

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042942.D
 Acq On : 18 Sep 2025 12:14
 Operator : SY/MD
 Sample : QC091125 CAN 10060
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 19 01:23:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 2025
 Response via : Initial Calibration

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

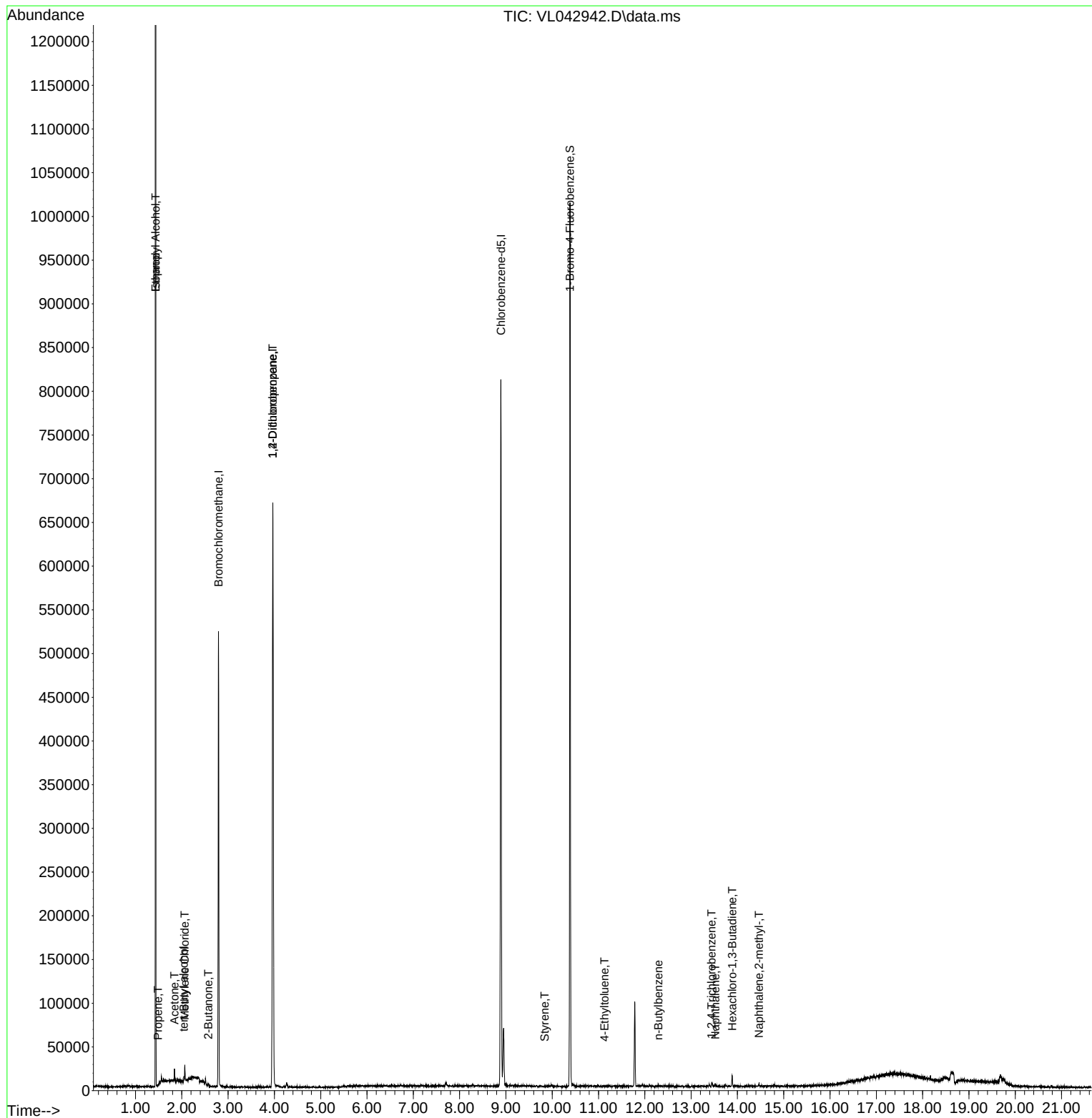
Internal Standards						
1) Bromochloromethane	2.793	49	151587	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	376783	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	311904	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	236215	9.689	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.900%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	267	0.032	ppbv #	1
13) Ethanol	1.434	45	32220	37.957	ppbv	90
15) Acetone	1.842	43	5155	0.277	ppbv #	77
17) tert-Butyl alcohol	2.046	59	1379	0.077	ppbv #	60
19) Isopropyl Alcohol	1.434	45	32220	3.228	ppbv #	93
20) Methylene Chloride	2.065	84	2607	0.322	ppbv #	77
34) 2-Butanone	2.573	43	1470	0.060	ppbv #	86
39) 1,2-Dichloropropane	3.965	63	100763	7.586	ppbv #	22
61) Styrene	9.840	104	60	0.546	ppbv #	47
70) n-Butylbenzene	12.290	91	429	0.308	ppbv #	63
72) 4-Ethyltoluene	11.131	105	103	0.363	ppbv #	56
78) Hexachloro-1,3-Butadiene	13.885	225	1219	0.076	ppbv	91
79) Naphthalene	13.523	128	683	0.379	ppbv #	86
80) Naphthalene,2-methyl-	14.468	142	1023	0.833	ppbv #	75
81) 1,2,4-Trichlorobenzene	13.442	180	435	0.446	ppbv #	14

