

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
 Data File : VL041568.D
 Acq On : 21 Aug 2024 15:34
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 22 01:12:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 22 01:05:17 2024
 Response via : Initial Calibration

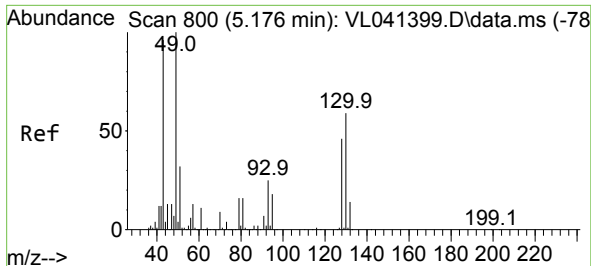
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.198	49	1010362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2687632	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2438224	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1883752	10.039	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.400%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.880	85	8526	0.049	ppbv	91
3) Chlorodifluoromethane	2.697	51	8792	0.073	ppbv	94
4) Chloromethane	2.835	50	5644	0.088	ppbv	97
5) Vinyl Chloride	2.938	62	2182	0.035	ppbv	# 77
7) Chloroethane	3.214	64	959	0.044	ppbv	# 73
8) Dichlorotetrafluoroethane	2.880	85	8526	0.055	ppbv	93
9) Propene	2.722	41	24169	0.437	ppbv	86
11) Trichlorofluoromethane	3.574	101	5241	0.034	ppbv	95
13) Ethanol	3.272	45	2546	0.516	ppbv	# 41
14) Bromoethene	3.385	108	2352	0.054	ppbv	# 87
15) Acetone	3.504	43	47391	0.413	ppbv	98
17) tert-Butyl alcohol	3.918	59	4270	0.041	ppbv	# 72
18) 1,1-Dichloroethene	3.893	96	1480	0.031	ppbv	86
20) Methylene Chloride	3.947	84	16167	0.378	ppbv	96
21) Allyl Chloride	4.008	41	3073	0.041	ppbv	# 70
22) trans-1,2-Dichloroethene	4.462	96	1506	0.032	ppbv	# 74
23) Vinyl Acetate	4.639	43	2917	0.033	ppbv	# 76
24) 1,1-Dichloroethane	4.574	63	5371	0.052	ppbv	# 89
25) Ethyl Acetate	5.221	43	18814	0.082	ppbv	# 91
26) Hexane	5.221	57	16858	0.178	ppbv	# 53
28) Methyl tert-Butyl Ether	4.613	73	2217	0.037	ppbv	# 52
31) cis-1,2-Dichloroethene	5.082	61	4107	0.044	ppbv	# 79
32) 1,1,1-Trichloroethane	6.008	97	5797	0.039	ppbv	# 76
34) 2-Butanone	4.822	43	13499	0.104	ppbv	94
35) Carbon Tetrachloride	6.503	117	5233	0.035	ppbv	# 55
36) Benzene	6.372	78	6390	0.033	ppbv	97
38) Trichloroethene	7.294	130	3242	0.036	ppbv	# 70
39) 1,2-Dichloropropane	6.655	63	672837	8.949	ppbv	# 25
52) Tetrachloroethene	10.613	164	46783	0.617	ppbv	96

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

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QLast Update : Thu Aug 22 01:05:17 2024
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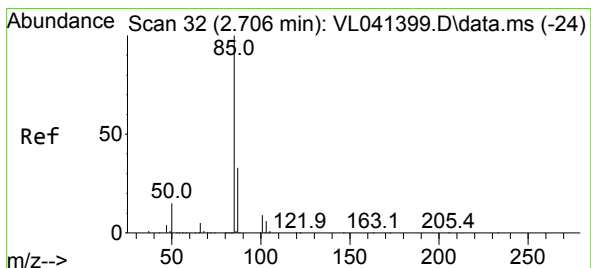
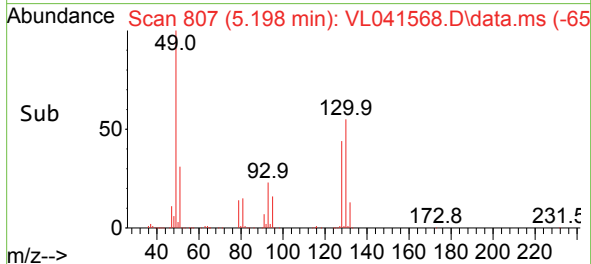
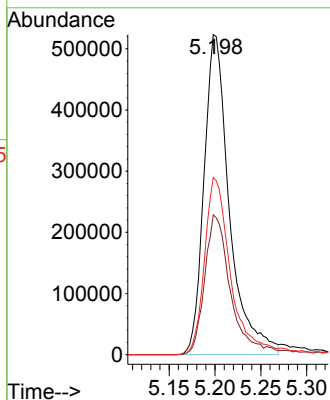
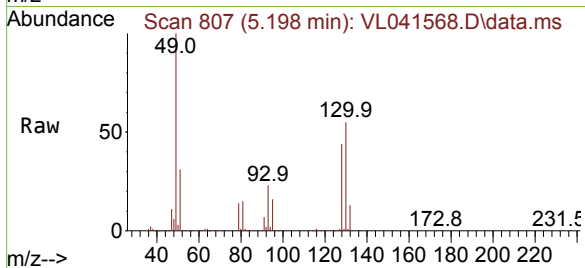




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

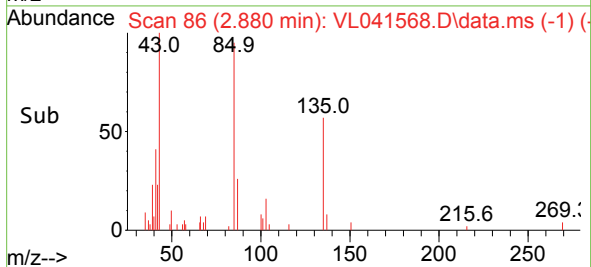
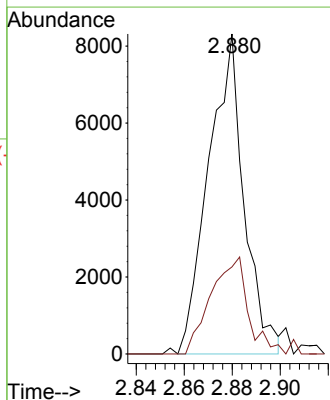
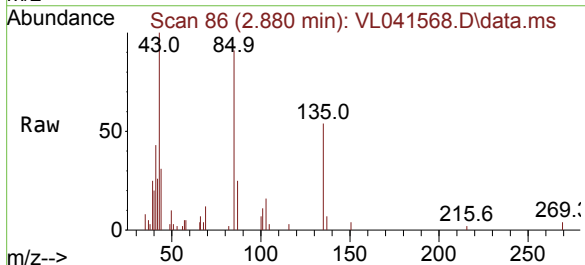
Instrument :
MSVOA_L
ClientSampleId :

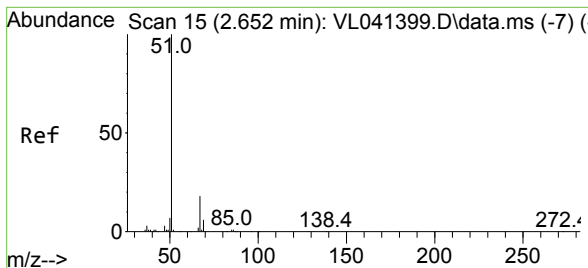
Tgt Ion: 49 Resp: 1010362
Ion Ratio Lower Upper
49 100
128 46.8 23.8 71.4
130 59.5 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 2.880 min Scan# 86
Delta R.T. 0.138 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

Tgt Ion: 85 Resp: 8526
Ion Ratio Lower Upper
85 100
87 27.2 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.073 ppbv

RT: 2.697 min Scan# 29

Delta R.T. 0.010 min

Lab File: VL041568.D

Acq: 21 Aug 2024 15:34

Instrument :

MSVOA_L

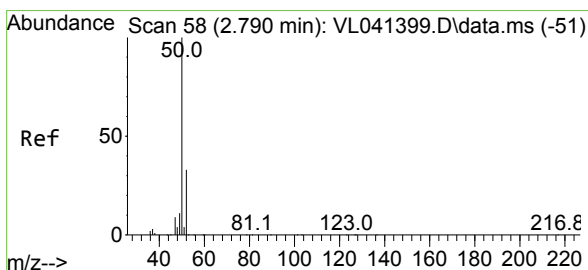
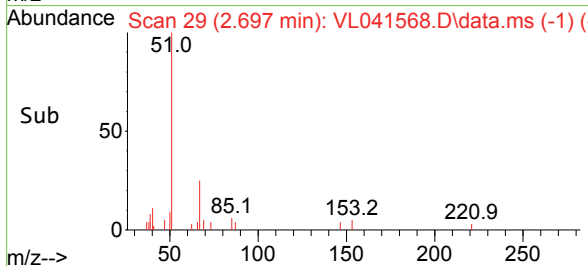
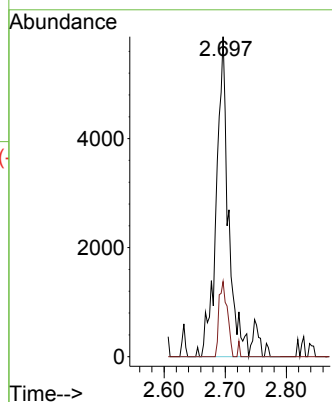
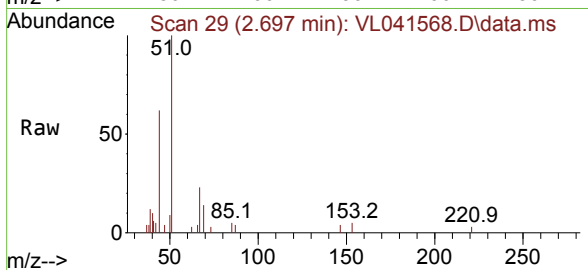
ClientSampleId :

