

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042819.D
 Acq On : 04 Aug 2025 23:04
 Operator : SY/MD
 Sample : Q2750-08DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-9DL

Quant Time: Aug 05 01:14:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

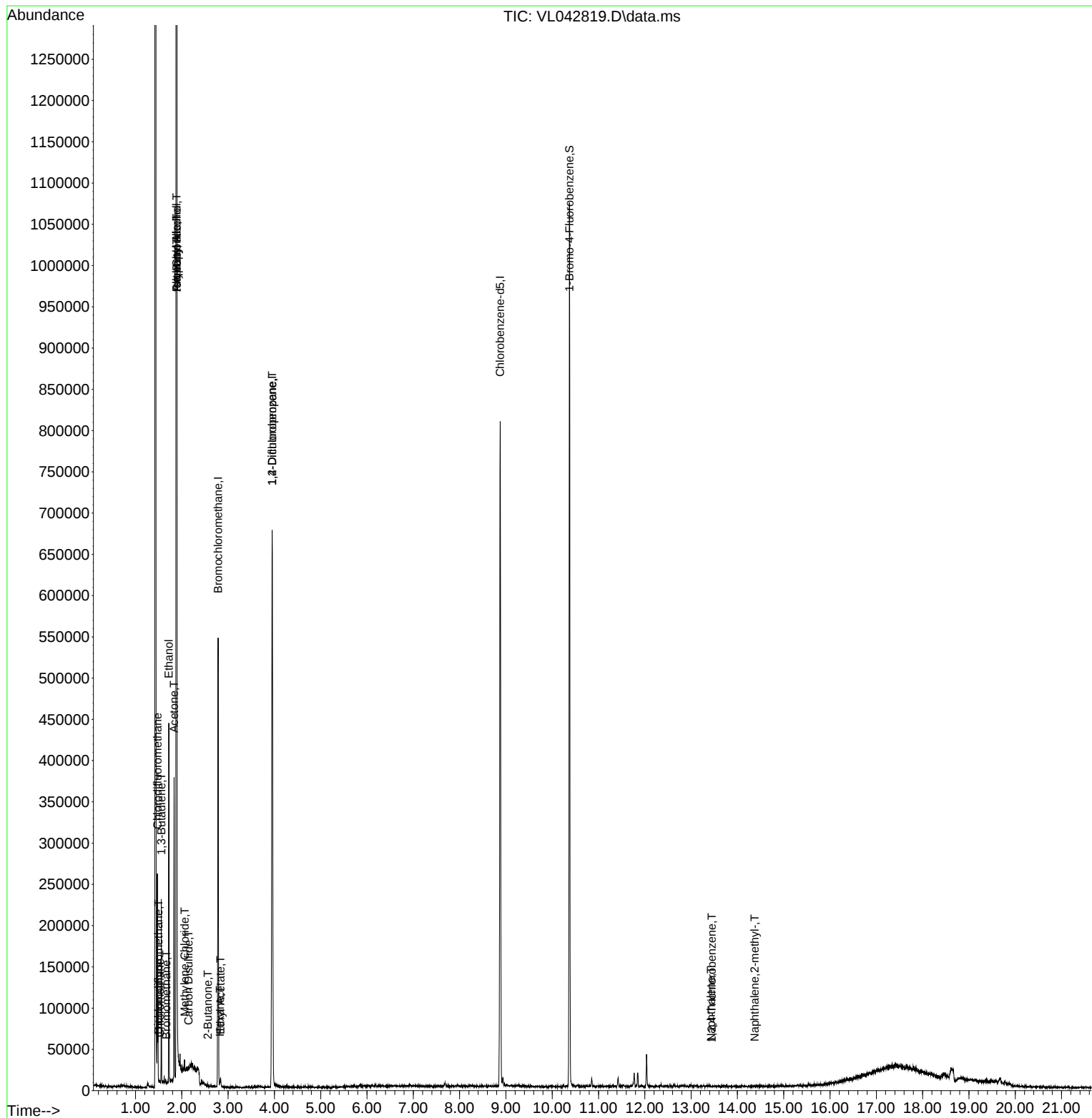
Internal Standards						
1) Bromochloromethane	2.784	49	146039	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	370265	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	315446	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	241976	9.686	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	460	0.024	ppbv	96
3) Chlorodifluoromethane	1.473	51	72506	2.883	ppbv	98
4) Chloromethane	1.528	50	373	0.048	ppbv	89
6) Bromomethane	1.664	94	96	0.032	ppbv #	1
9) Propene	1.887	41	819160	89.607	ppbv	93
13) Ethanol	1.719	45	147608	220.605	ppbv	90
15) Acetone	1.832	43	154472	7.660	ppbv	99
16) 1,3-Butadiene	1.557	39	12483	1.451	ppbv #	17
17) tert-Butyl alcohol	1.887	59	341416	18.772	ppbv	95
19) Isopropyl Alcohol	1.887	45	3693911	344.700	ppbv #	40
20) Methylene Chloride	2.062	84	1789	0.282	ppbv #	61
21) Allyl Chloride	1.887	41	819160	65.910	ppbv #	84
25) Ethyl Acetate	2.832	43	4921	0.110	ppbv #	71
26) Hexane	2.826	57	500	0.026	ppbv #	1
27) Carbon Disulfide	2.146	76	2060	0.123	ppbv #	64
34) 2-Butanone	2.561	43	1637	0.062	ppbv	99
39) 1,2-Dichloropropane	3.952	63	94166	7.270	ppbv #	22
79) Naphthalene	13.432	128	43	0.436	ppbv #	69
80) Naphthalene,2-methyl-	14.374	142	47	1.130	ppbv #	63
81) 1,2,4-Trichlorobenzene	13.445	180	26	0.436	ppbv #	12

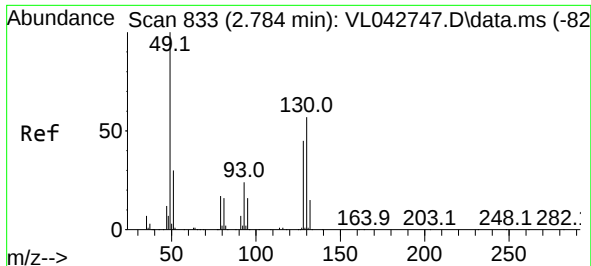
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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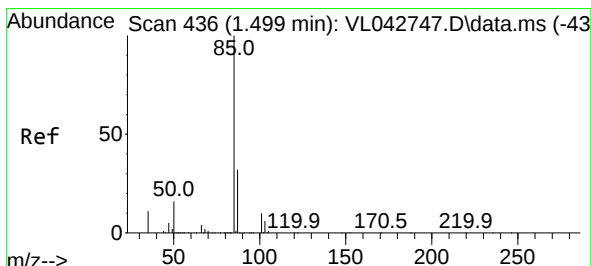
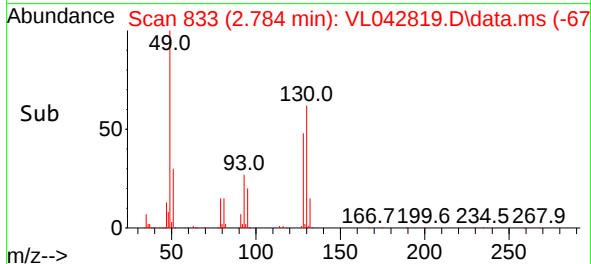
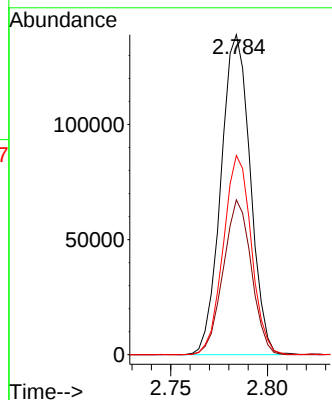
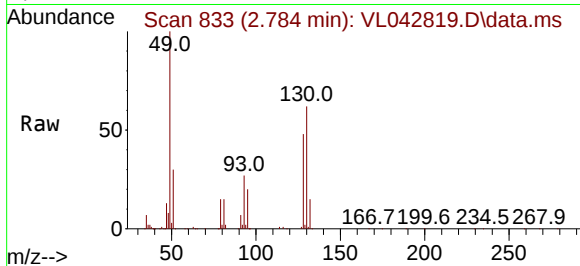




