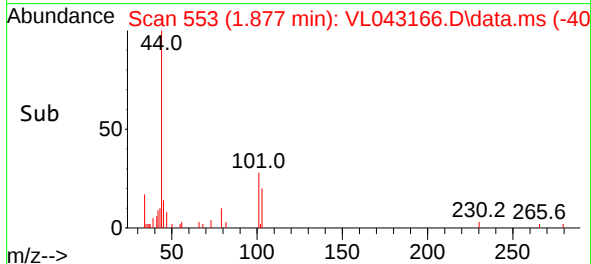
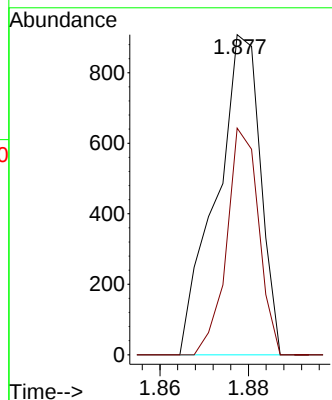
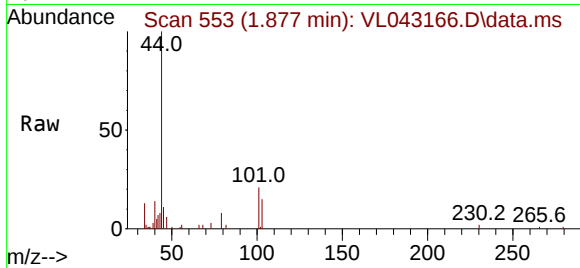




#11
 Trichlorofluoromethane
 Concen: 0.040 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL043166.D
 Acq: 06 Nov 2025 14:22

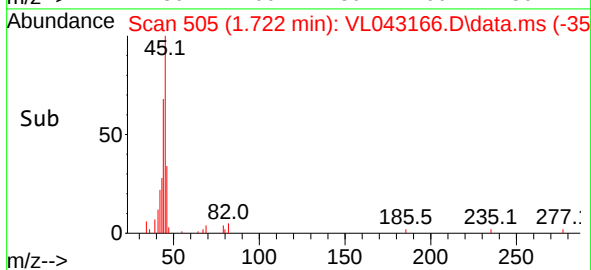
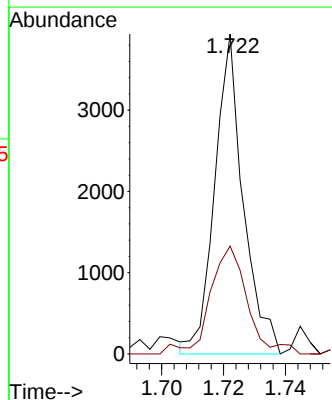
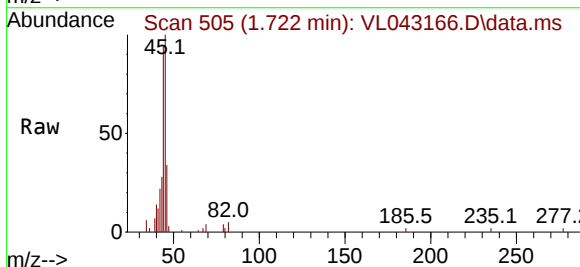
Instrument :
 MSVOA_L
 ClientSampleId :
 151-SG-2DL

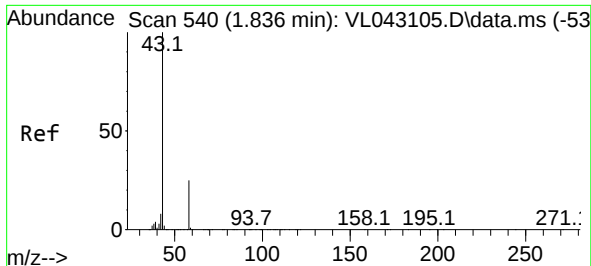
Tgt Ion:101 Resp: 629
 Ion Ratio Lower Upper
 101 100
 103 70.8 49.3 73.9



#13
 Ethanol
 Concen: 0.883 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. -0.000 min
 Lab File: VL043166.D
 Acq: 06 Nov 2025 14:22

Tgt Ion: 45 Resp: 2513
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.7 58.9#





#15

Acetone

Concen: 2.440 ppbv

RT: 1.835 min Scan# 54

Delta R.T. -0.000 min

Lab File: VL043166.D

Acq: 06 Nov 2025 14:22

Instrument :

MSVOA_L

ClientSampleId :