Tgt Ion: 51 Resp: 8792

Ion Ratio Lower Upper

51 100

67 15.4 14.5 21.7



#4

Chloromethane

Concen: 0.088 ppbv

RT: 2.835 min Scan# 72

Delta R.T. 0.010 min

Lab File: VL041568.D

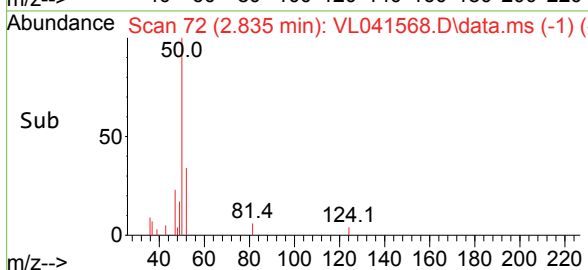
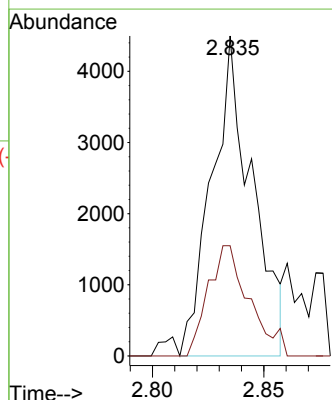
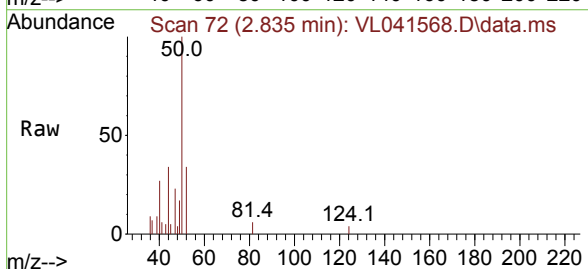
Acq: 21 Aug 2024 15:34

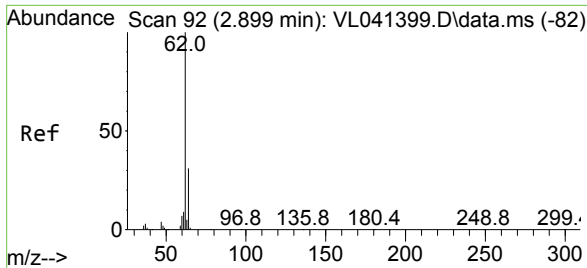
Tgt Ion: 50 Resp: 5644

Ion Ratio Lower Upper

50 100

52 34.5 26.1 39.1

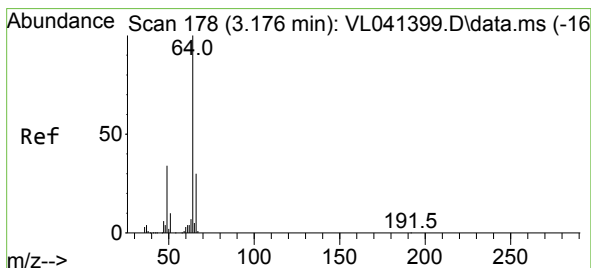
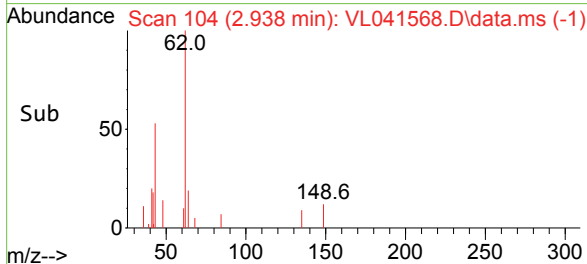
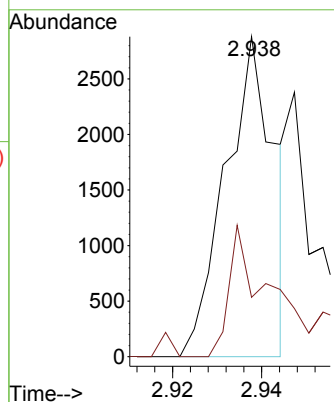
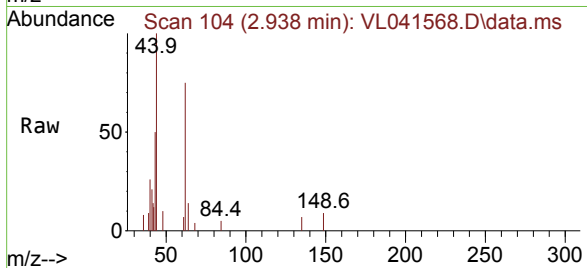




#5
Vinyl Chloride
Concen: 0.035 ppbv
RT: 2.938 min Scan# 104
Delta R.T. 0.006 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

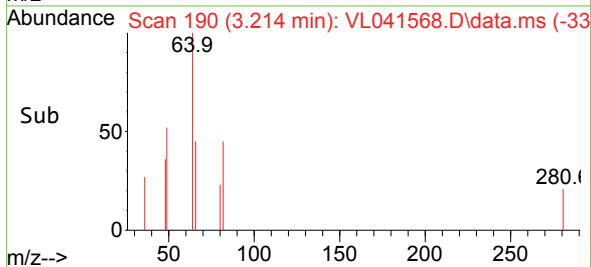
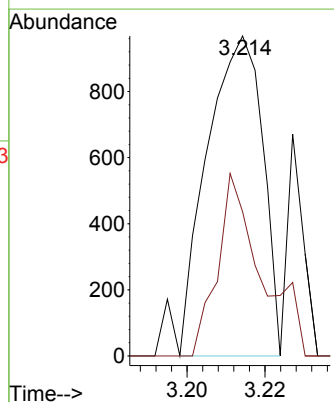
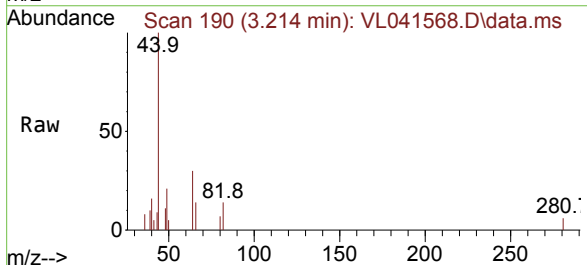
Instrument :
MSVOA_L
ClientSampleId :

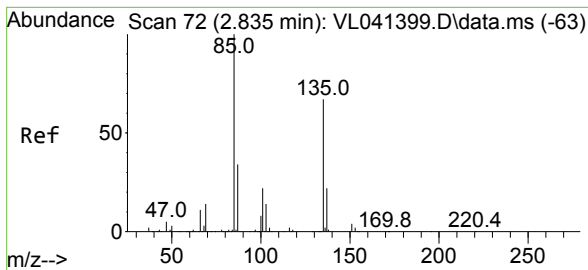
Tgt Ion: 62 Resp: 2182
Ion Ratio Lower Upper
62 100
64 18.6 25.0 37.4#



#7
Chloroethane
Concen: 0.044 ppbv
RT: 3.214 min Scan# 190
Delta R.T. 0.006 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

Tgt Ion: 64 Resp: 959
Ion Ratio Lower Upper
64 100
66 45.0 24.2 36.2#

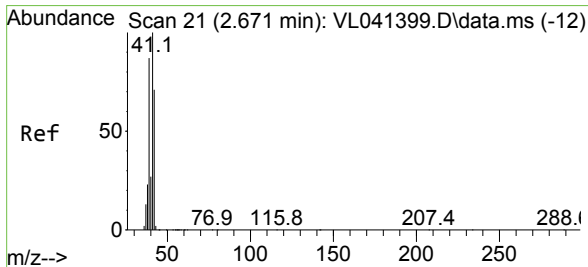
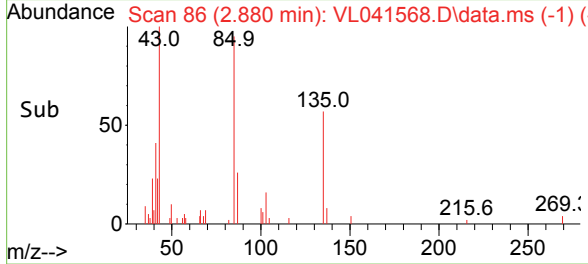
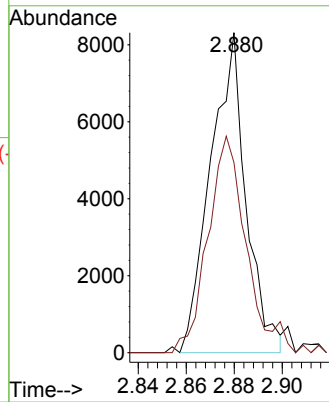
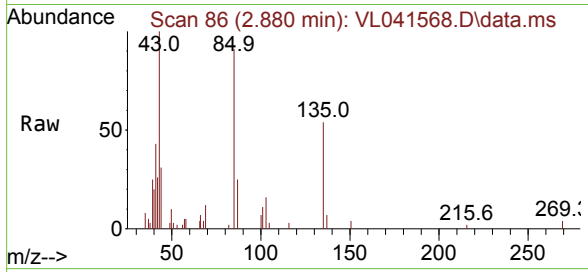




#8
Dichlorotetrafluoroethane
Concen: 0.055 ppbv
RT: 2.880 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