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: VL042819.D
 Acq: 04 Aug 2025 23:04

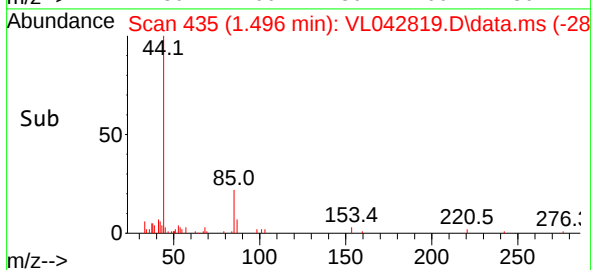
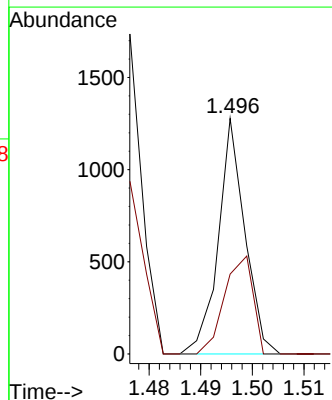
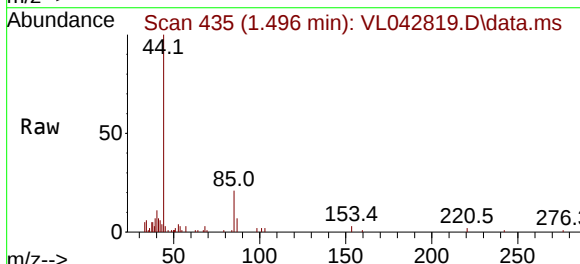
Instrument :
 MSVOA_L
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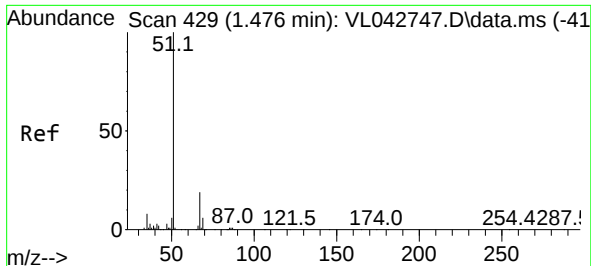
Tgt Ion: 49 Resp: 146039
 Ion Ratio Lower Upper
 49 100
 128 46.5 23.6 71.0
 130 59.9 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.024 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042819.D
 Acq: 04 Aug 2025 23:04

Tgt Ion: 85 Resp: 460
 Ion Ratio Lower Upper
 85 100
 87 33.9 25.4 38.2

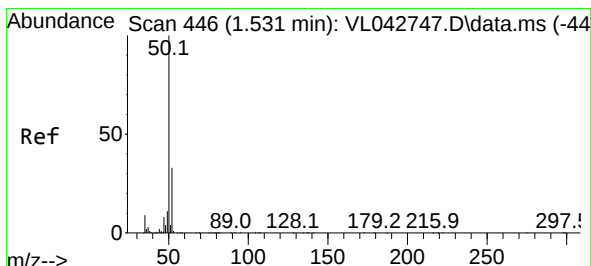
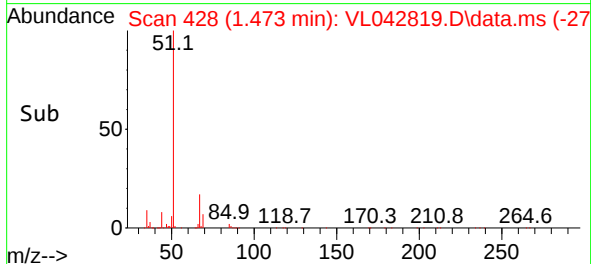
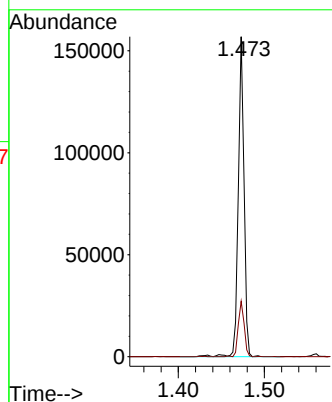
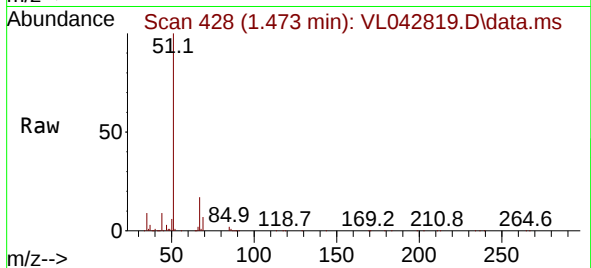




#3
Chlorodifluoromethane
Concen: 2.883 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

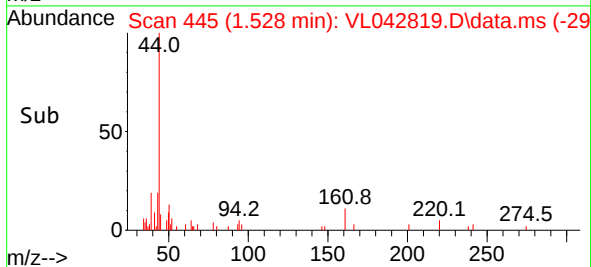
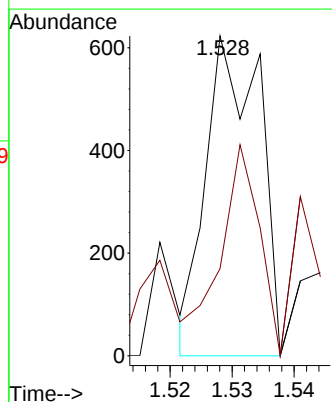
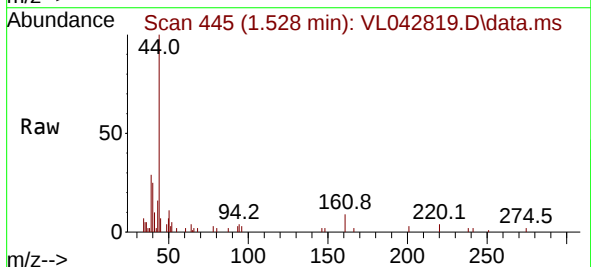
Instrument :
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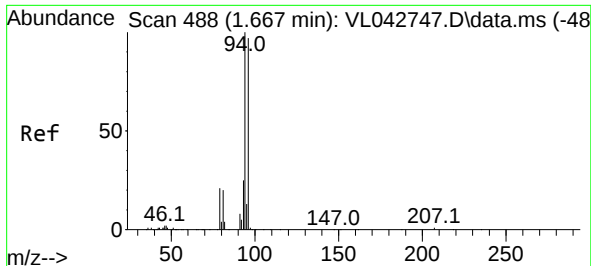
Tgt Ion: 51 Resp: 72506
Ion Ratio Lower Upper
51 100
67 17.8 15.0 22.6