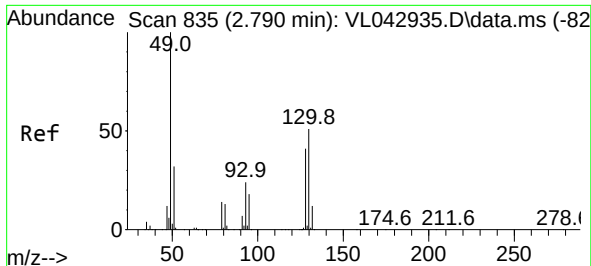
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 19 01:23:58 2025
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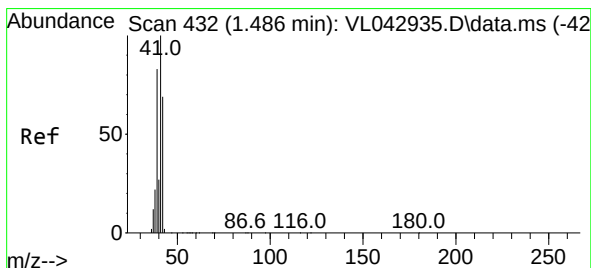
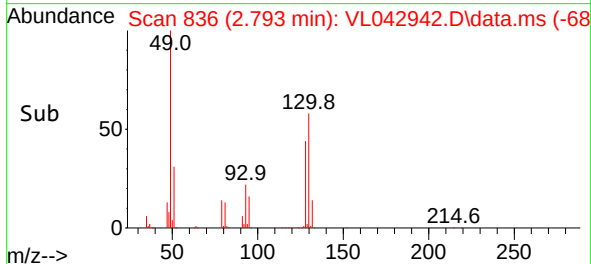
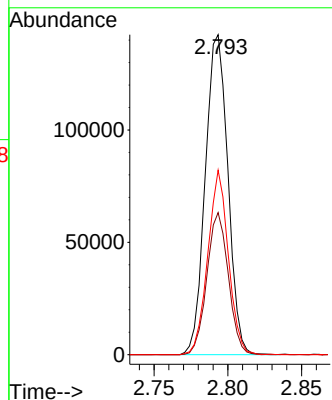
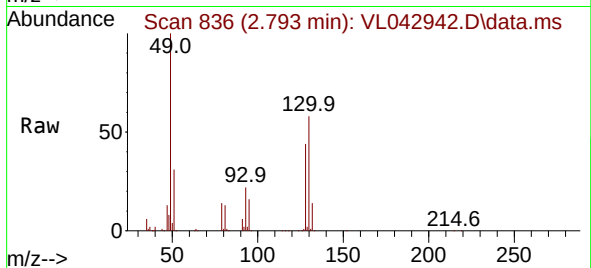




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

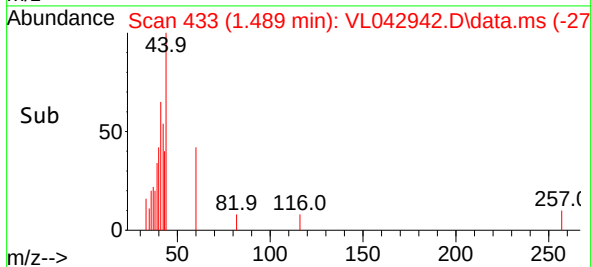
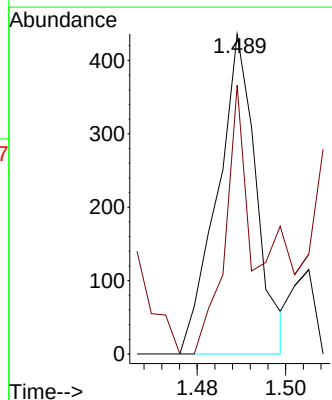
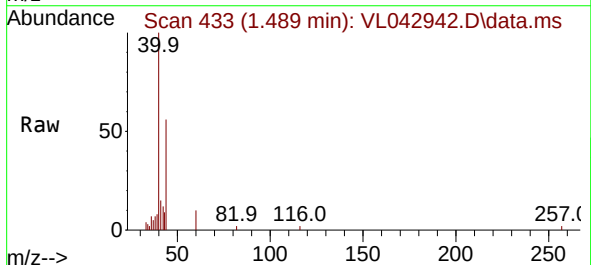
Instrument :
MSVOA_L
ClientSampleId :

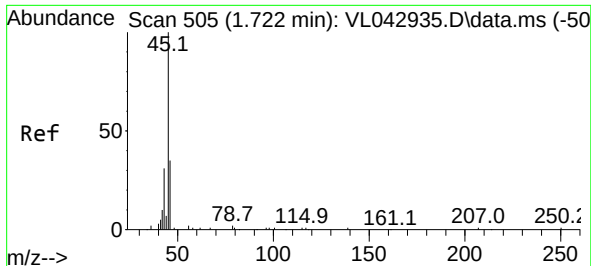
Tgt Ion: 49 Resp: 151587
Ion Ratio Lower Upper
49 100
128 42.3 21.1 63.4
130 52.4 26.4 79.2



#9
Propene
Concen: 0.032 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.003 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

Tgt Ion: 41 Resp: 267
Ion Ratio Lower Upper
41 100
42 149.1 55.0 82.4#





#13

Ethanol

Concen: 37.957 ppbv

RT: 1.434 min Scan# 416

Delta R.T. -0.288 min

Lab File: VL042942.D

Acq: 18 Sep 2025 12:14

Instrument :

MSVOA_L

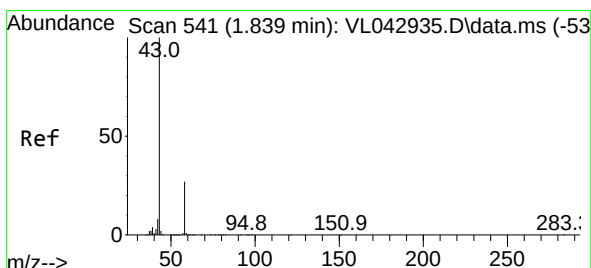
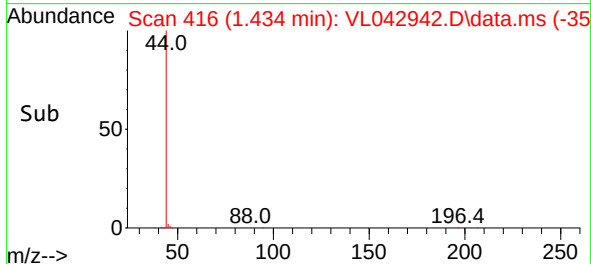
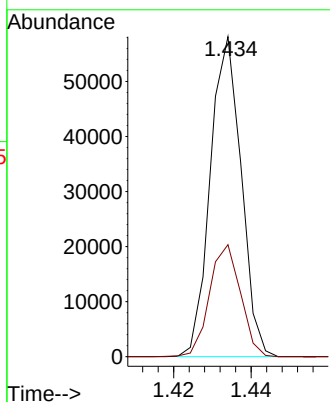
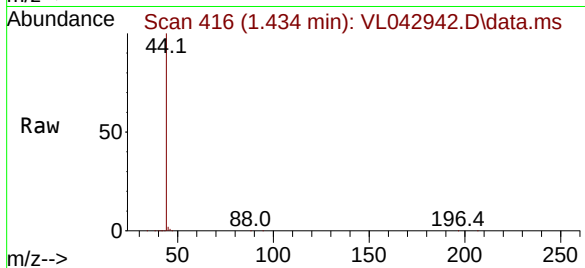
ClientSampleId :