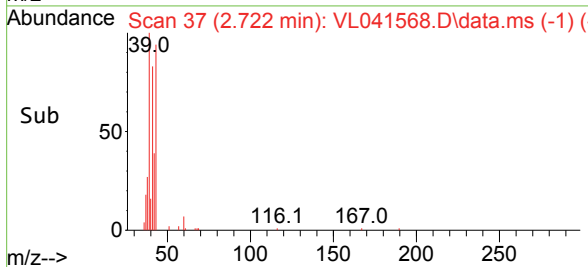
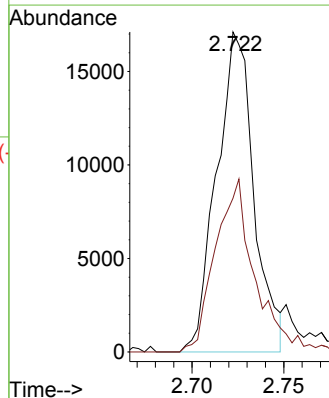
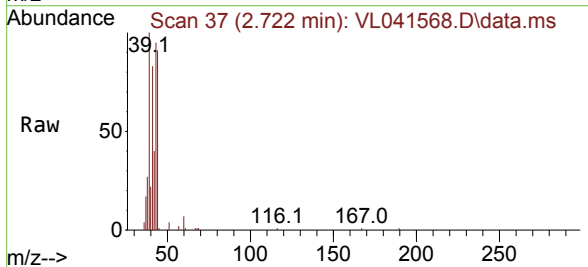
Instrument :
MSVOA_L
ClientSampleId :

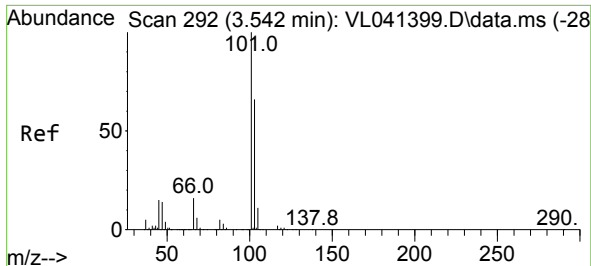
Tgt Ion: 85 Resp: 8526
Ion Ratio Lower Upper
85 100
135 74.7 55.4 83.0



#9
Propene
Concen: 0.437 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.016 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

Tgt Ion: 41 Resp: 24169
Ion Ratio Lower Upper
41 100
42 58.2 55.9 83.9

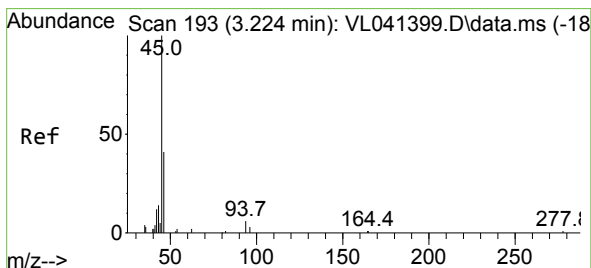
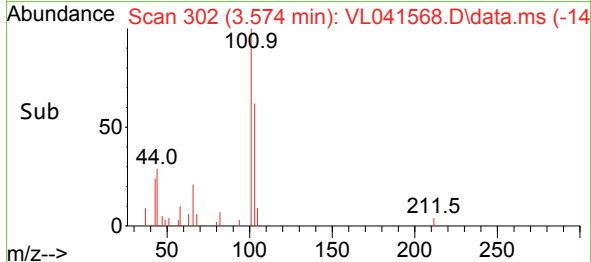
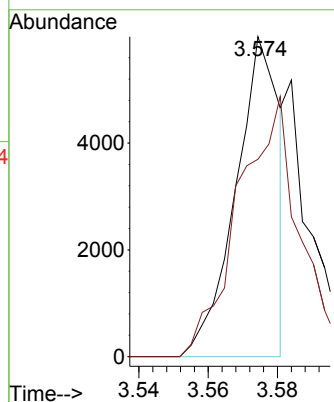
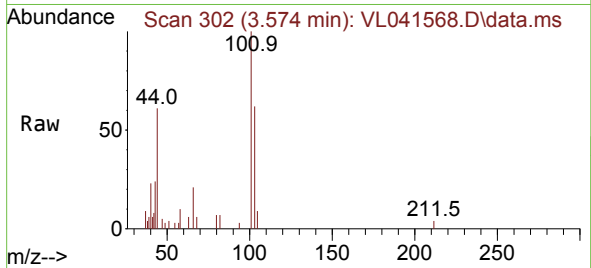




#11
Trichlorofluoromethane
Concen: 0.034 ppbv
RT: 3.574 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

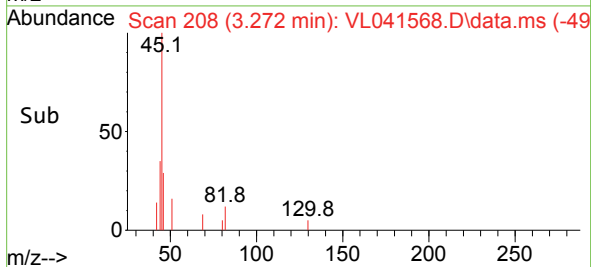
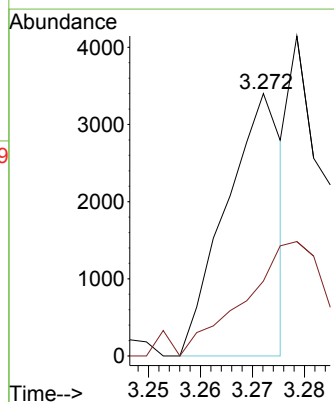
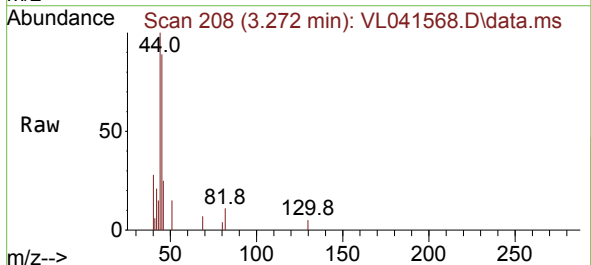
Instrument :
MSVOA_L
ClientSampleId :

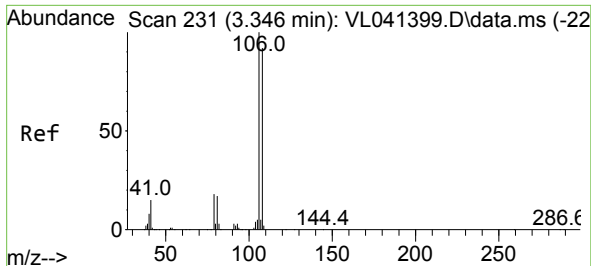
Tgt Ion:101 Resp: 5241
Ion Ratio Lower Upper
101 100
103 61.7 52.6 79.0



#13
Ethanol
Concen: 0.516 ppbv
RT: 3.272 min Scan# 208
Delta R.T. 0.013 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

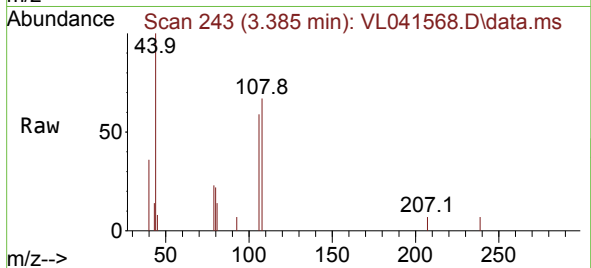
Tgt Ion: 45 Resp: 2546
Ion Ratio Lower Upper
45 100
46 0.0 13.4 53.4#



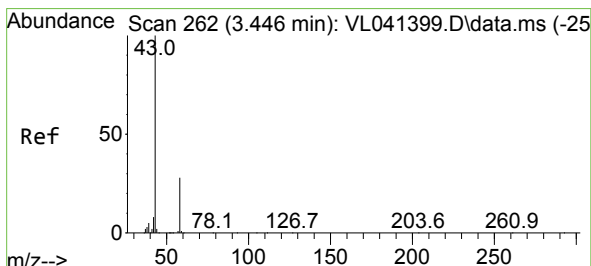
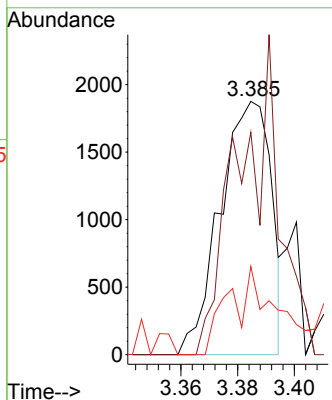
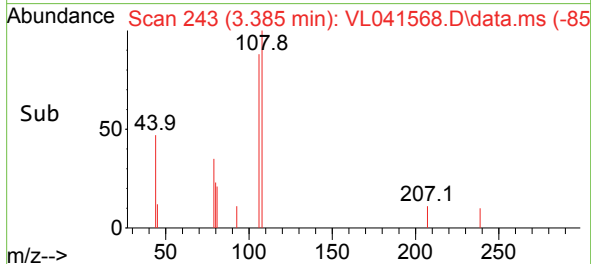


#14
Bromoethene
Concen: 0.054 ppbv
RT: 3.385 min Scan# 24
Delta R.T. 0.010 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :

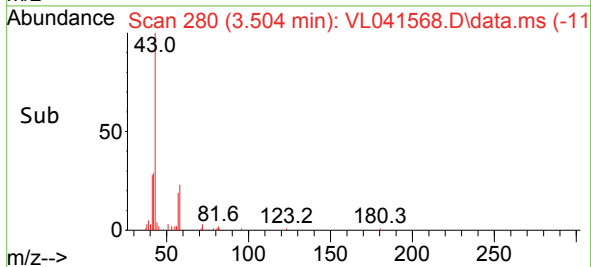
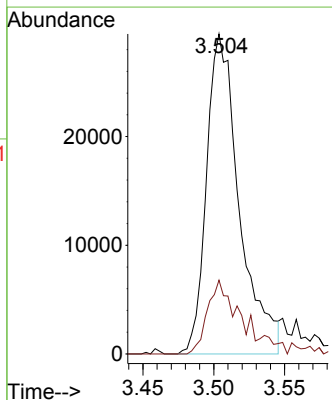
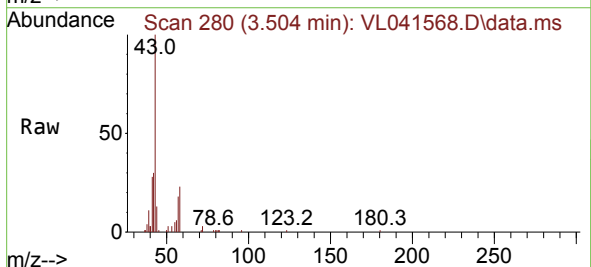