#4
Chloromethane
Concen: 0.048 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 50 Resp: 373
Ion Ratio Lower Upper
50 100
52 27.3 26.6 40.0

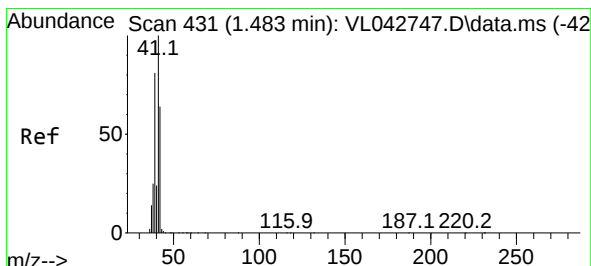
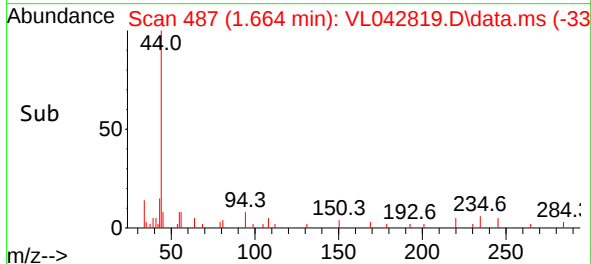
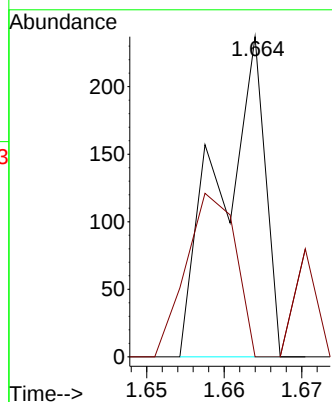
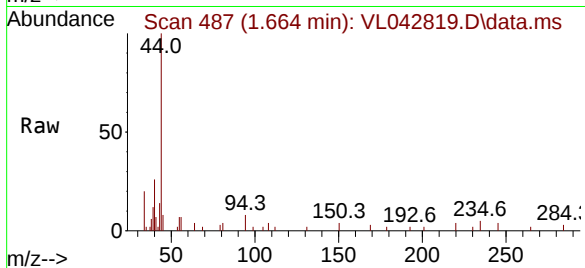




#6
Bromomethane
Concen: 0.032 ppbv
RT: 1.664 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

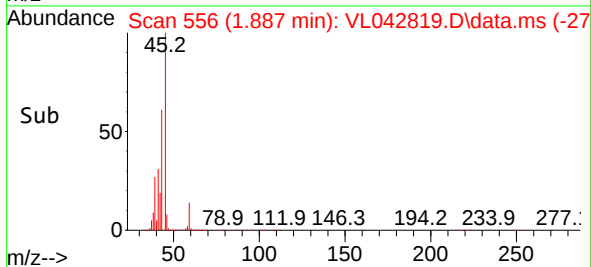
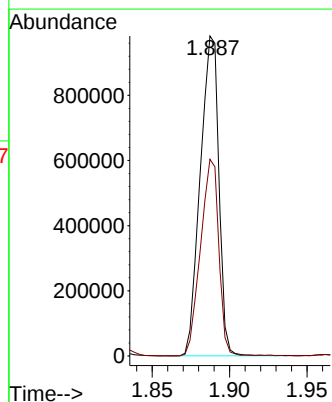
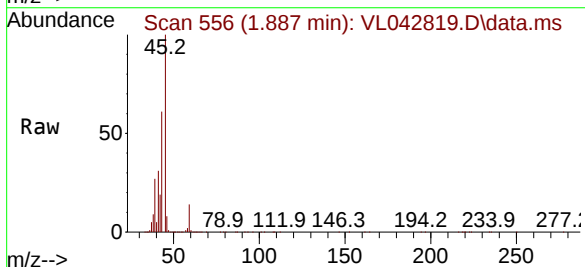
Instrument :
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ClientSampleId :
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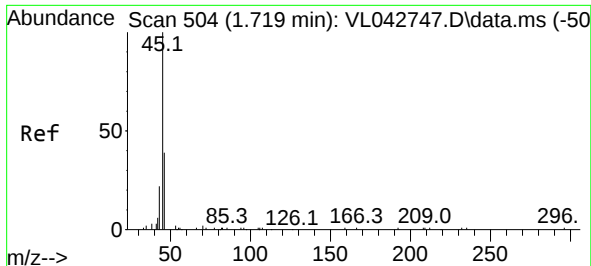
Tgt Ion: 94 Resp: 96
Ion Ratio Lower Upper
94 100
96 0.0 77.6 116.4#



#9
Propene
Concen: 89.607 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.405 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 41 Resp: 819160
Ion Ratio Lower Upper
41 100
42 60.6 53.2 79.8

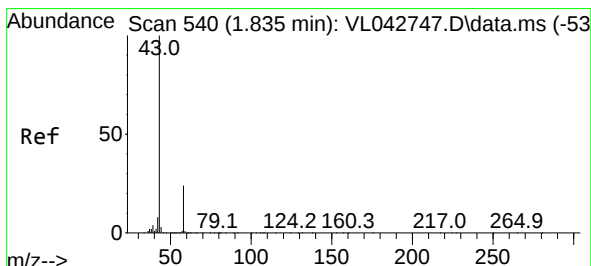
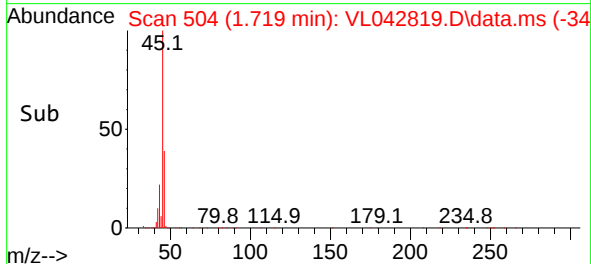
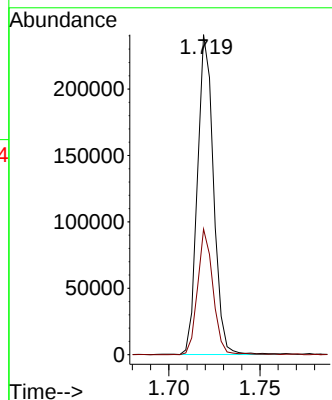
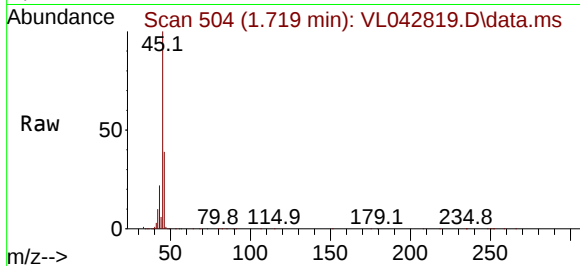




#13
Ethanol
Concen: 220.605 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