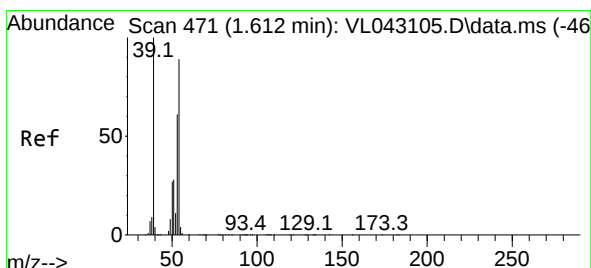
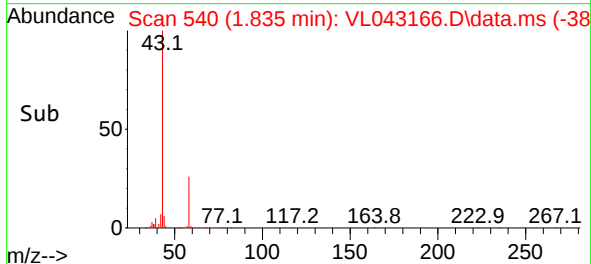
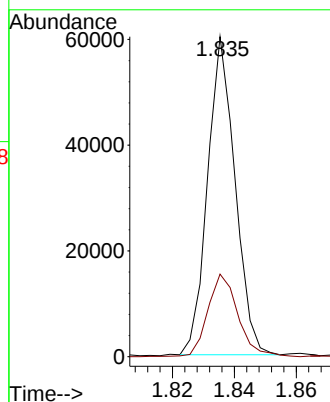
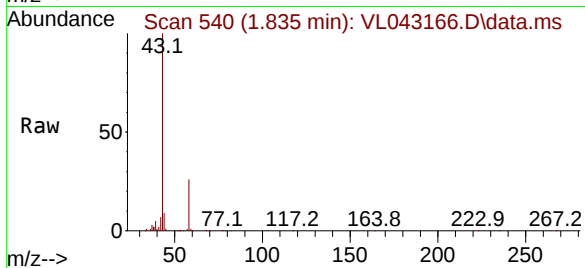
151-SG-2DL

Tgt Ion: 43 Resp: 37086

Ion Ratio Lower Upper

43 100

58 28.7 20.8 31.2



#16

1,3-Butadiene

Concen: 0.078 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.010 min

Lab File: VL043166.D

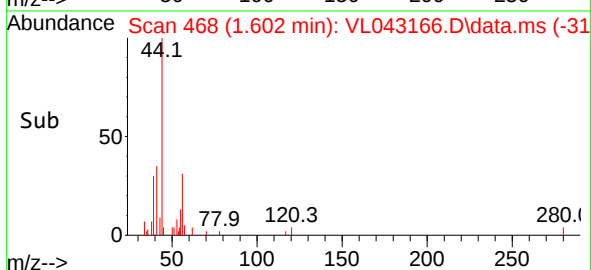
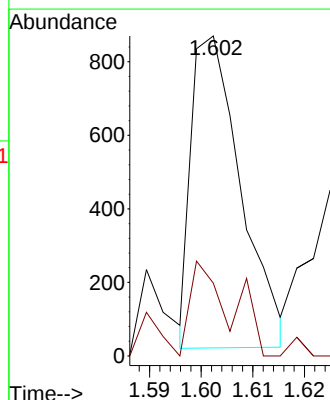
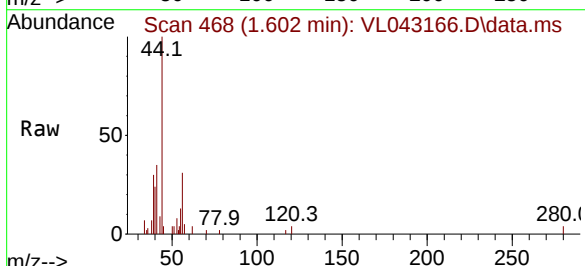
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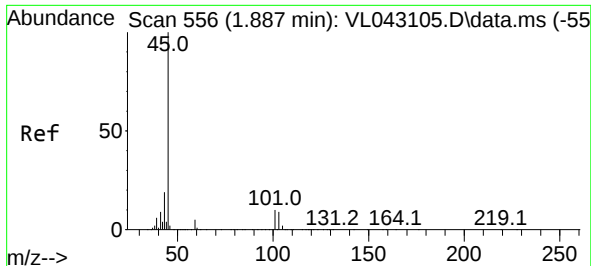
Tgt Ion: 39 Resp: 566