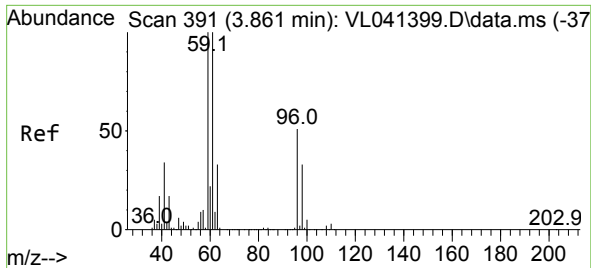
Tgt Ion:108 Resp: 2352
Ion Ratio Lower Upper
108 100
106 101.0 86.9 130.3
79 40.2 16.2 24.4#



#15
Acetone
Concen: 0.413 ppbv
RT: 3.504 min Scan# 280
Delta R.T. 0.026 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

Tgt Ion: 43 Resp: 47391
Ion Ratio Lower Upper
43 100
58 25.9 21.4 32.2

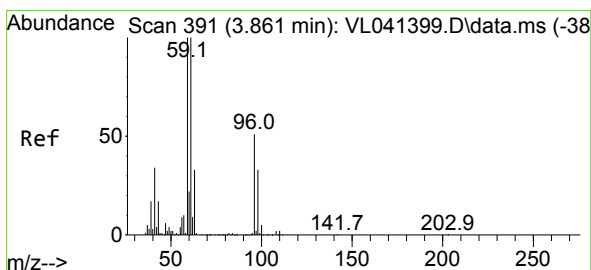
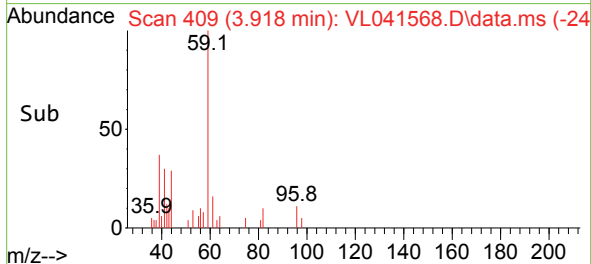
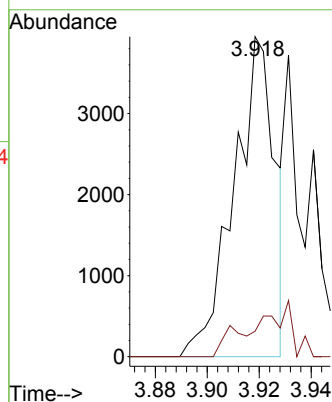
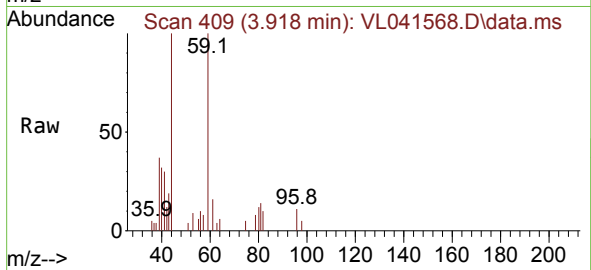




#17
tert-Butyl alcohol
Concen: 0.041 ppbv
RT: 3.918 min Scan# 409
Delta R.T. 0.035 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

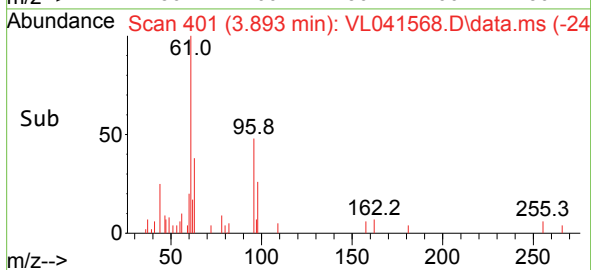
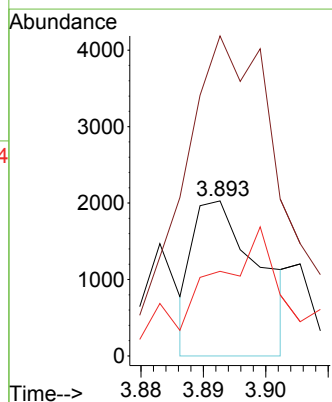
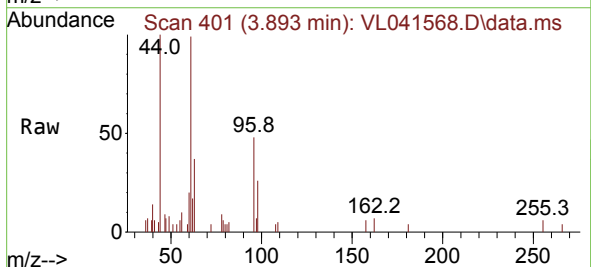
Instrument :
MSVOA_L
ClientSampleId :

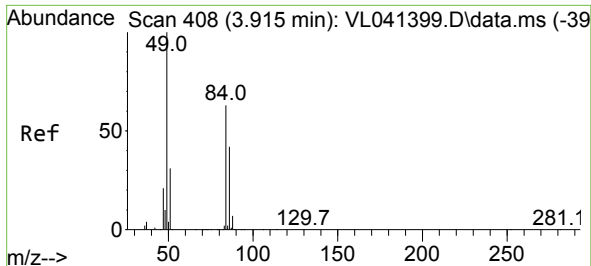
Tgt Ion: 59 Resp: 4270
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#18
1,1-Dichloroethene
Concen: 0.031 ppbv
RT: 3.893 min Scan# 401
Delta R.T. 0.006 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

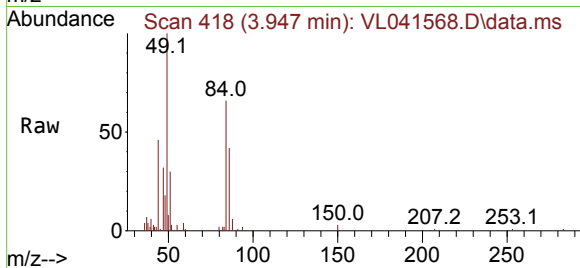
Tgt Ion: 96 Resp: 1480
Ion Ratio Lower Upper
96 100
61 170.0 157.5 236.3
98 61.6 51.2 76.8



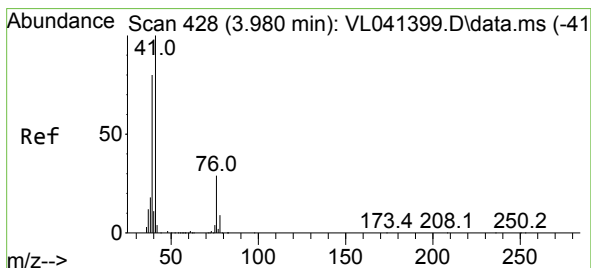
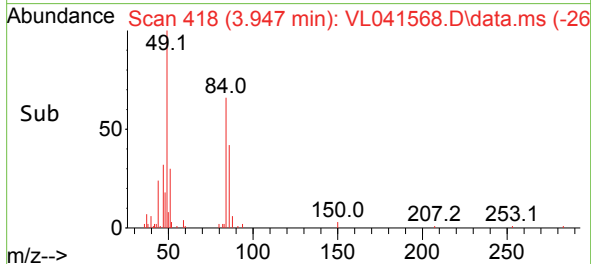
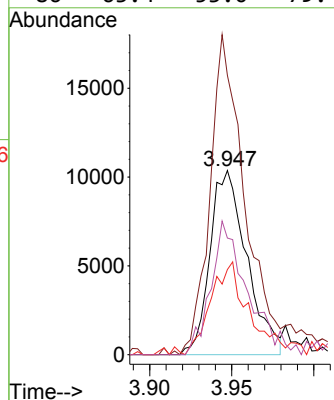


#20
Methylene Chloride
Concen: 0.378 ppbv
RT: 3.947 min Scan# 418
Delta R.T. 0.006 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :

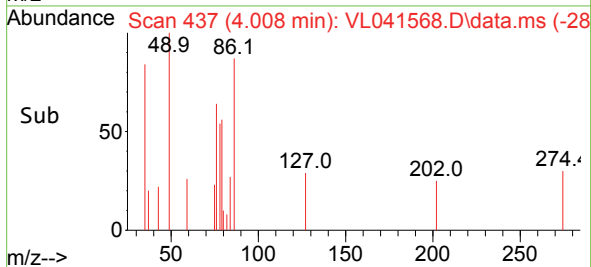
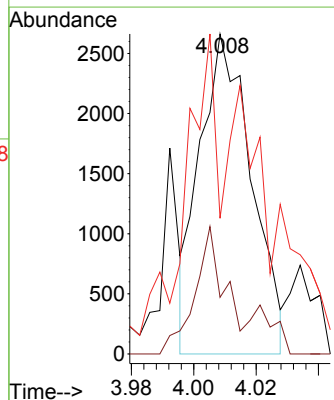
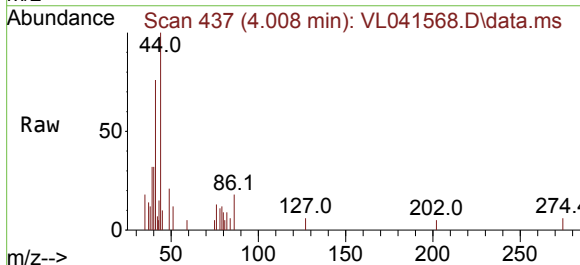