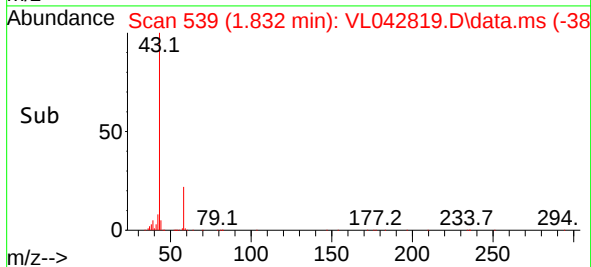
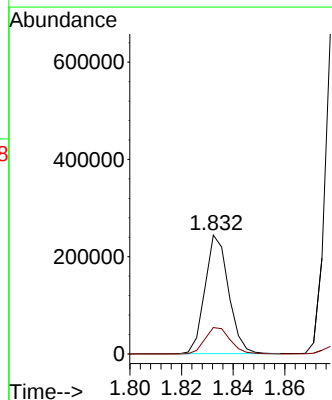
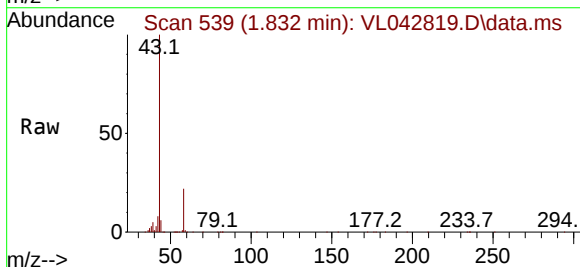
Instrument :
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ClientSampleId :
WONDER IA-9DL

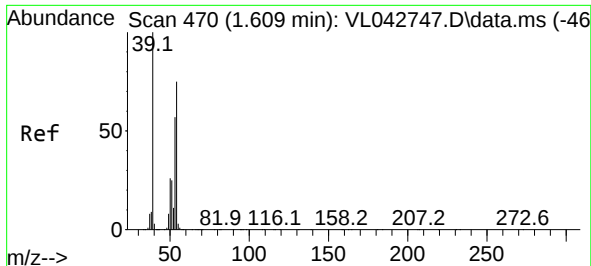
Tgt Ion: 45 Resp: 147608
Ion Ratio Lower Upper
45 100
46 37.8 17.8 71.4



#15
Acetone
Concen: 7.660 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 43 Resp: 154472
Ion Ratio Lower Upper
43 100
58 24.1 19.8 29.8

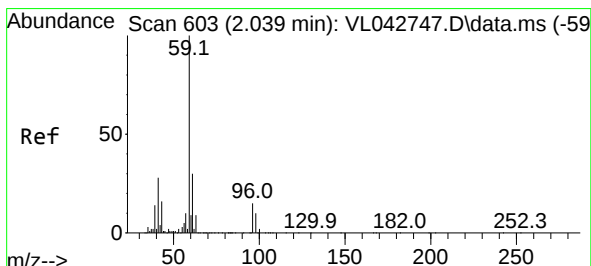
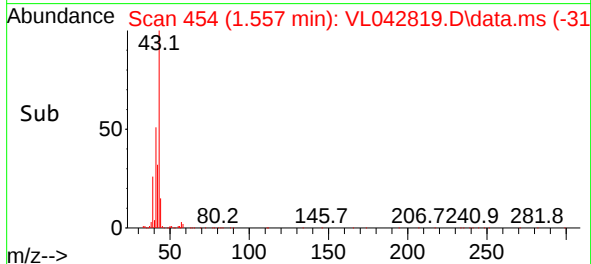
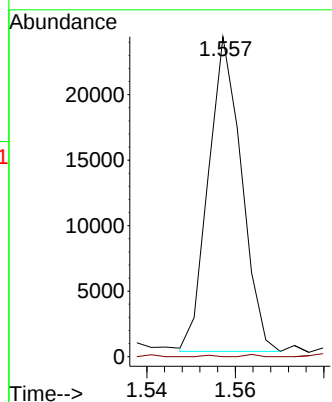
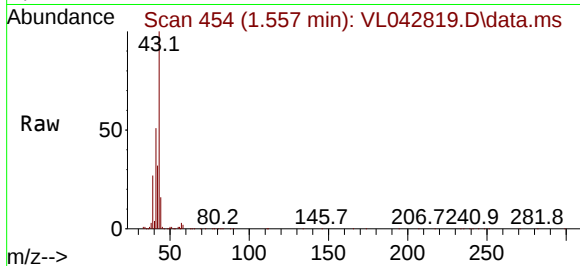




#16
1,3-Butadiene
Concen: 1.451 ppbv
RT: 1.557 min Scan# 41
Delta R.T. -0.052 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

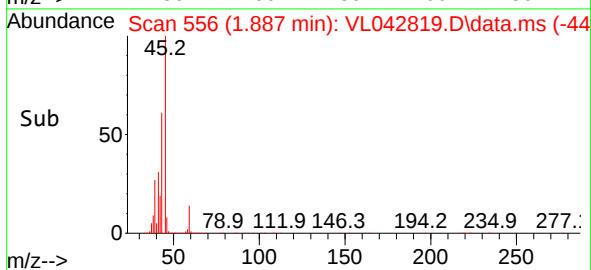
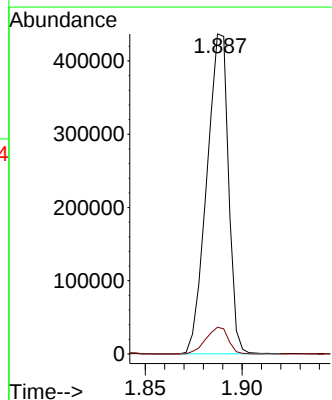
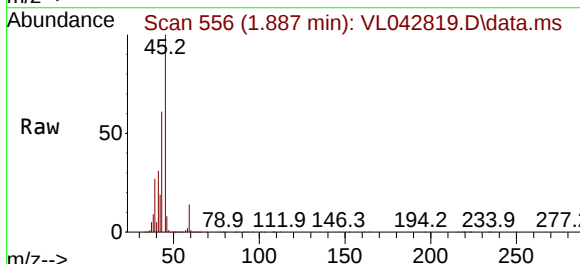
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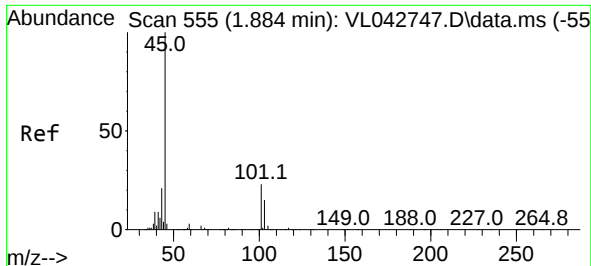
Tgt Ion: 39 Resp: 12483
Ion Ratio Lower Upper
39 100
54 1.4 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 18.772 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.152 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 59 Resp: 341416
Ion Ratio Lower Upper
59 100
57 8.5 8.3 12.5