Ion Ratio Lower Upper

39 100

54 26.9 59.0 88.4#

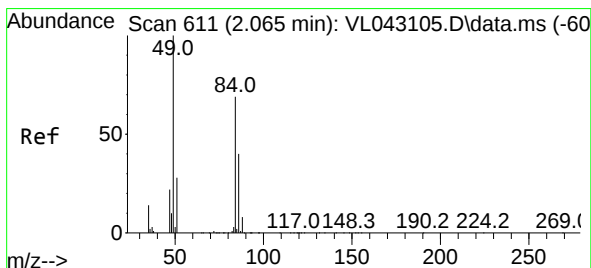
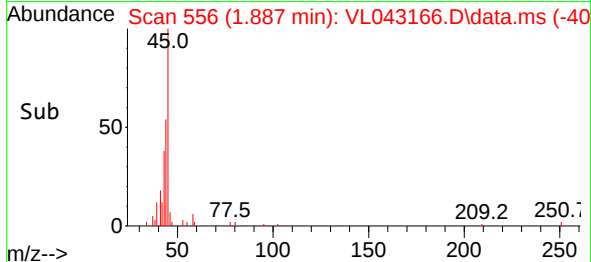
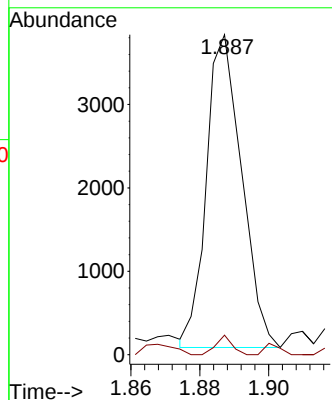
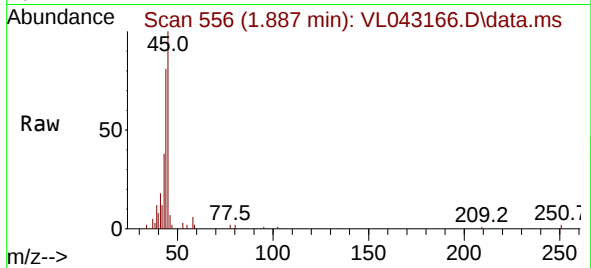




#19
Isopropyl Alcohol
Concen: 0.281 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043166.D
Acq: 06 Nov 2025 14:22

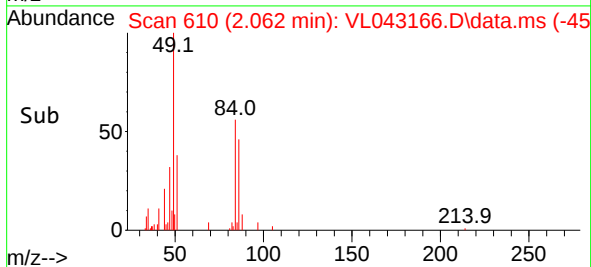
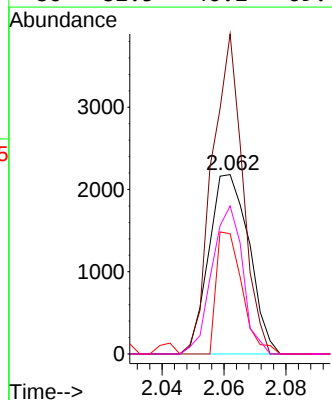
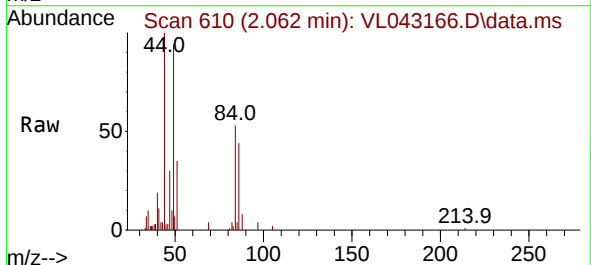
Instrument :
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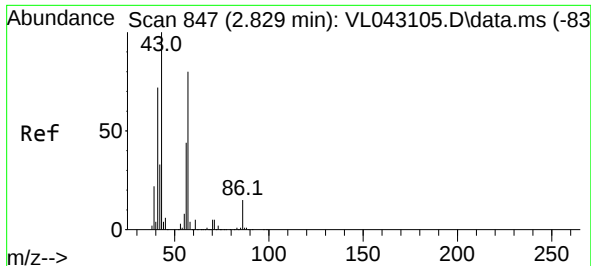
Tgt Ion: 45 Resp: 2663
Ion Ratio Lower Upper
45 100
58 400.3 31.3 46.9#