Tgt Ion: 45 Resp: 32220

Ion Ratio Lower Upper

45 100

46 35.0 16.5 66.1



#15

Acetone

Concen: 0.277 ppbv

RT: 1.842 min Scan# 542

Delta R.T. 0.003 min

Lab File: VL042942.D

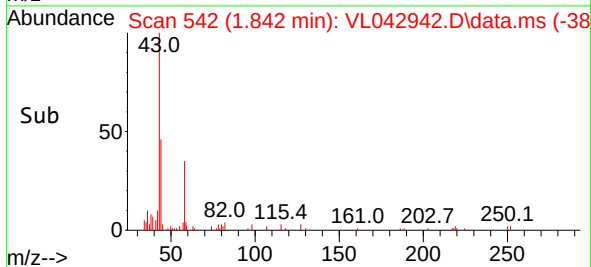
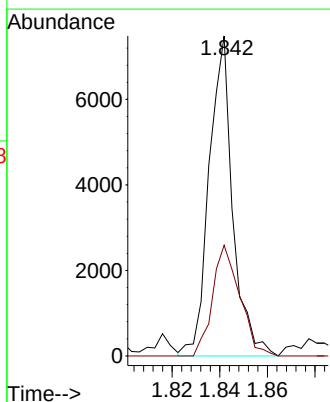
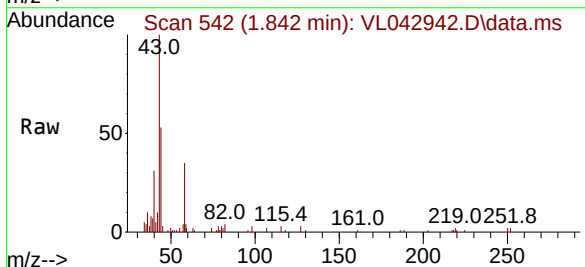
Acq: 18 Sep 2025 12:14

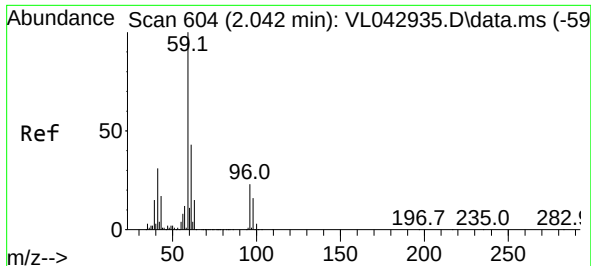
Tgt Ion: 43 Resp: 5155

Ion Ratio Lower Upper

43 100

58 39.9 22.2 33.2#





#17

tert-Butyl alcohol

Concen: 0.077 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042942.D

Acq: 18 Sep 2025 12:14

Instrument :

MSVOA_L

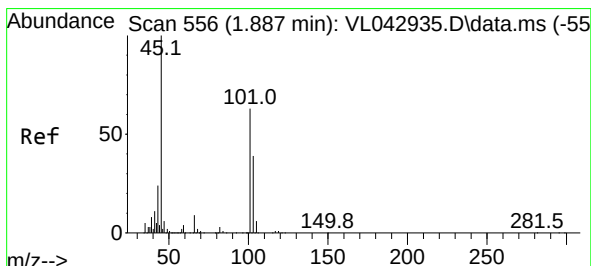
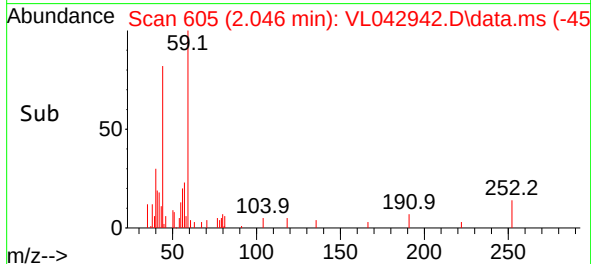
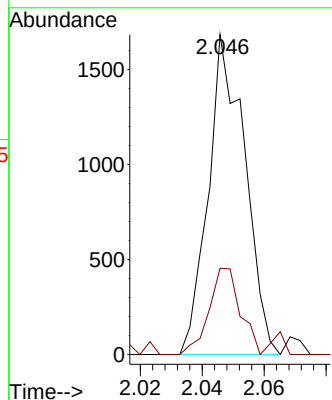
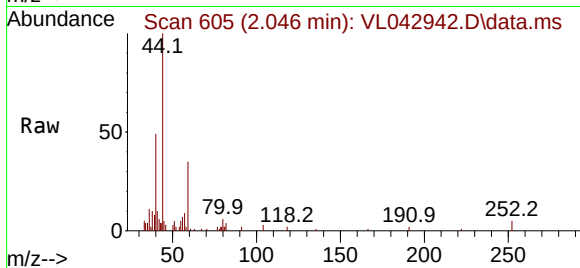
ClientSampleId :