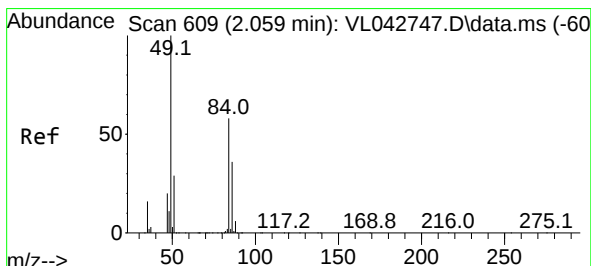
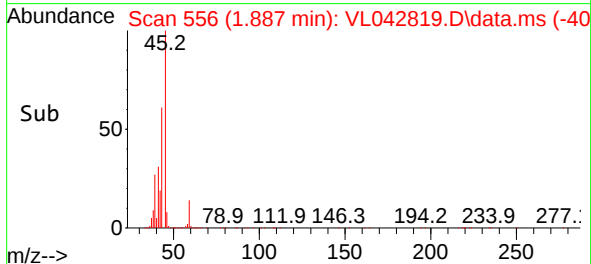
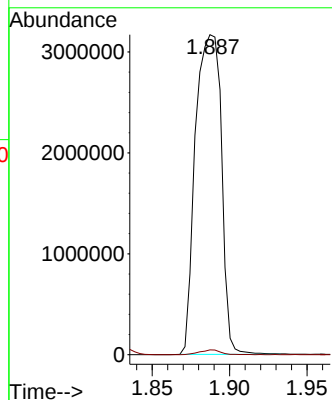
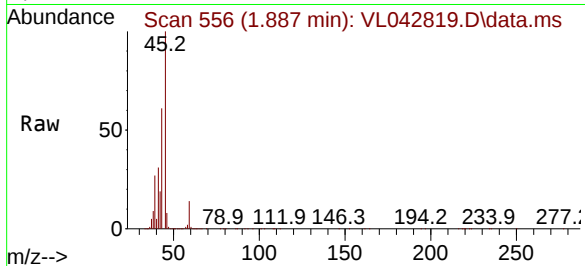




#19
Isopropyl Alcohol
Concen: 344.700 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

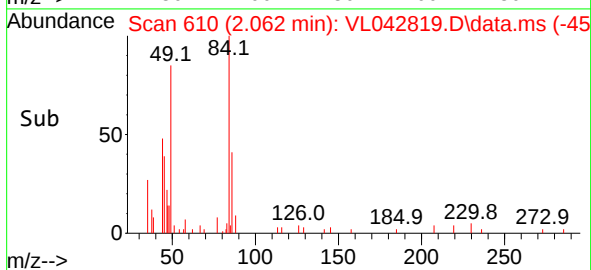
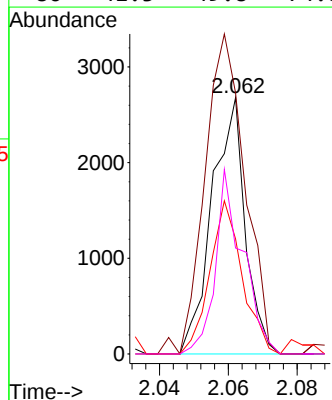
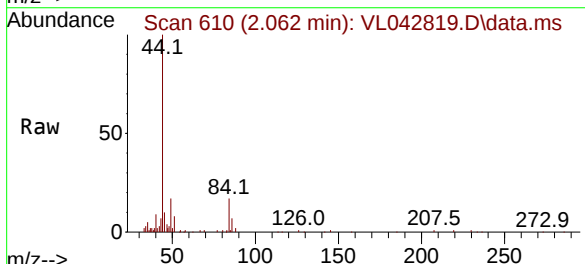
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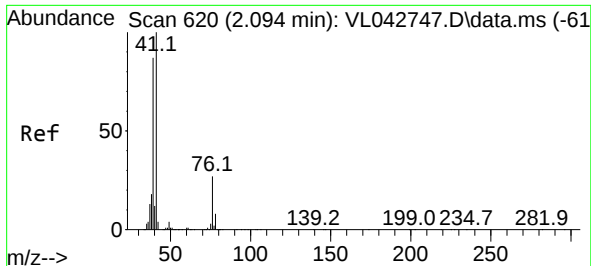
Tgt Ion: 45 Resp: 3693911
Ion Ratio Lower Upper
45 100
58 1.3 30.0 45.0#



#20
Methylene Chloride
Concen: 0.282 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 84 Resp: 1789
Ion Ratio Lower Upper
84 100
49 101.9 138.6 208.0#
51 44.9 40.6 61.0
86 41.3 49.8 74.8#

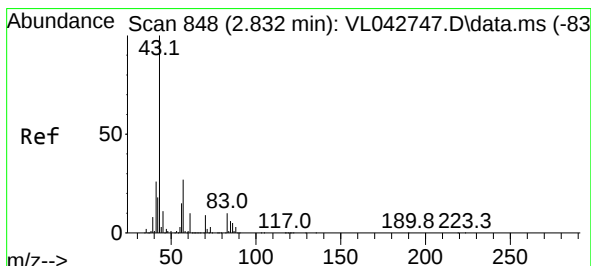
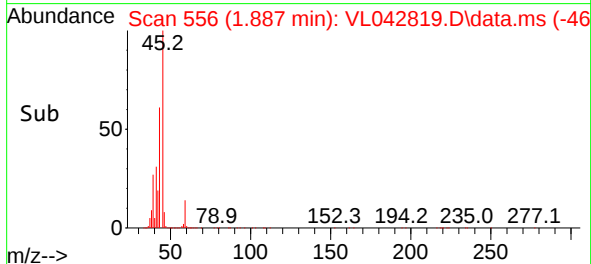
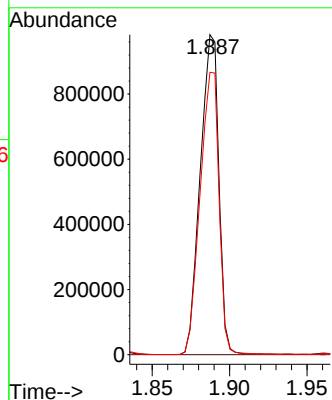
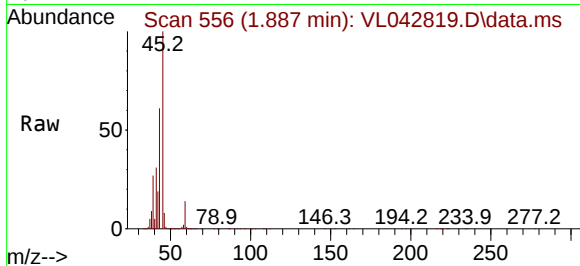




#21
 Allyl Chloride
 Concen: 65.910 ppbv
 RT: 1.887 min Scan# 51
 Delta R.T. -0.207 min
 Lab File: VL042819.D
 Acq: 04 Aug 2025 23:04

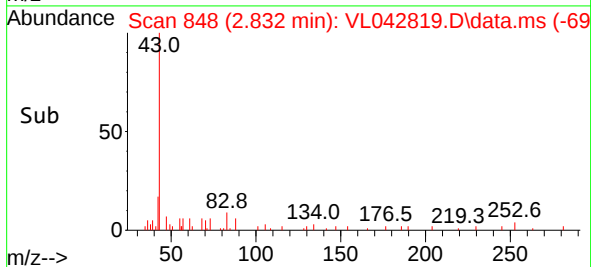
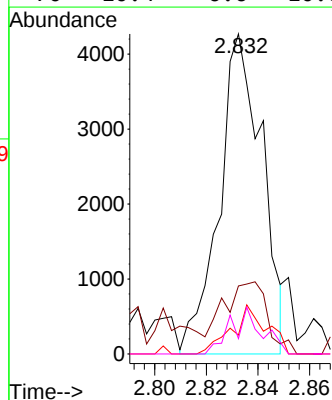
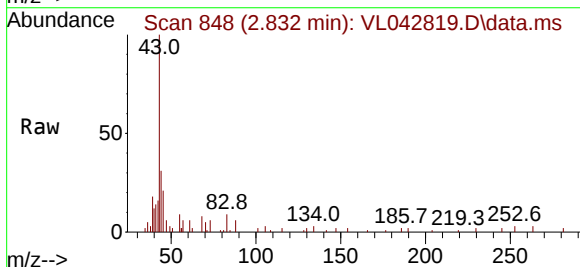
Instrument :
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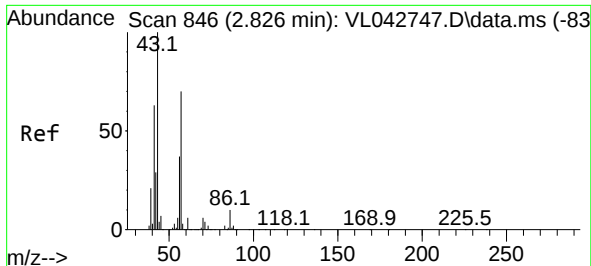
Tgt Ion: 41 Resp: 819160
 Ion Ratio Lower Upper
 41 100
 76 0.0 21.1 31.7#
 39 89.8 68.3 102.5