#20
Methylene Chloride
Concen: 0.328 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043166.D
Acq: 06 Nov 2025 14:22

Tgt Ion: 84 Resp: 1970
Ion Ratio Lower Upper
84 100
49 192.3 116.6 175.0#
51 67.0 34.8 52.2#
86 82.5 46.2 69.4#

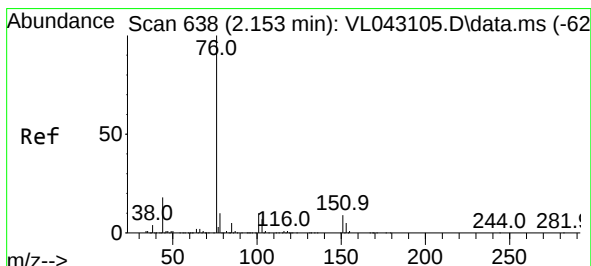
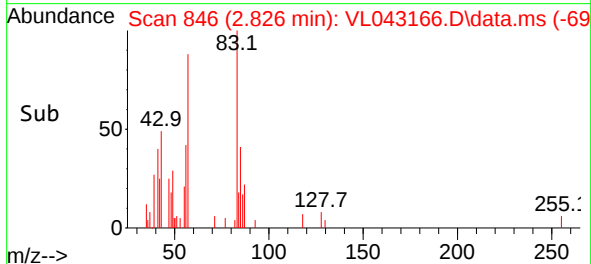
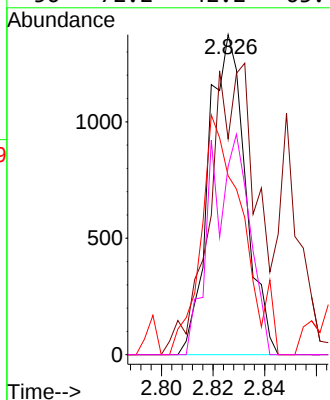
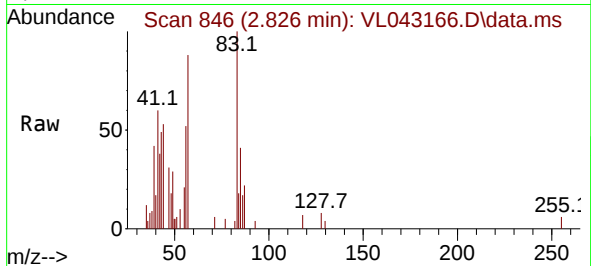




#26
Hexane
Concen: 0.079 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043166.D
Acq: 06 Nov 2025 14:22

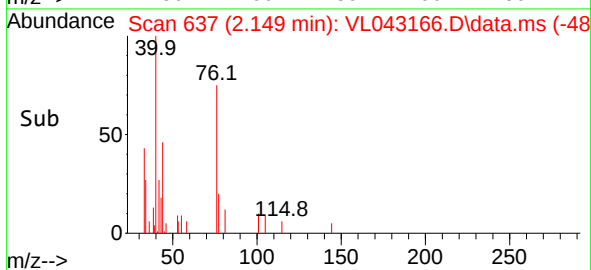
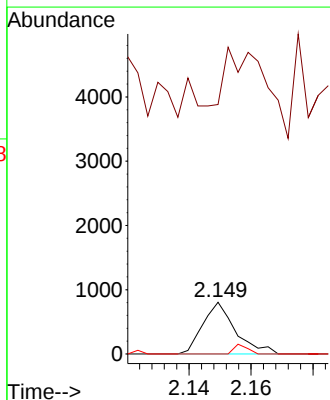
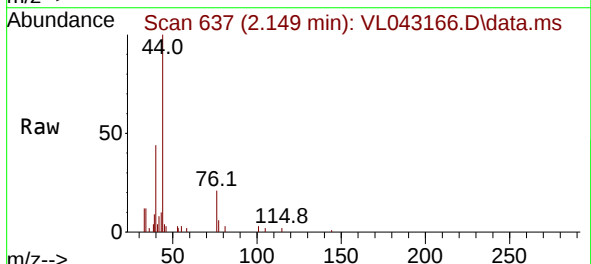
Instrument :
MSVOA_L
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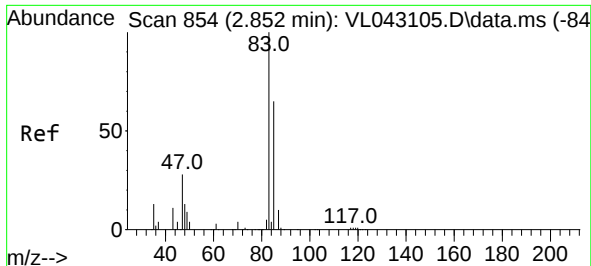
Tgt Ion:	57	Resp:	1365
Ion	Ratio	Lower	Upper
57	100		
41	153.4	71.4	107.0#
43	95.3	178.5	267.7#
56	72.2	42.2	63.4#