Tgt Ion: 59 Resp: 1379

Ion Ratio Lower Upper

59 100

57 26.7 9.0 13.6#



#19

Isopropyl Alcohol

Concen: 3.228 ppbv

RT: 1.434 min Scan# 416

Delta R.T. -0.453 min

Lab File: VL042942.D

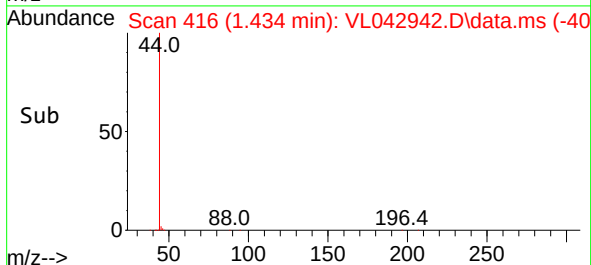
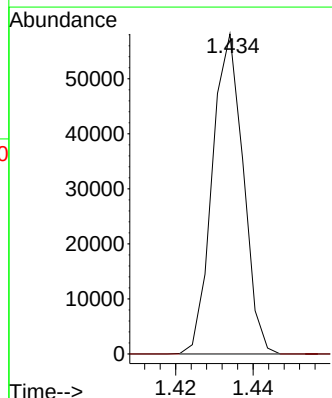
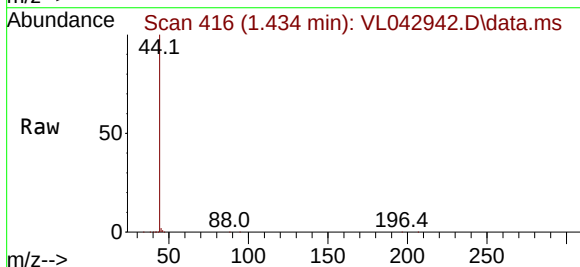
Acq: 18 Sep 2025 12:14

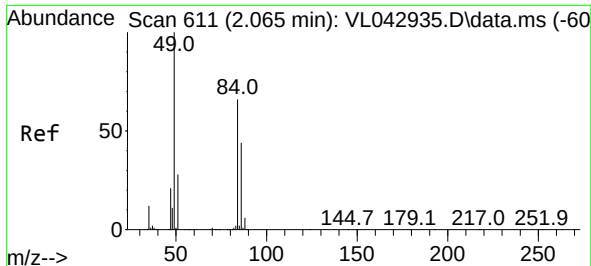
Tgt Ion: 45 Resp: 32220

Ion Ratio Lower Upper

45 100

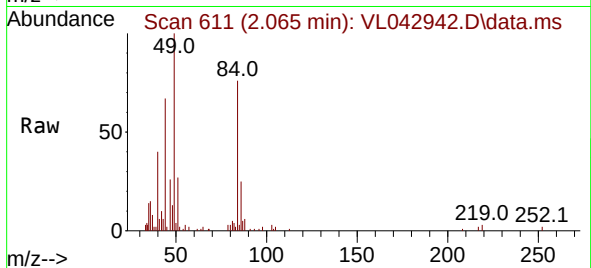
58 0.0 2.0 3.0#



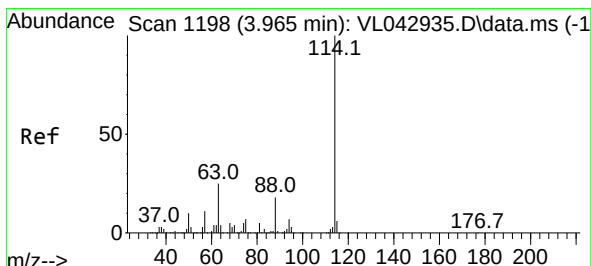
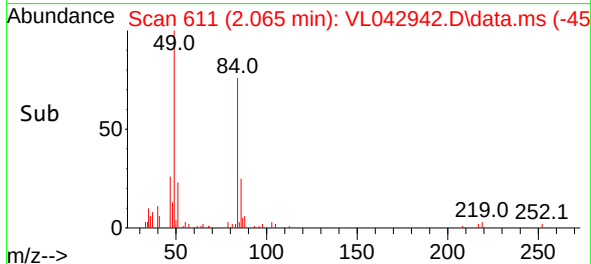
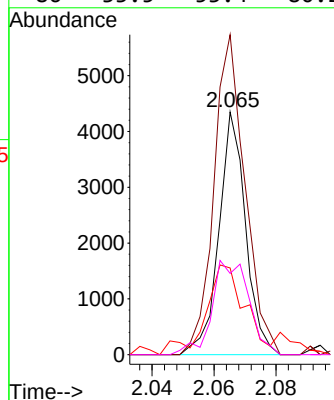


#20
Methylene Chloride
Concen: 0.322 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

Instrument :
MSVOA_L
ClientSampleId :

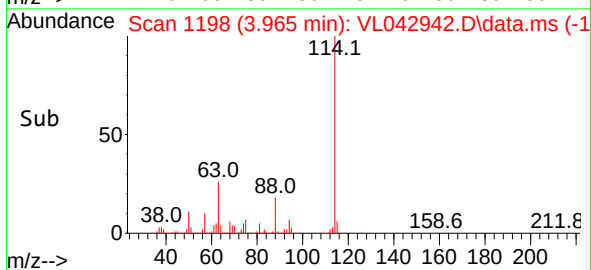
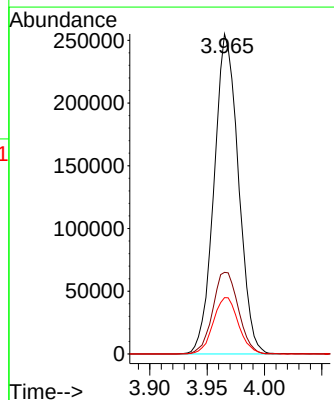
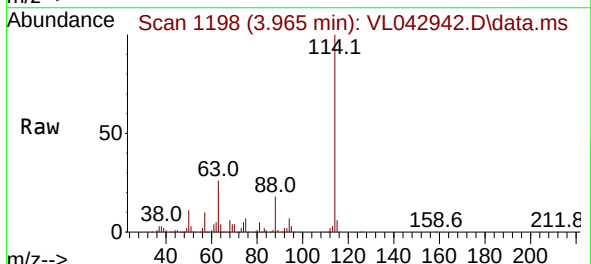


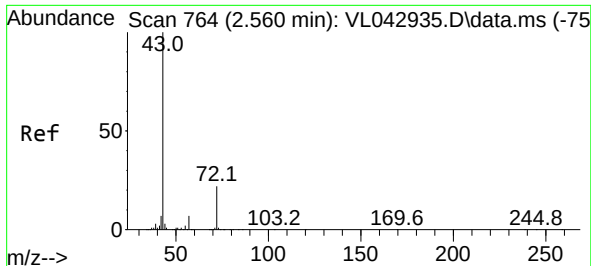
Tgt Ion:	84	Resp:	2607
Ion	Ratio	Lower	Upper
84	100		
49	131.9	121.8	182.6
51	30.7	35.6	53.4#
86	33.5	53.4	80.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.000 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