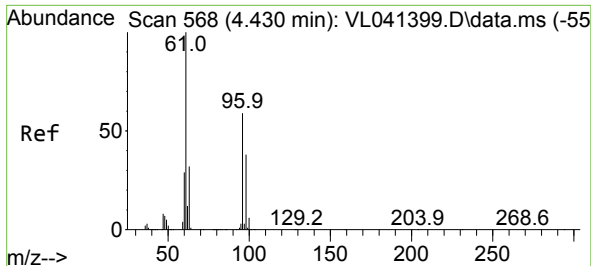
Tgt Ion:	84	Resp:	16167
Ion	Ratio	Lower	Upper
84	100		
49	151.6	126.6	190.0
51	48.5	38.6	58.0
86	63.4	53.0	79.4



#21
Allyl Chloride
Concen: 0.041 ppbv
RT: 4.008 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

Tgt Ion:	41	Resp:	3073
Ion	Ratio	Lower	Upper
41	100		
76	30.3	23.7	35.5
39	116.8	64.3	96.5

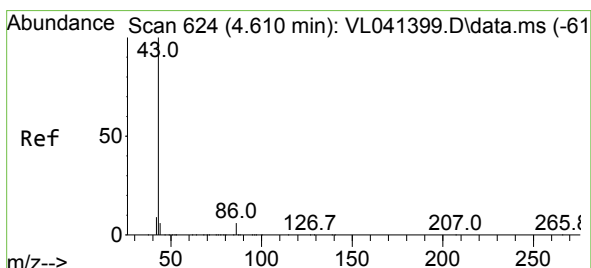
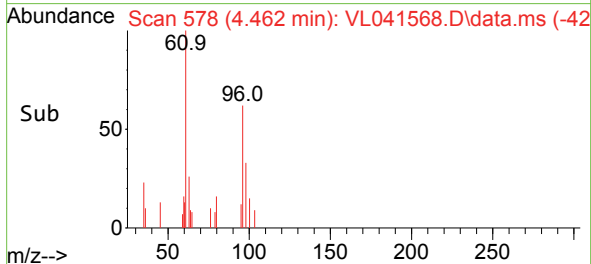
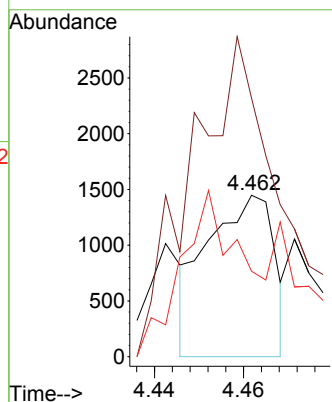
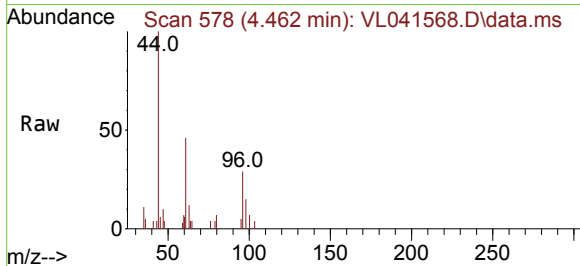




#22
trans-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 4.462 min Scan# 51
Delta R.T. 0.010 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

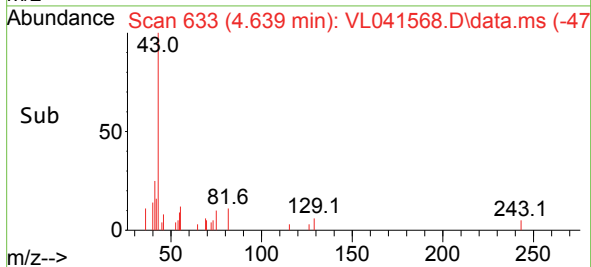
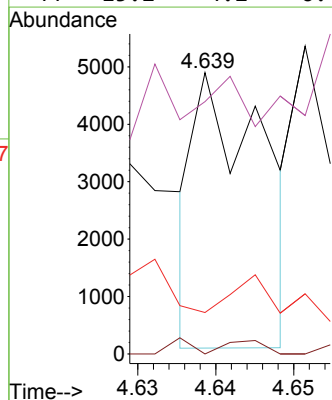
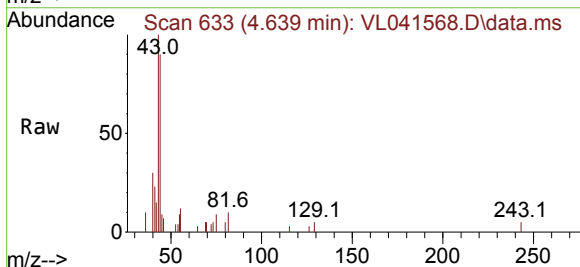
Instrument :
MSVOA_L
ClientSampleId :

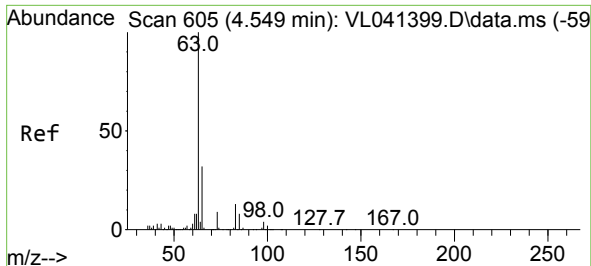
Tgt Ion: 96 Resp: 1506
Ion Ratio Lower Upper
96 100
61 176.1 135.4 203.2
98 0.0 51.0 76.4#



#23
Vinyl Acetate
Concen: 0.033 ppbv
RT: 4.639 min Scan# 633
Delta R.T. 0.006 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

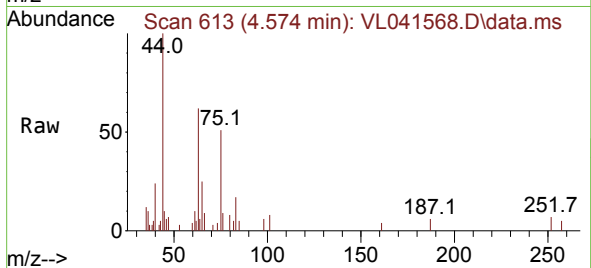
Tgt Ion: 43 Resp: 2917
Ion Ratio Lower Upper
43 100
86 0.0 4.6 6.8#
42 0.6 7.9 11.9#
44 15.2 4.2 6.4#



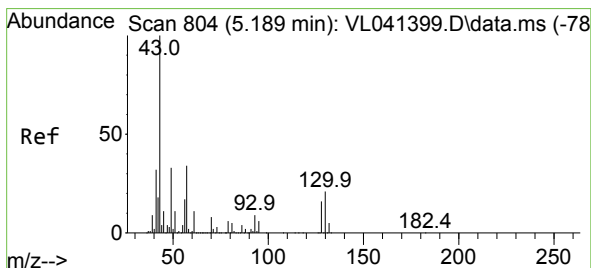
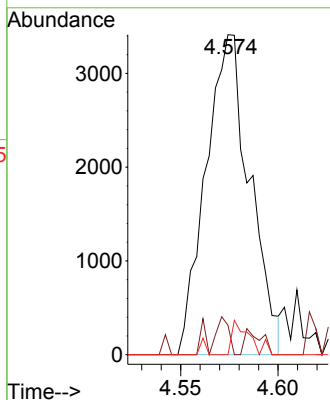
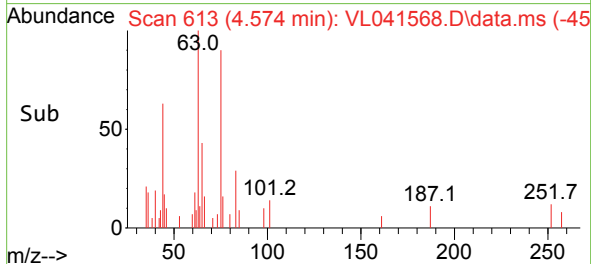


#24
1,1-Dichloroethane
Concen: 0.052 ppbv
RT: 4.574 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

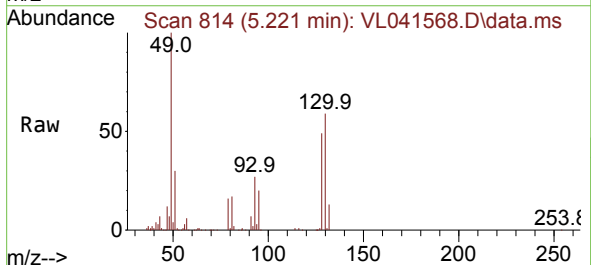
Instrument :
MSVOA_L
ClientSampleId :



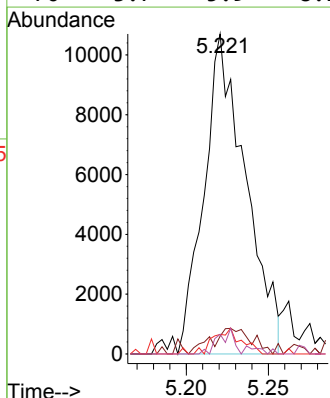
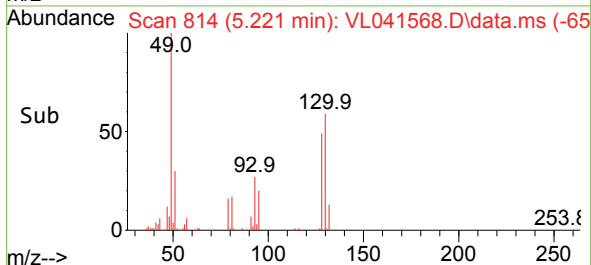
Tgt Ion: 63 Resp: 5371
Ion Ratio Lower Upper
63 100
98 8.4 2.0 6.0#
100 0.0 1.2 3.6#

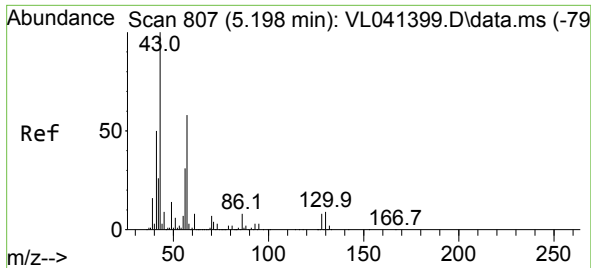


#25
Ethyl Acetate
Concen: 0.082 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.013 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34