#25
 Ethyl Acetate
 Concen: 0.110 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.000 min
 Lab File: VL042819.D
 Acq: 04 Aug 2025 23:04

Tgt Ion: 43 Resp: 4921
 Ion Ratio Lower Upper
 43 100
 45 33.2 7.8 11.6#
 61 12.4 6.7 10.1#
 70 10.4 6.6 10.0#

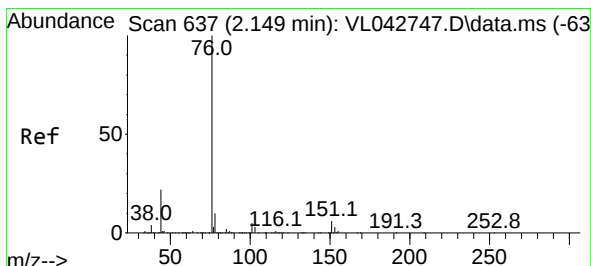
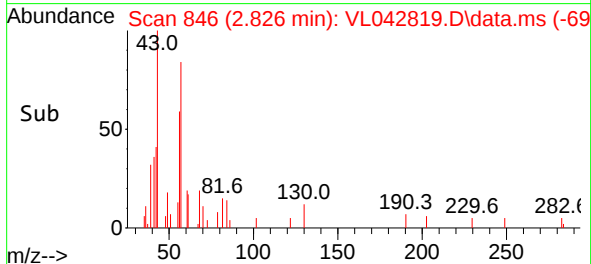
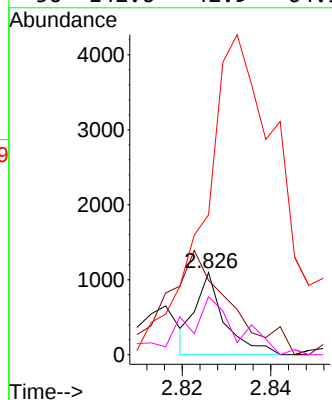
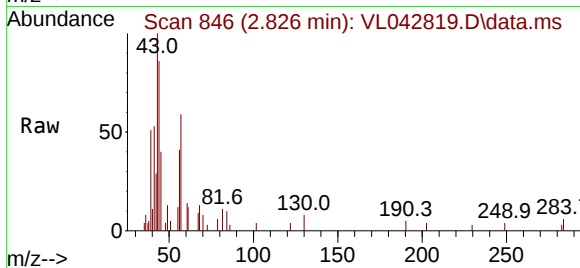




#26
Hexane
Concen: 0.026 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

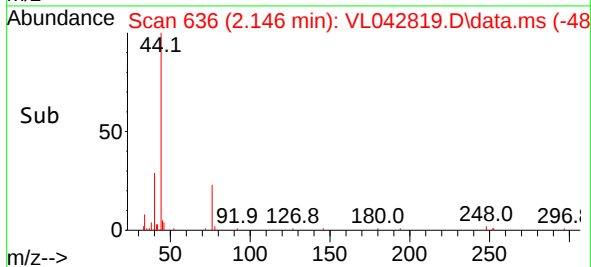
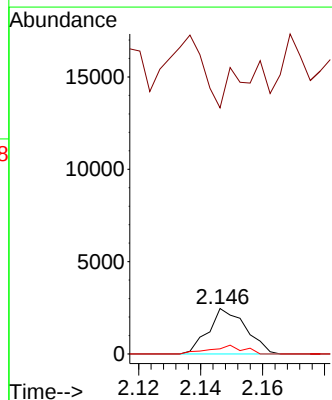
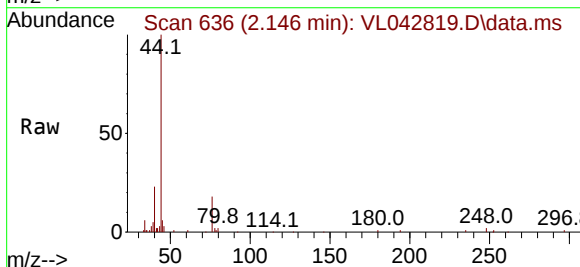
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

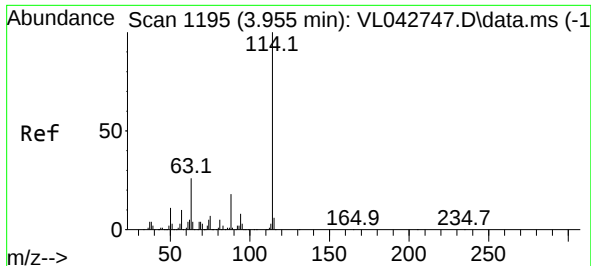
Tgt Ion: 57 Resp: 500
Ion Ratio Lower Upper
57 100
41 427.4 75.4 113.2#
43 1240.8 185.0 277.6#
56 142.6 42.9 64.3#



#27
Carbon Disulfide
Concen: 0.123 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 76 Resp: 2060
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9#
78 16.6 9.9 14.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042819.D

Acq: 04 Aug 2025 23:04

Instrument :

MSVOA_1

ClientSampleId :

WONDER IA-9DL

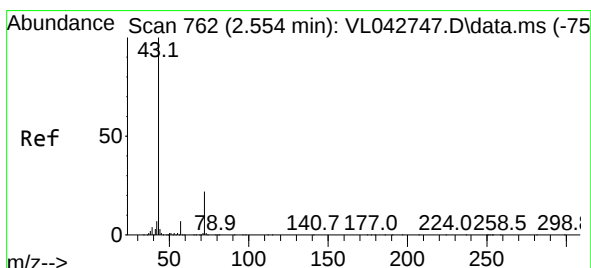
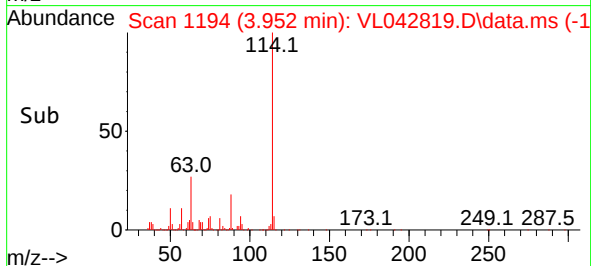
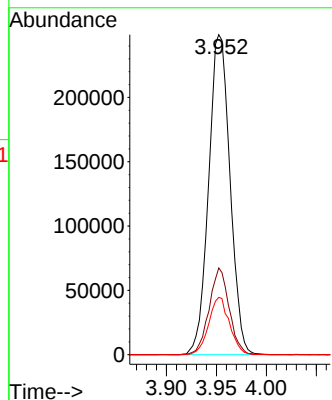
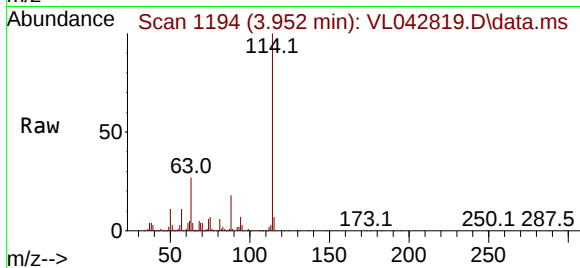
Tgt Ion:114 Resp: 370265