Tgt Ion:	114	Resp:	376783
Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.1	31.7
88	18.2	14.6	22.0

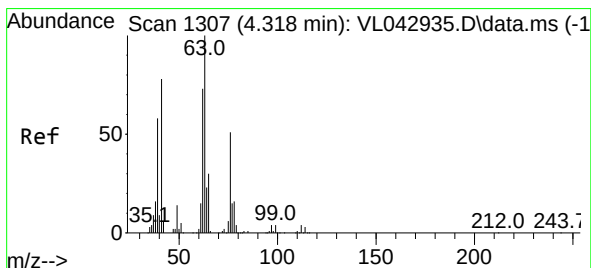
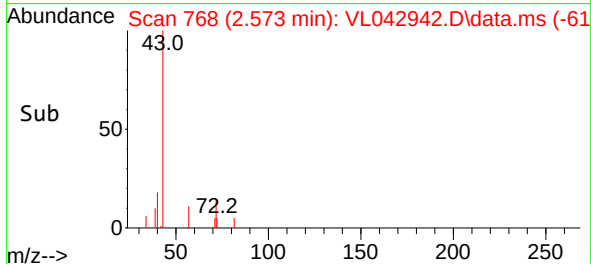
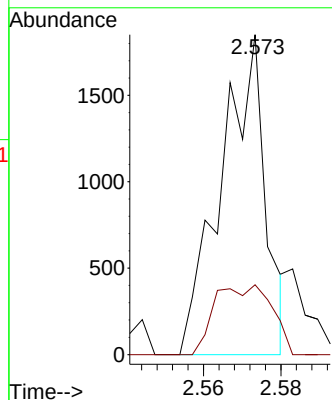
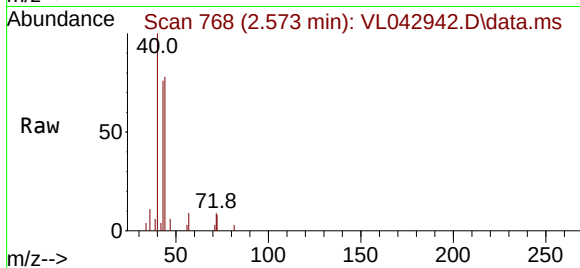




#34
2-Butanone
Concen: 0.060 ppbv
RT: 2.573 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

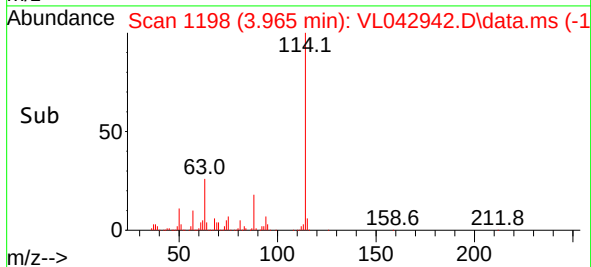
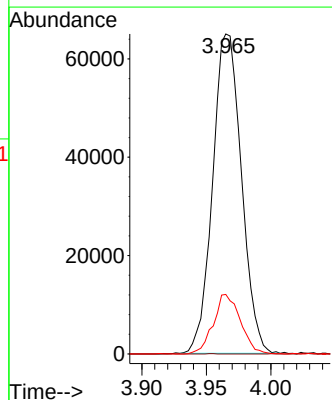
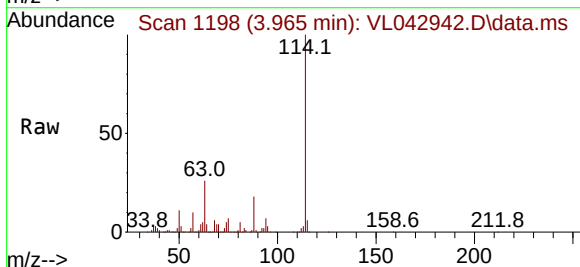
Instrument :
MSVOA_L
ClientSampleId :

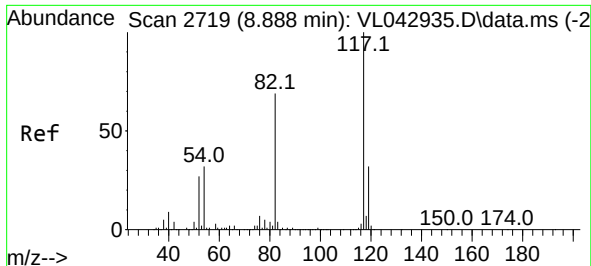
Tgt Ion: 43 Resp: 1470
Ion Ratio Lower Upper
43 100
72 28.1 17.2 25.8#



#39
1,2-Dichloropropane
Concen: 7.586 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.353 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

Tgt Ion: 63 Resp: 100763
Ion Ratio Lower Upper
63 100
41 0.0 62.7 94.1#
62 18.6 58.4 87.6#

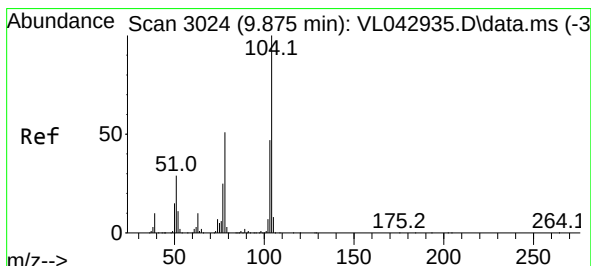
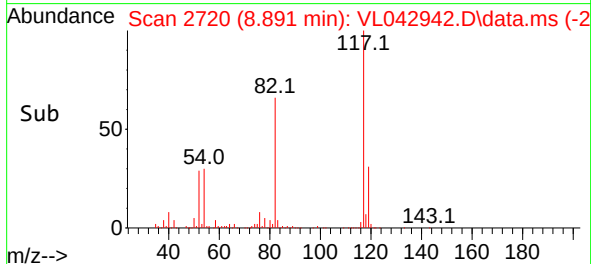
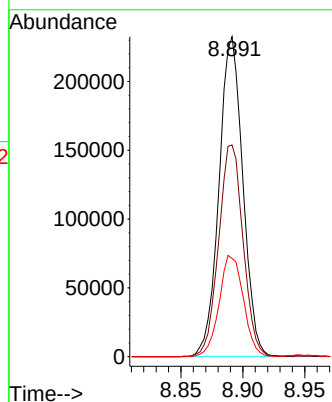
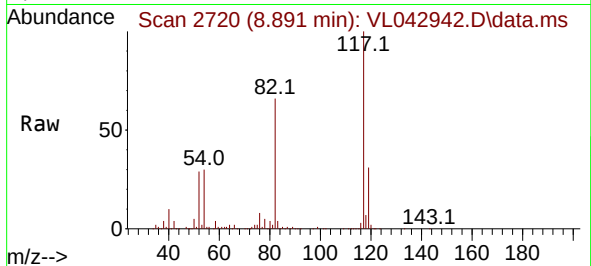