#27
Carbon Disulfide
Concen: 0.037 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.003 min
Lab File: VL043166.D
Acq: 06 Nov 2025 14:22

Tgt Ion:	76	Resp:	586
Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.7	25.1#
78	7.7	9.3	13.9#





#29

Chloroform

Concen: 5.382 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043166.D

Acq: 06 Nov 2025 14:22

Instrument :

MSVOA_L

ClientSampleId :

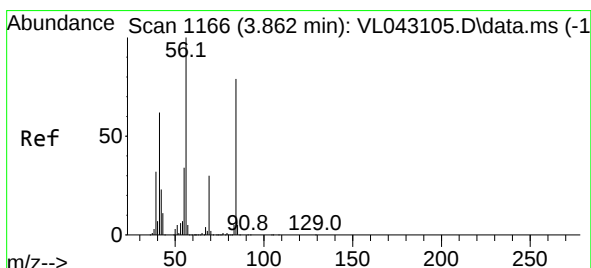
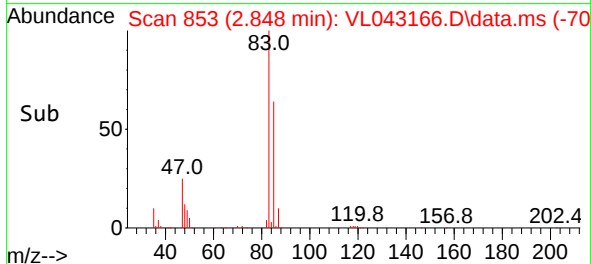
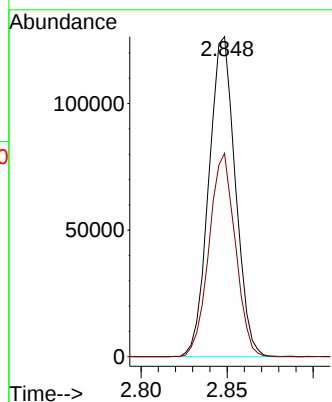
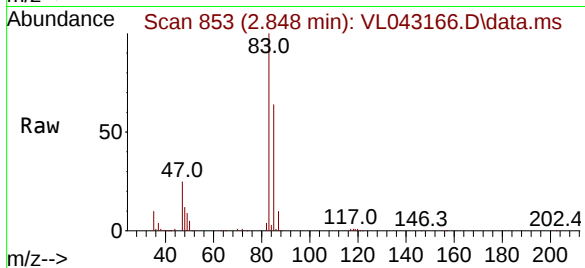
151-SG-2DL

Tgt Ion: 83 Resp: 135444

Ion Ratio Lower Upper

83 100

85 63.6 51.8 77.6



#30

Cyclohexane

Concen: 0.044 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. 0.084 min

Lab File: VL043166.D

Acq: 06 Nov 2025 14:22

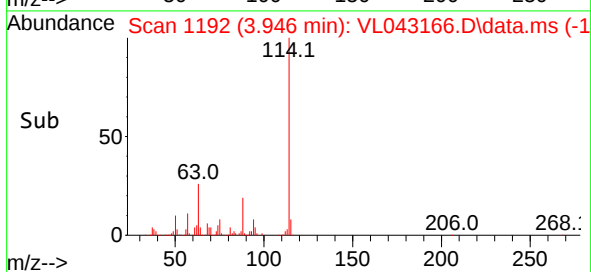
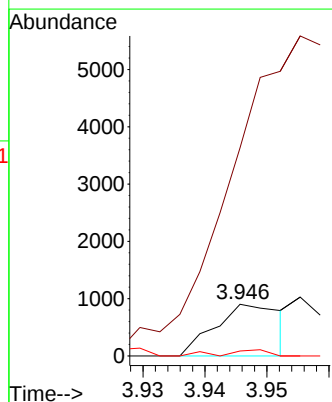
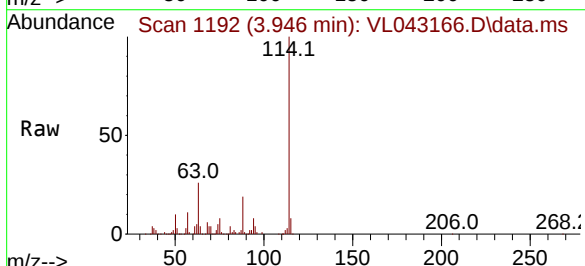
Tgt Ion: 84 Resp: 668