Ion Ratio Lower Upper

114 100

63 25.5 20.5 30.7

88 17.4 14.0 21.0



#34

2-Butanone

Concen: 0.062 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.007 min

Lab File: VL042819.D

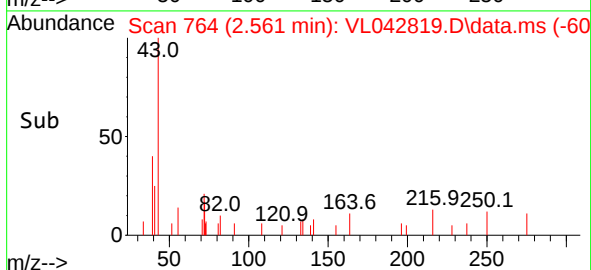
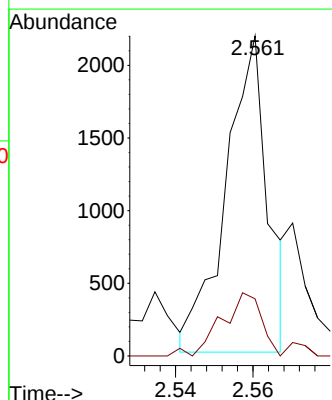
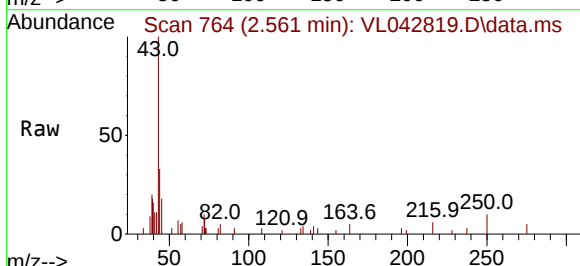
Acq: 04 Aug 2025 23:04

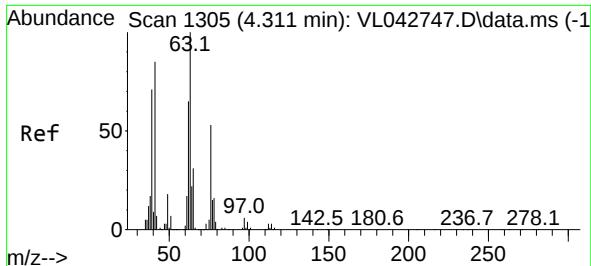
Tgt Ion: 43 Resp: 1637

Ion Ratio Lower Upper

43 100

72 21.1 17.4 26.0





#39

1,2-Dichloropropane

Concen: 7.270 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.359 min

Lab File: VL042819.D

Acq: 04 Aug 2025 23:04

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-9DL

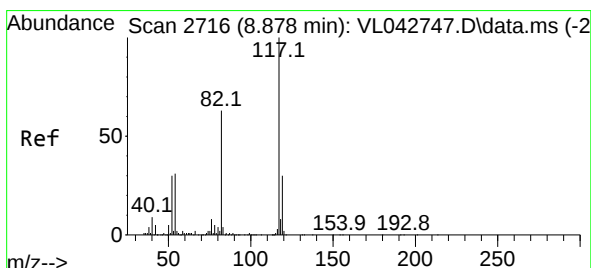
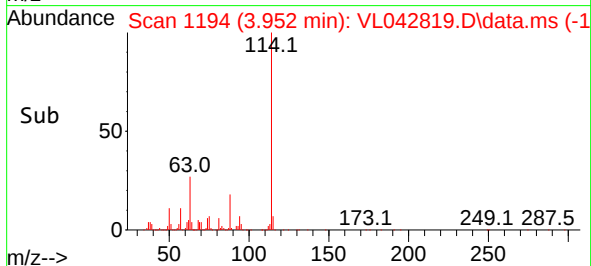
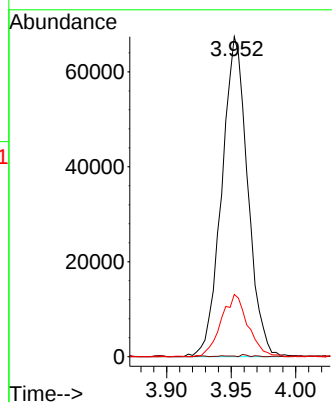
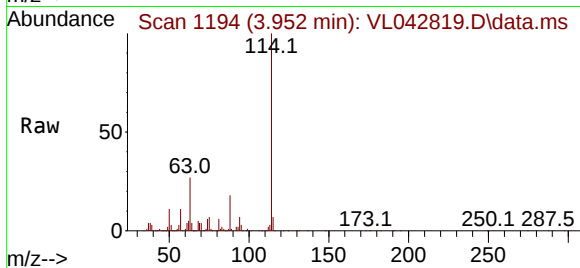
Tgt Ion: 63 Resp: 94166

Ion Ratio Lower Upper

63 100

41 0.2 68.2 102.4#

62 19.3 52.0 78.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.003 min

Lab File: VL042819.D

Acq: 04 Aug 2025 23:04

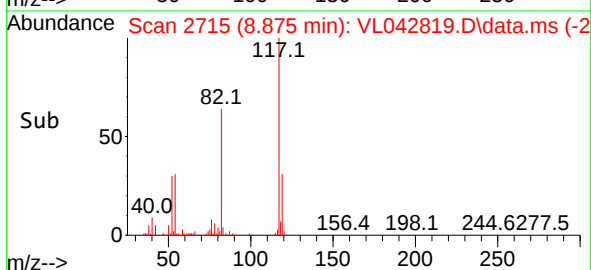
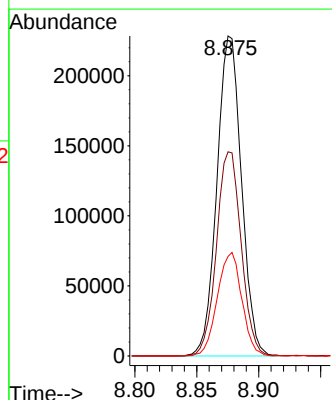
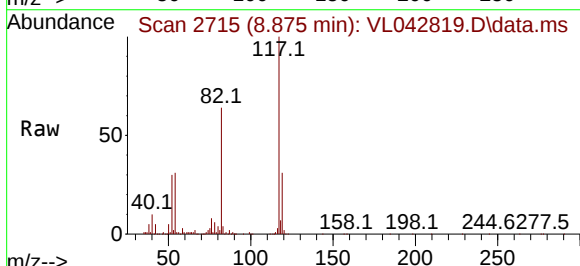
Tgt Ion: 117 Resp: 315446