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

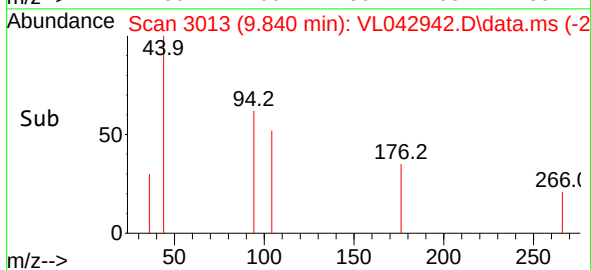
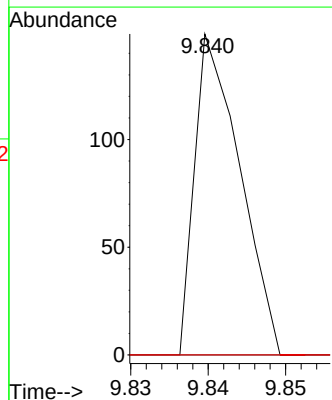
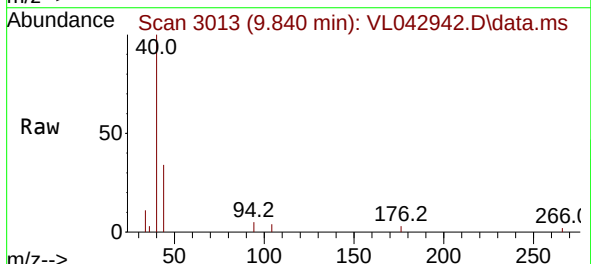
Instrument :
MSVOA_L
ClientSampleId :

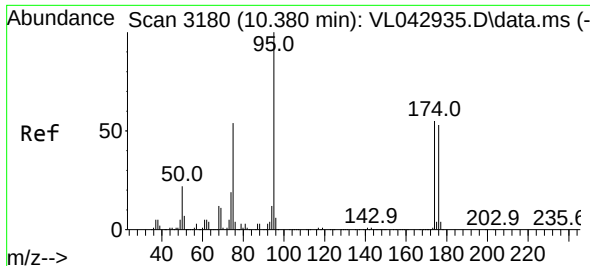
Tgt Ion:117 Resp: 311904
Ion Ratio Lower Upper
117 100
82 68.1 56.1 84.1
119 32.3 25.8 38.8



#61
Styrene
Concen: 0.546 ppbv
RT: 9.840 min Scan# 3013
Delta R.T. -0.035 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

Tgt Ion:104 Resp: 60
Ion Ratio Lower Upper
104 100
78 0.0 40.2 60.2#
103 66.7 36.8 55.2#

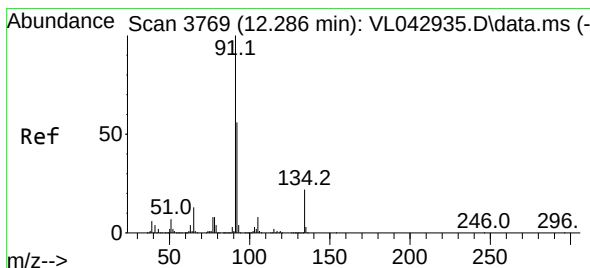
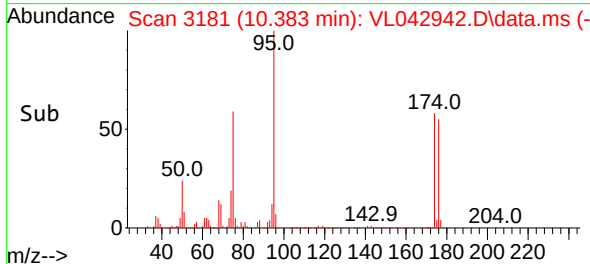
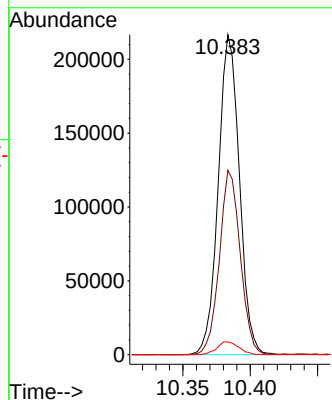
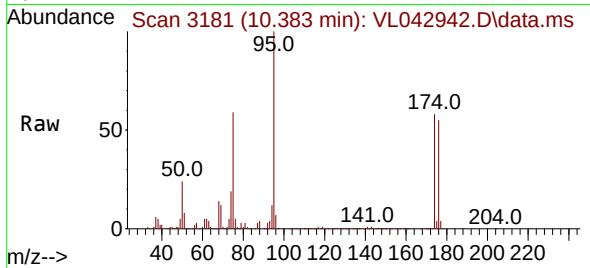




#68
1-Bromo-4-Fluorobenzene
Concen: 9.689 ppbv
RT: 10.383 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