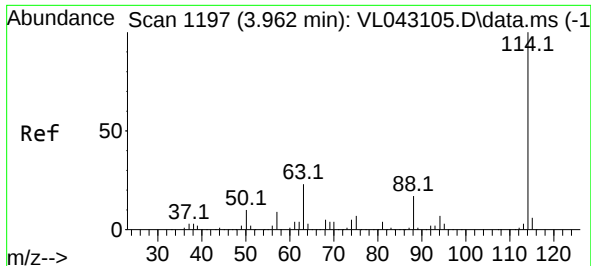
Ion Ratio Lower Upper

84 100

56 0.0 100.9 151.3#

41 32.5 63.8 95.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043166.D

Acq: 06 Nov 2025 14:22

Instrument :

MSVOA_1

ClientSampleId :

151-SG-2DL

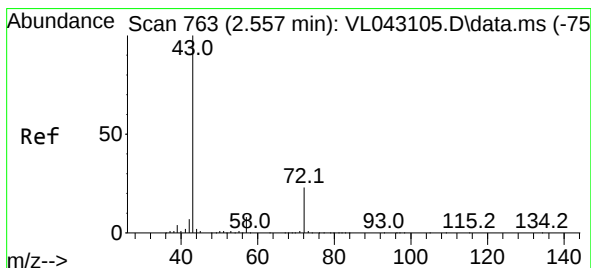
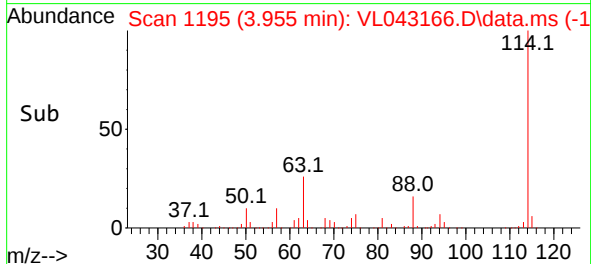
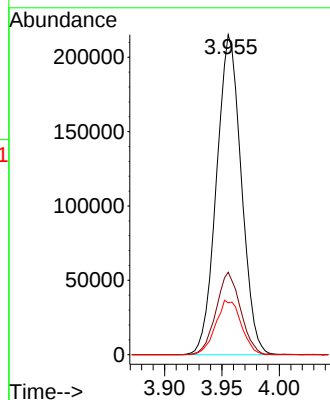
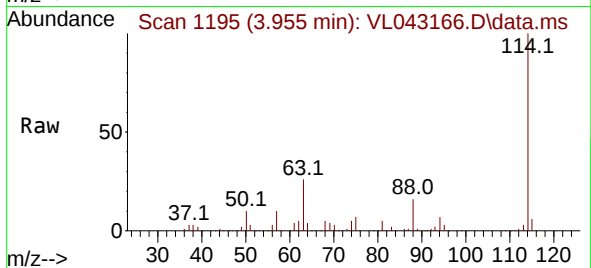
Tgt Ion:114 Resp: 323131

Ion Ratio Lower Upper

114 100

63 25.5 19.3 28.9

88 17.6 13.9 20.9



#34

2-Butanone

Concen: 0.148 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL043166.D

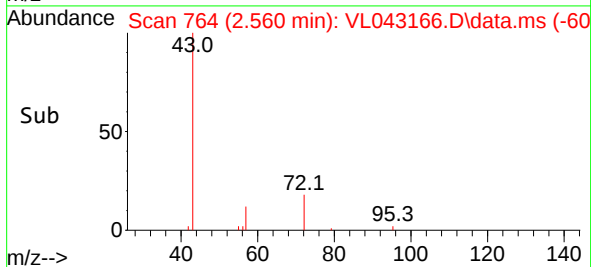
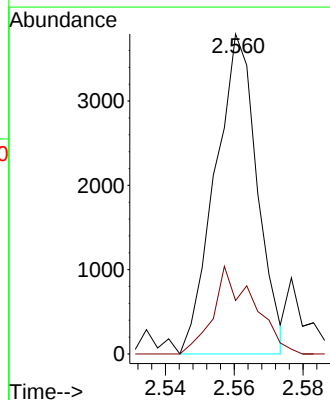
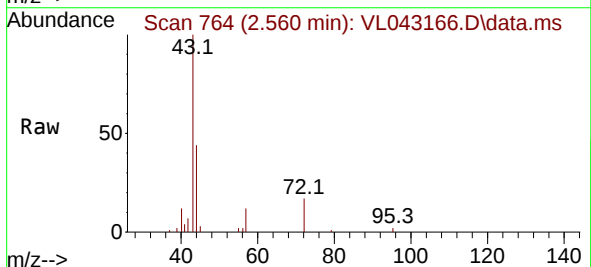
Acq: 06 Nov 2025 14:22