Tgt Ion: 43 Resp: 18814
Ion Ratio Lower Upper
43 100
45 8.8 8.5 12.7
61 5.3 8.0 12.0#
70 3.7 5.9 8.9#

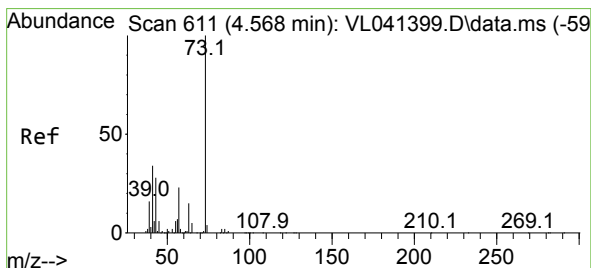
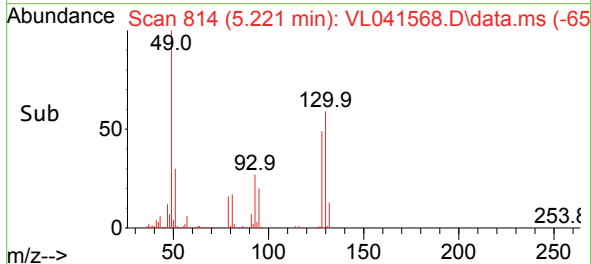
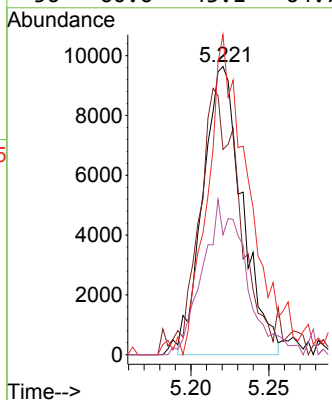
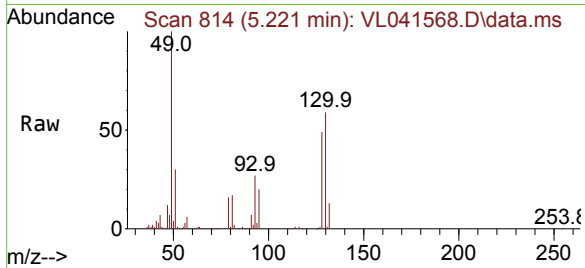




#26
Hexane
Concen: 0.178 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.003 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

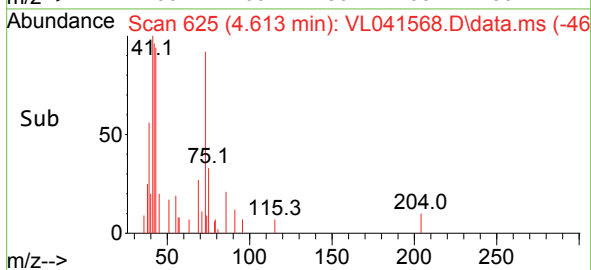
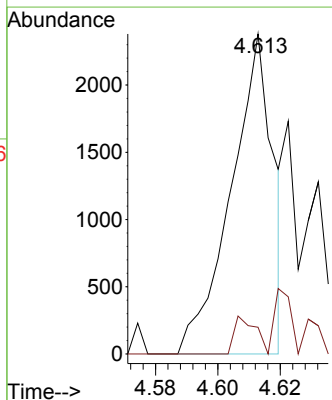
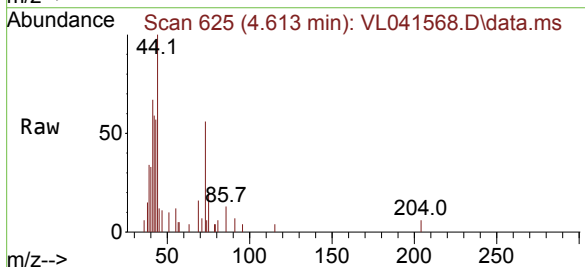
Instrument :
MSVOA_L
ClientSampleId :

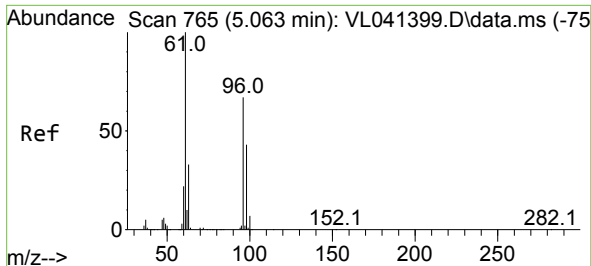
Tgt Ion: 57 Resp: 16858
Ion Ratio Lower Upper
57 100
41 103.3 74.0 111.0
43 125.4 193.6 290.4#
56 60.6 43.1 64.7



#28
Methyl tert-Butyl Ether
Concen: 0.037 ppbv
RT: 4.613 min Scan# 625
Delta R.T. 0.019 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

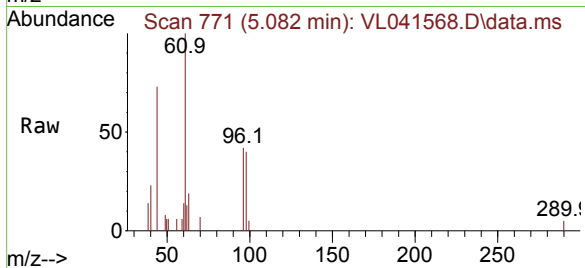
Tgt Ion: 73 Resp: 2217
Ion Ratio Lower Upper
73 100
57 0.0 18.9 28.3#



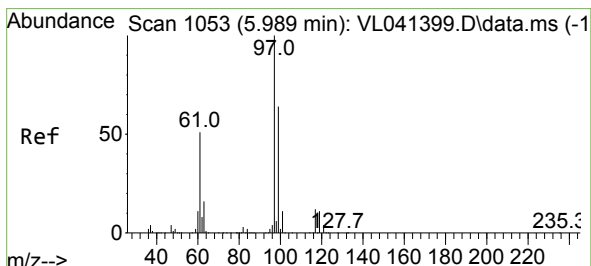
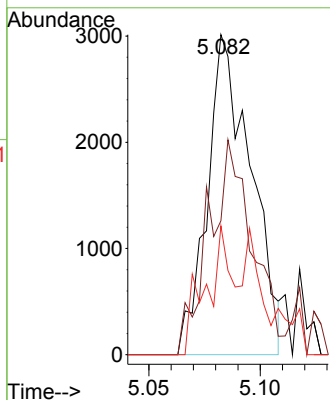
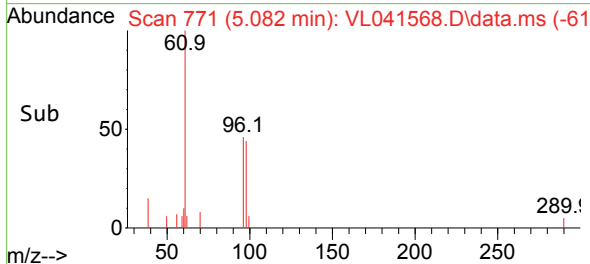


#31
 cis-1,2-Dichloroethene
 Concen: 0.044 ppbv
 RT: 5.082 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VL041568.D
 Acq: 21 Aug 2024 15:34

Instrument :
 MSVOA_L
 ClientSampleId :

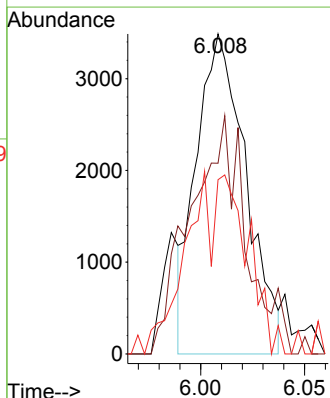
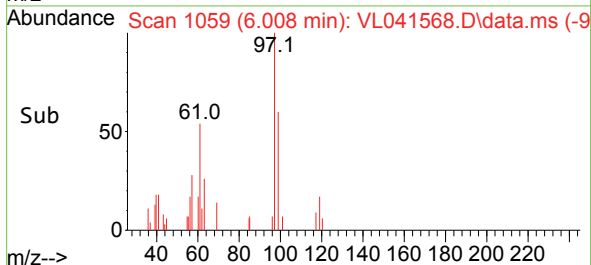
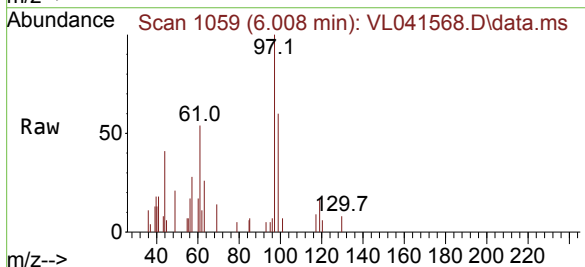


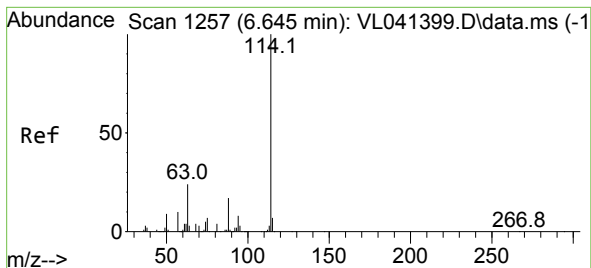
Tgt Ion: 61 Resp: 4107
 Ion Ratio Lower Upper
 61 100
 96 41.9 53.4 80.2#
 98 40.3 34.4 51.6



#32
 1,1,1-Trichloroethane
 Concen: 0.039 ppbv
 RT: 6.008 min Scan# 1059
 Delta R.T. 0.003 min
 Lab File: VL041568.D
 Acq: 21 Aug 2024 15:34