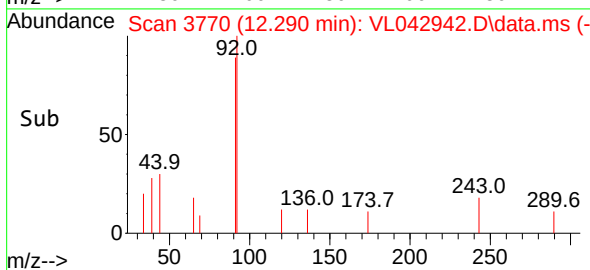
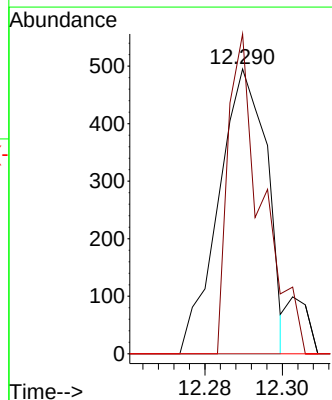
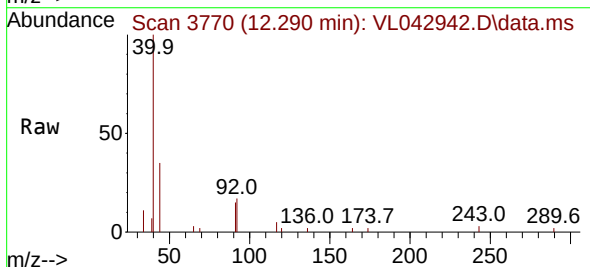
Instrument :
MSVOA_L
ClientSampleId :

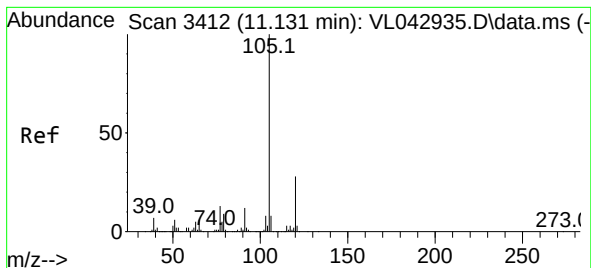
Tgt Ion: 95 Resp: 236215
Ion Ratio Lower Upper
95 100
174 57.0 44.9 67.3
175 4.2 3.3 4.9



#70
n-Butylbenzene
Concen: 0.308 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.004 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

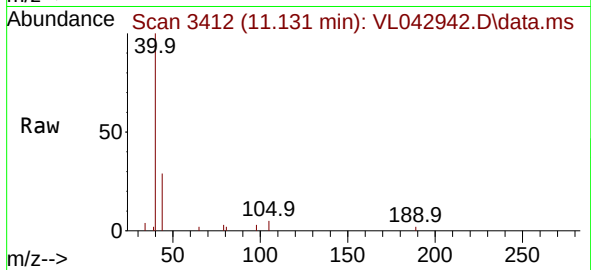
Tgt Ion: 91 Resp: 429
Ion Ratio Lower Upper
91 100
92 78.6 43.8 65.8#
134 0.0 17.3 25.9#



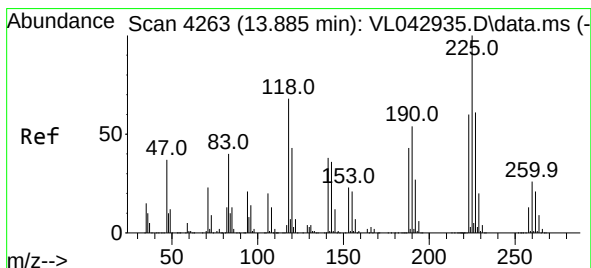
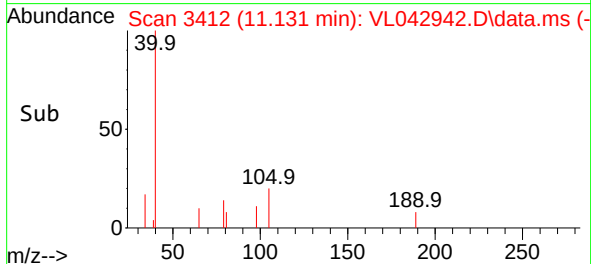
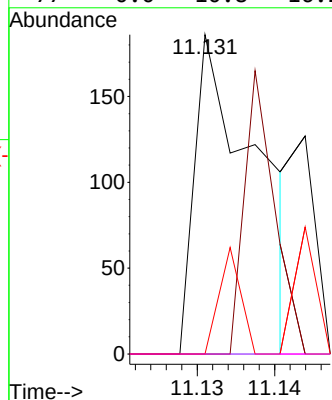


#72
4-Ethyltoluene
Concen: 0.363 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.000 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

Instrument :
MSVOA_L
ClientSampleId :

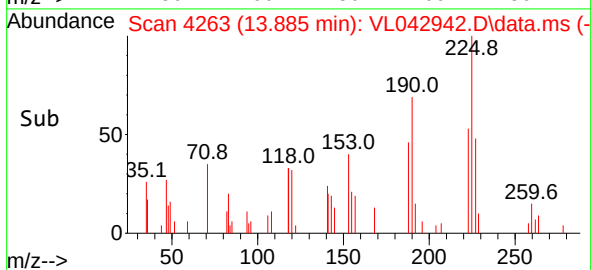
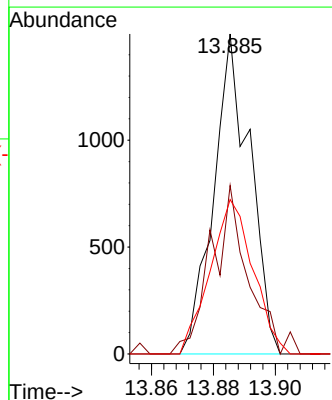
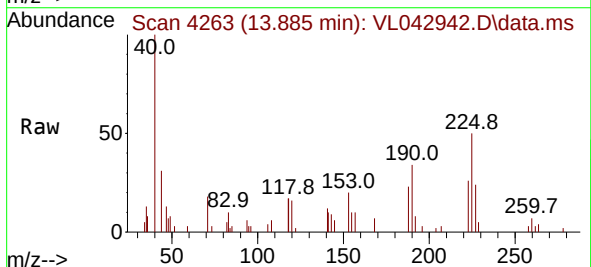


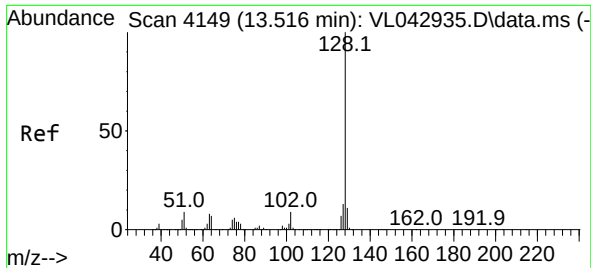
Tgt Ion:	105	Resp:	103
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.1	34.7#
91	0.0	10.4	15.6#
77	0.0	10.8	16.2#