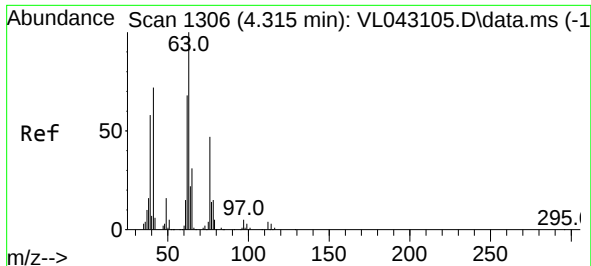
Tgt Ion: 43 Resp: 3218

Ion Ratio Lower Upper

43 100

72 26.3 18.4 27.6





#39

1,2-Dichloropropane

Concen: 7.408 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.360 min

Lab File: VL043166.D

Acq: 06 Nov 2025 14:22

Instrument :

MSVOA_L

ClientSampleId :

151-SG-2DL

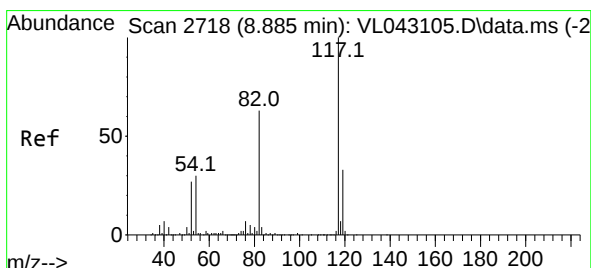
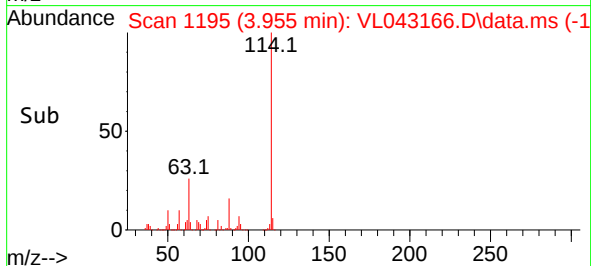
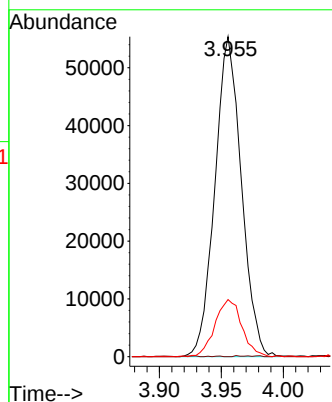
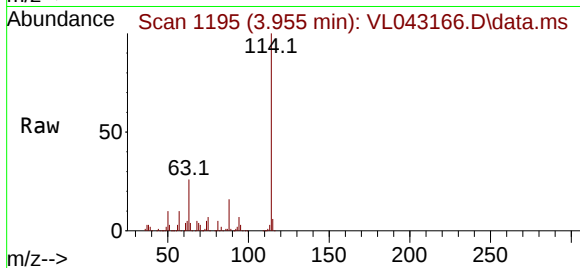
Tgt Ion: 63 Resp: 82420