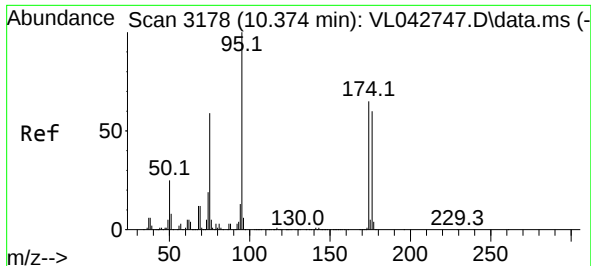
Ion Ratio Lower Upper

117 100

82 64.2 53.3 79.9

119 32.4 25.8 38.6

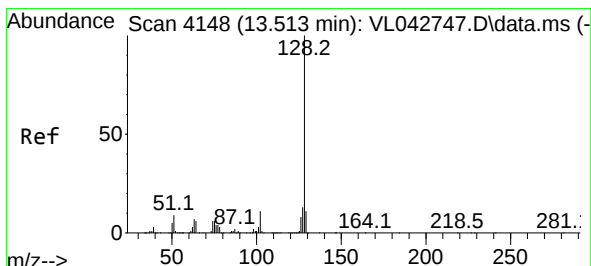
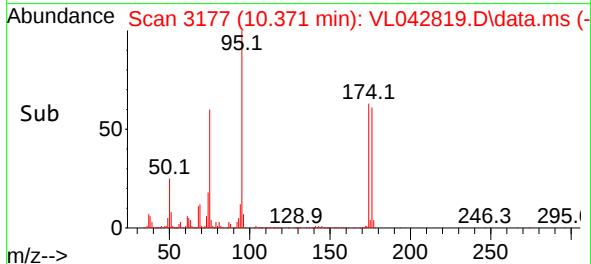
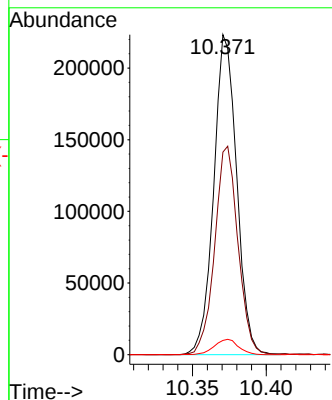
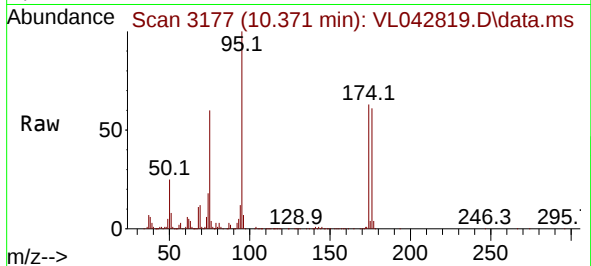




#68
1-Bromo-4-Fluorobenzene
Concen: 9.686 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

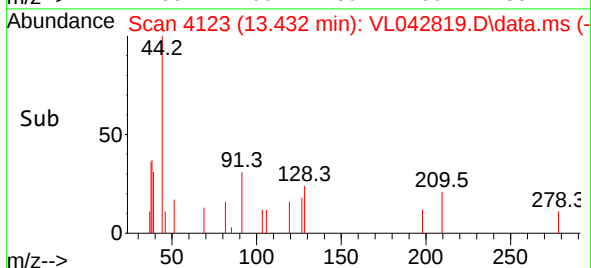
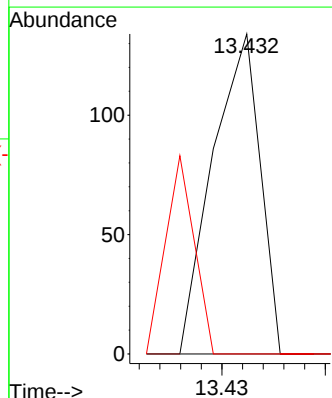
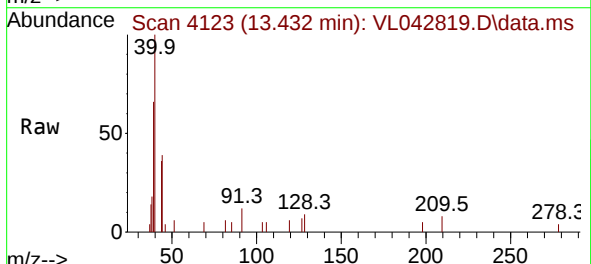
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

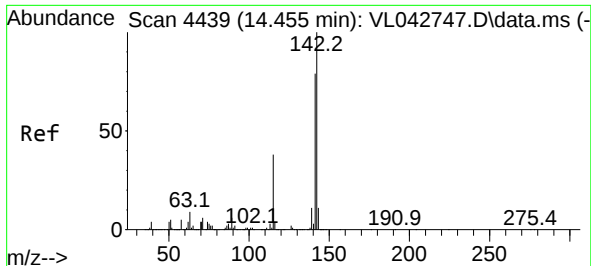
Tgt Ion: 95 Resp: 241976
Ion Ratio Lower Upper
95 100
174 66.3 53.8 80.6
175 5.1 4.0 6.0



#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.432 min Scan# 4123
Delta R.T. -0.081 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion: 128 Resp: 43
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#

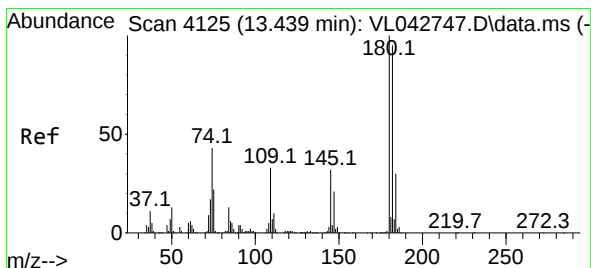
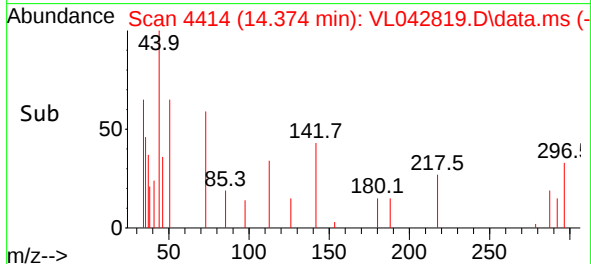
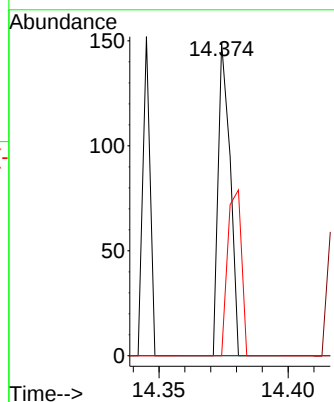
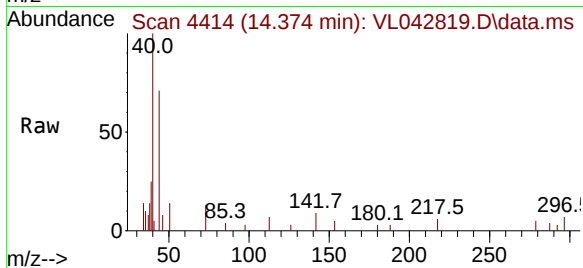




#80
Naphthalene, 2-methyl-
Concen: 1.130 ppbv
RT: 14.374 min Scan# 4414
Delta R.T. -0.081 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9DL

Tgt Ion:142 Resp: 47
Ion Ratio Lower Upper
142 100
141 48.9 65.8 98.8#
115 61.7 31.2 46.8#



#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.445 min Scan# 4127
Delta R.T. 0.007 min
Lab File: VL042819.D
Acq: 04 Aug 2025 23:04

Tgt Ion:180 Resp: 26
Ion Ratio Lower Upper
180 100
182 0.0 76.2 114.2#
184 0.0 24.8 37.2#