#78
Hexachloro-1,3-Butadiene
Concen: 0.076 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.000 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

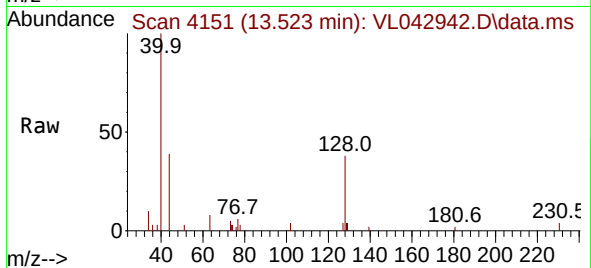
Tgt Ion:	225	Resp:	1219
Ion	Ratio	Lower	Upper
225	100		
223	54.9	50.6	76.0
227	57.1	50.5	75.7



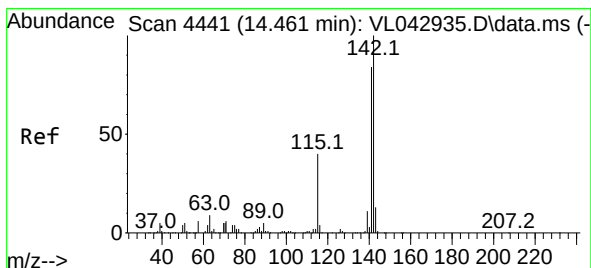
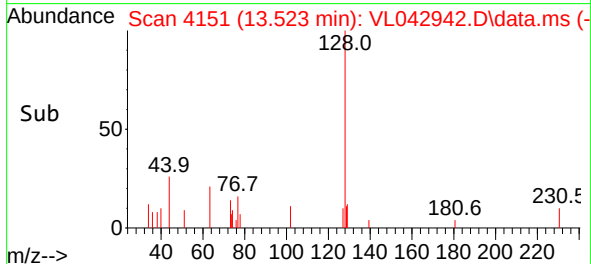
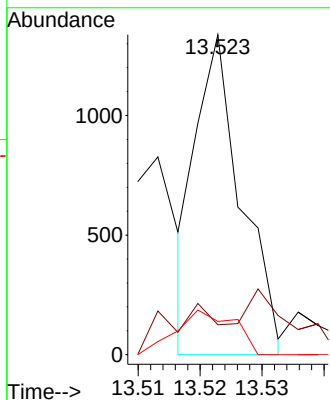


#79
Naphthalene
Concen: 0.379 ppbv
RT: 13.523 min Scan# 4149
Delta R.T. 0.007 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

Instrument :
MSVOA_L
ClientSampleId :

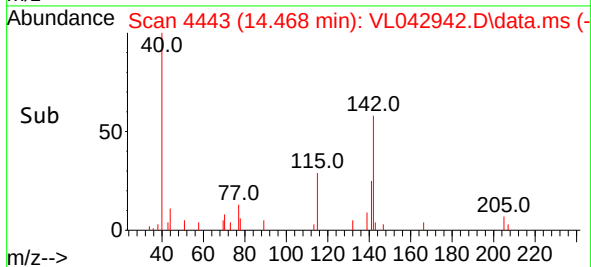
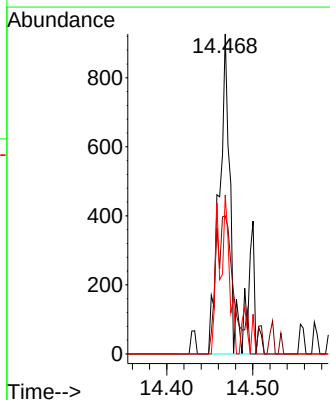
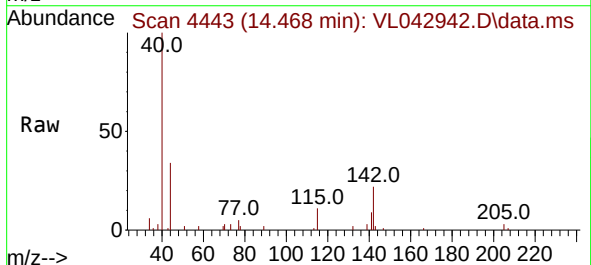


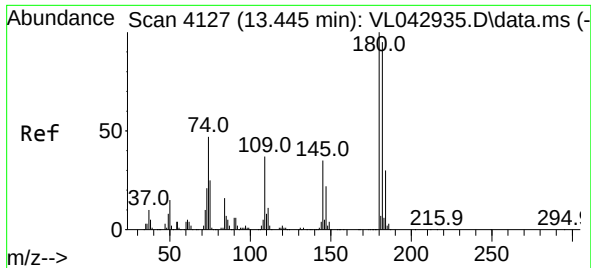
Tgt Ion:128 Resp: 683
Ion Ratio Lower Upper
128 100
127 2.4 10.3 15.5#
129 10.9 8.7 13.1



#80
Naphthalene,2-methyl-
Concen: 0.833 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.007 min
Lab File: VL042942.D
Acq: 18 Sep 2025 12:14

Tgt Ion:142 Resp: 1023
Ion Ratio Lower Upper
142 100
141 55.0 67.0 100.6#
115 47.3 32.0 48.0





#81

1,2,4-Trichlorobenzene

Concen: 0.446 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.003 min

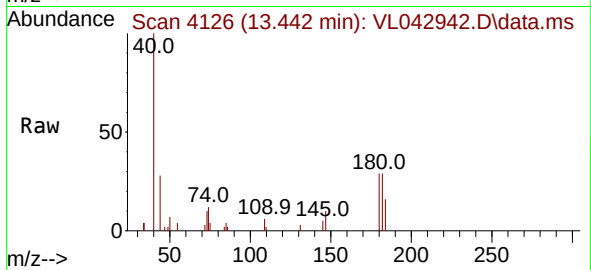
Lab File: VL042942.D

Acq: 18 Sep 2025 12:14

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:180 Resp: 435

Ion Ratio Lower Upper

180 100

182 175.6 75.5 113.3#

184 81.8 24.6 37.0#