Ion Ratio Lower Upper

63 100

41 0.0 58.0 87.0#

62 17.7 54.7 82.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2716

Delta R.T. -0.007 min

Lab File: VL043166.D

Acq: 06 Nov 2025 14:22

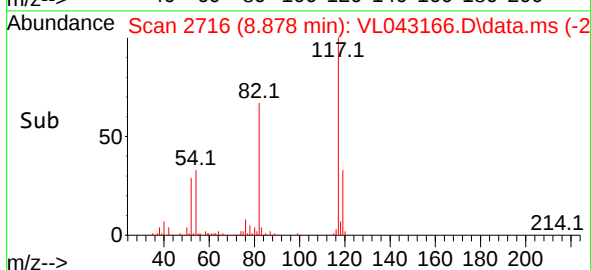
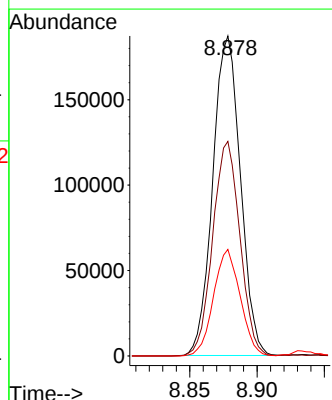
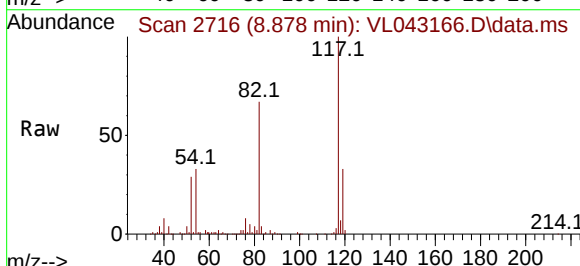
Tgt Ion: 117 Resp: 266609

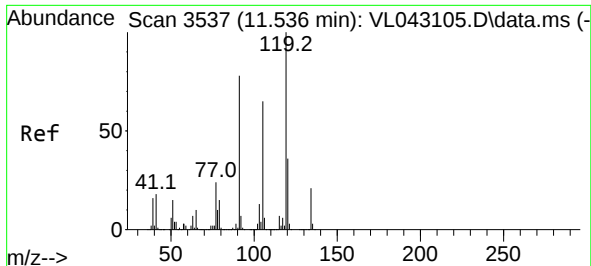
Ion Ratio Lower Upper

117 100

82 66.3 53.8 80.8

119 32.2 25.4 38.0

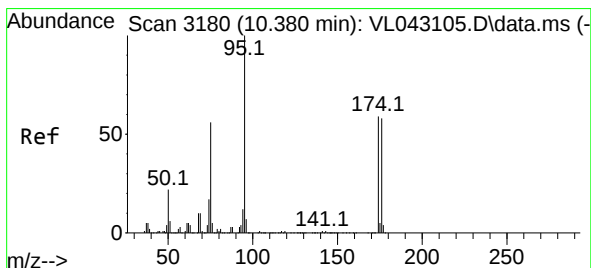
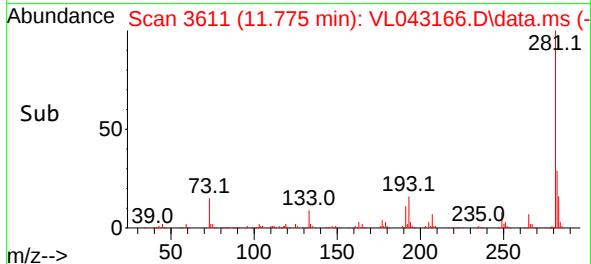
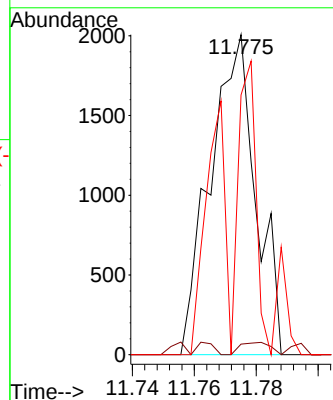
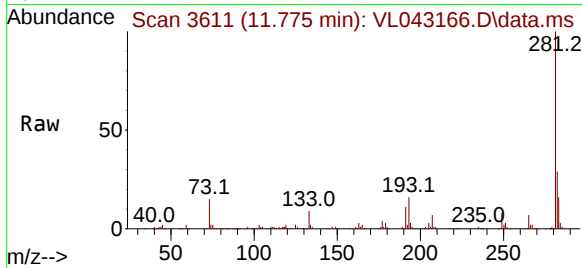




#65
 tert-Butylbenzene
 Concen: 0.036 ppbv
 RT: 11.775 min Scan# 3111
 Delta R.T. 0.239 min
 Lab File: VL043166.D
 Acq: 06 Nov 2025 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 151-SG-2DL

Tgt Ion:119 Resp: 2049
 Ion Ratio Lower Upper
 119 100
 91 7.1 63.4 95.0#
 134 76.3 17.3 25.9#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.968 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.007 min
 Lab File: VL043166.D
 Acq: 06 Nov 2025 14:22

Tgt Ion: 95 Resp: 206566
 Ion Ratio Lower Upper
 95 100
 174 64.2 48.3 72.5
 175 4.8 3.8 5.8