Tgt Ion: 97 Resp: 5797
 Ion Ratio Lower Upper
 97 100
 99 84.4 52.0 78.0#
 61 69.2 41.8 62.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL041568.D

Acq: 21 Aug 2024 15:34

Instrument :

MSVOA_L

ClientSampleId :

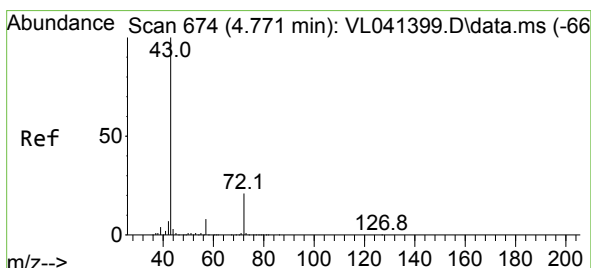
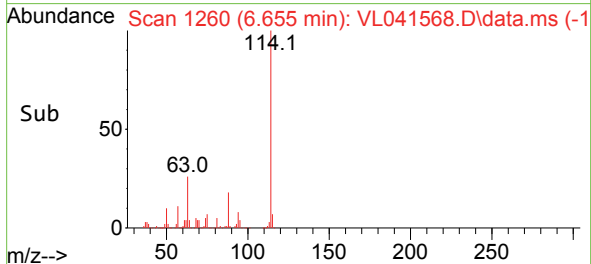
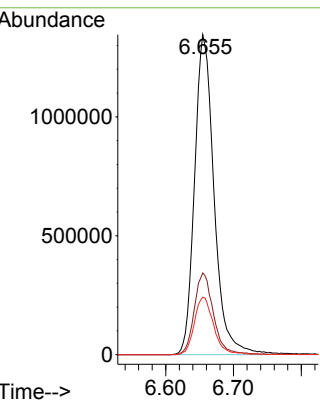
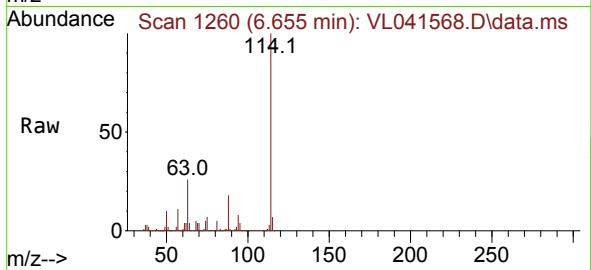
Tgt Ion:114 Resp: 2687632

Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 0.104 ppbv

RT: 4.822 min Scan# 690

Delta R.T. 0.029 min

Lab File: VL041568.D

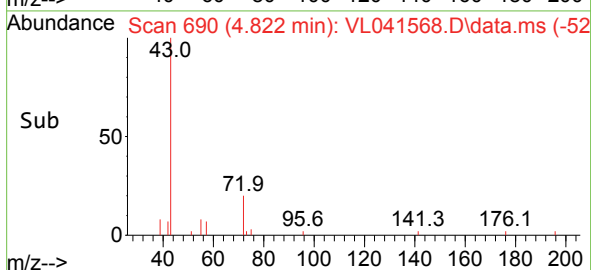
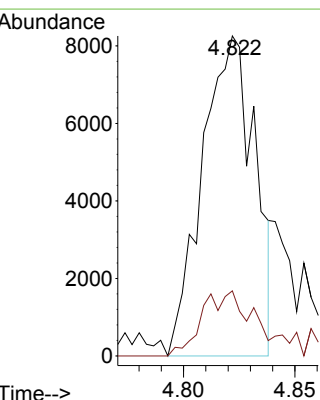
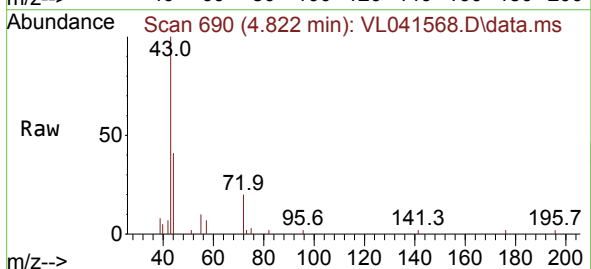
Acq: 21 Aug 2024 15:34

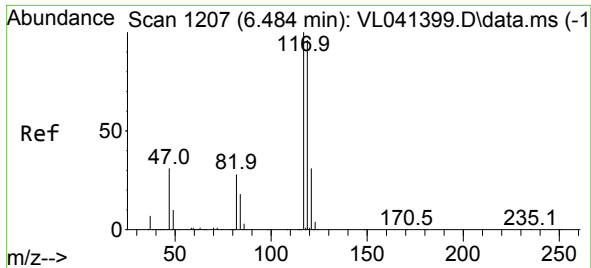
Tgt Ion: 43 Resp: 13499

Ion Ratio Lower Upper

43 100

72 24.2 17.3 25.9

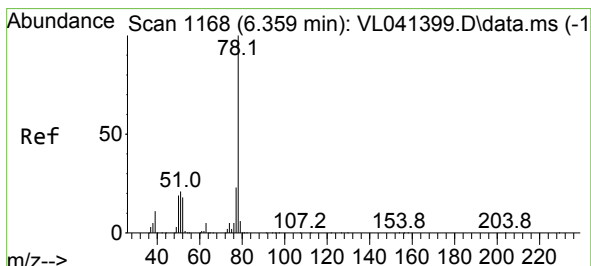
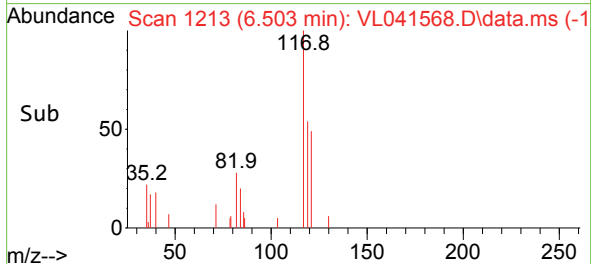
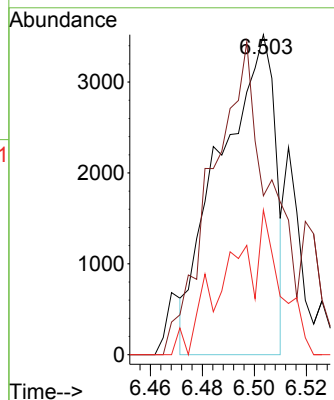
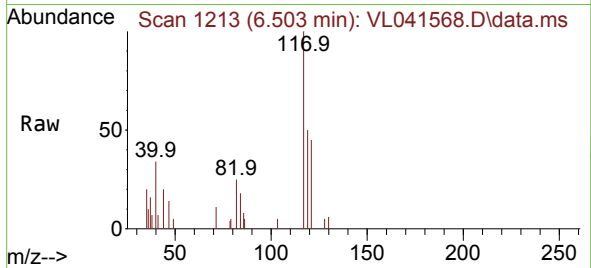




#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 6.503 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

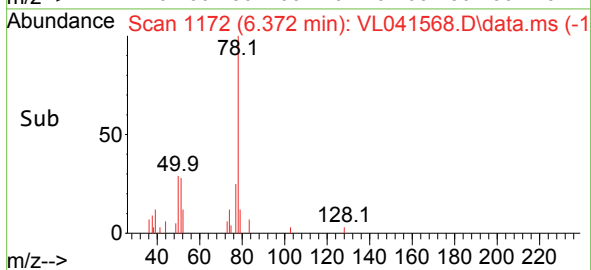
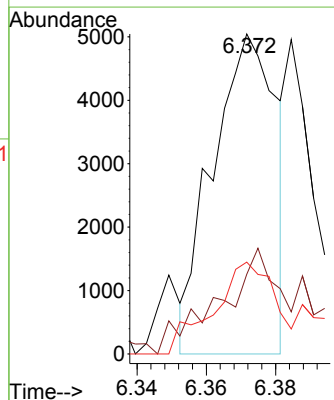
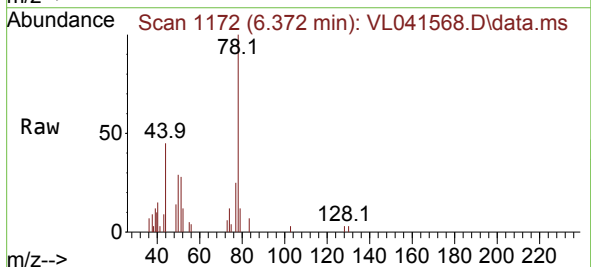
Instrument :
MSVOA_L
ClientSampleId :

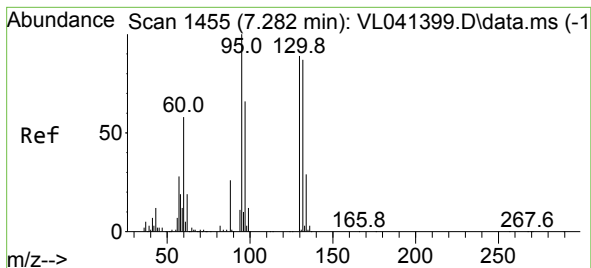
Tgt Ion:117 Resp: 5233
Ion Ratio Lower Upper
117 100
119 45.1 76.6 115.0#
121 44.7 25.1 37.7#



#36
Benzene
Concen: 0.033 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

Tgt Ion: 78 Resp: 6390
Ion Ratio Lower Upper
78 100
77 22.9 18.1 27.1
50 22.1 15.5 23.3





#38

Trichloroethene

Concen: 0.036 ppbv

RT: 7.294 min Scan# 1455

Delta R.T. 0.003 min

Lab File: VL041568.D

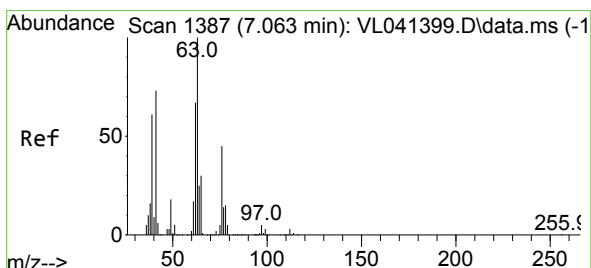
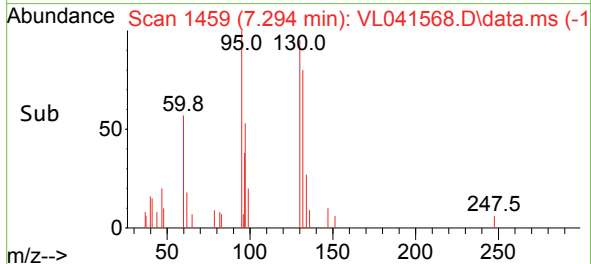
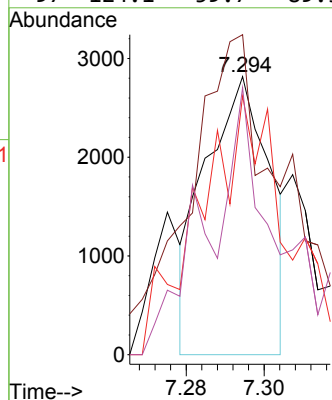
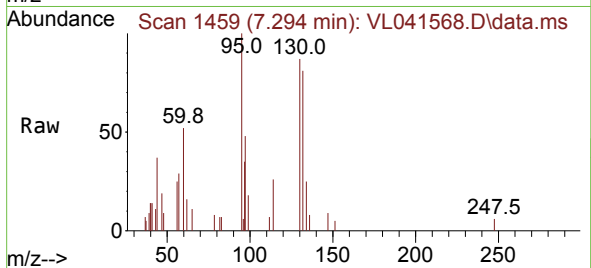
Acq: 21 Aug 2024 15:34

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	130	Resp:	3242
Ion	Ratio	Lower	Upper
130	100		
95	90.5	90.2	135.2
132	115.2	78.1	117.1
97	124.1	59.7	89.5



#39

1,2-Dichloropropane

Concen: 8.949 ppbv

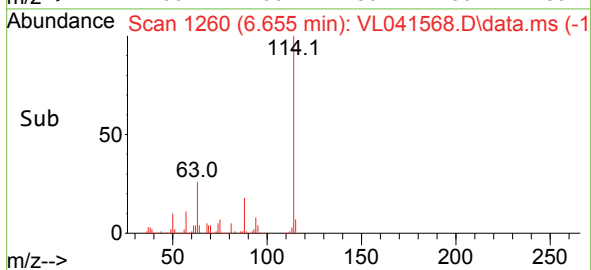
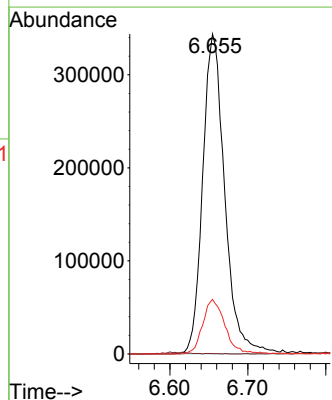
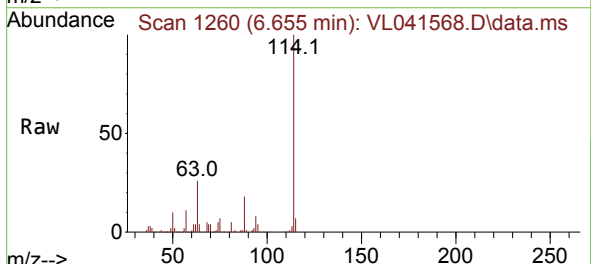
RT: 6.655 min Scan# 1260

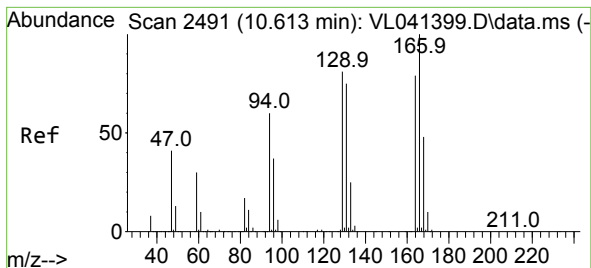
Delta R.T. -0.421 min

Lab File: VL041568.D

Acq: 21 Aug 2024 15:34

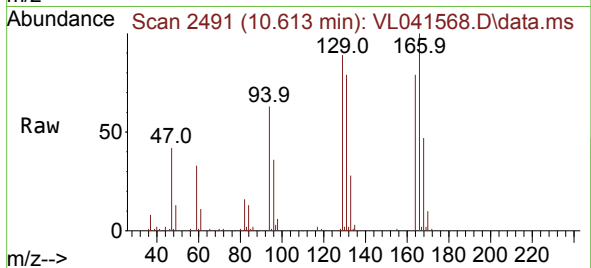
Tgt Ion:	63	Resp:	672837
Ion	Ratio	Lower	Upper
63	100		
41	0.1	58.3	87.5
62	17.1	53.9	80.9



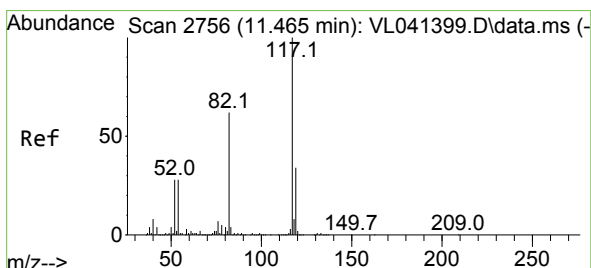
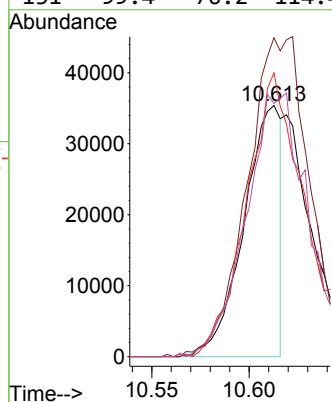
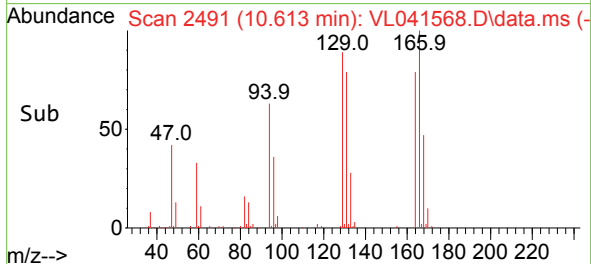


#52
Tetrachloroethene
Concen: 0.617 ppbv
RT: 10.613 min Scan# 2491
Delta R.T. -0.003 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :

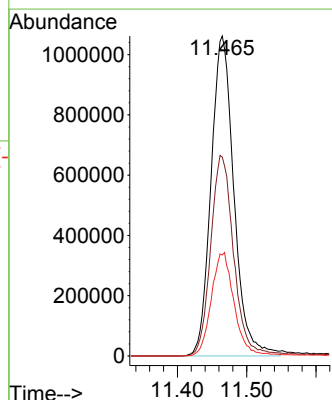
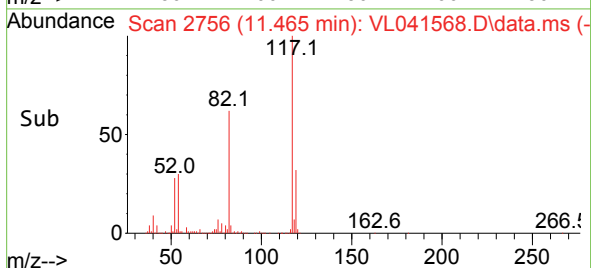
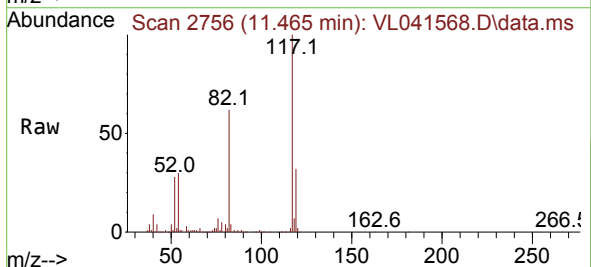


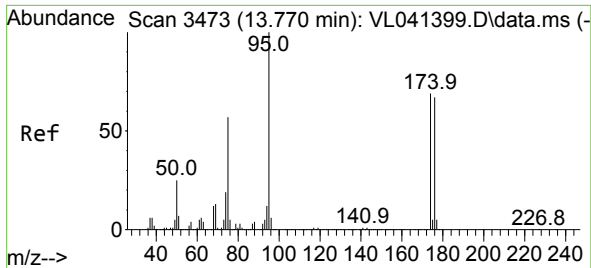
Tgt Ion:164 Resp: 46783
Ion Ratio Lower Upper
164 100
166 126.9 101.1 151.7
129 112.0 81.7 122.5
131 99.4 76.2 114.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.000 min
Lab File: VL041568.D
Acq: 21 Aug 2024 15:34

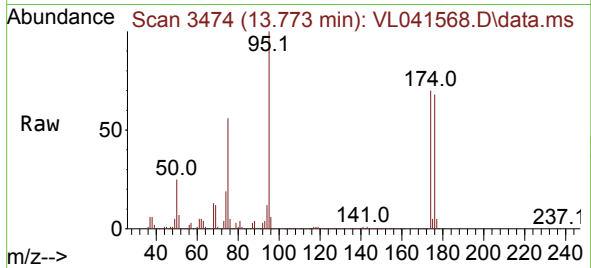
Tgt Ion:117 Resp: 2438224
Ion Ratio Lower Upper
117 100
82 63.5 51.0 76.6
119 33.1 45.2 67.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.039 ppbv
 RT: 13.773 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: VL041568.D
 Acq: 21 Aug 2024 15:34

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 1883752
 Ion Ratio Lower Upper
 95 100
 174 70.6 56.3 84.5
 175 5.0 4.0 6.0

