

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040824\
 Data File : VL041147.D
 Acq On : 8 Apr 2024 12:43
 Operator : SY/MD
 Sample : P1953-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Apr 09 01:12:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Apr 09 01:10:08 2024
 Response via : Initial Calibration

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

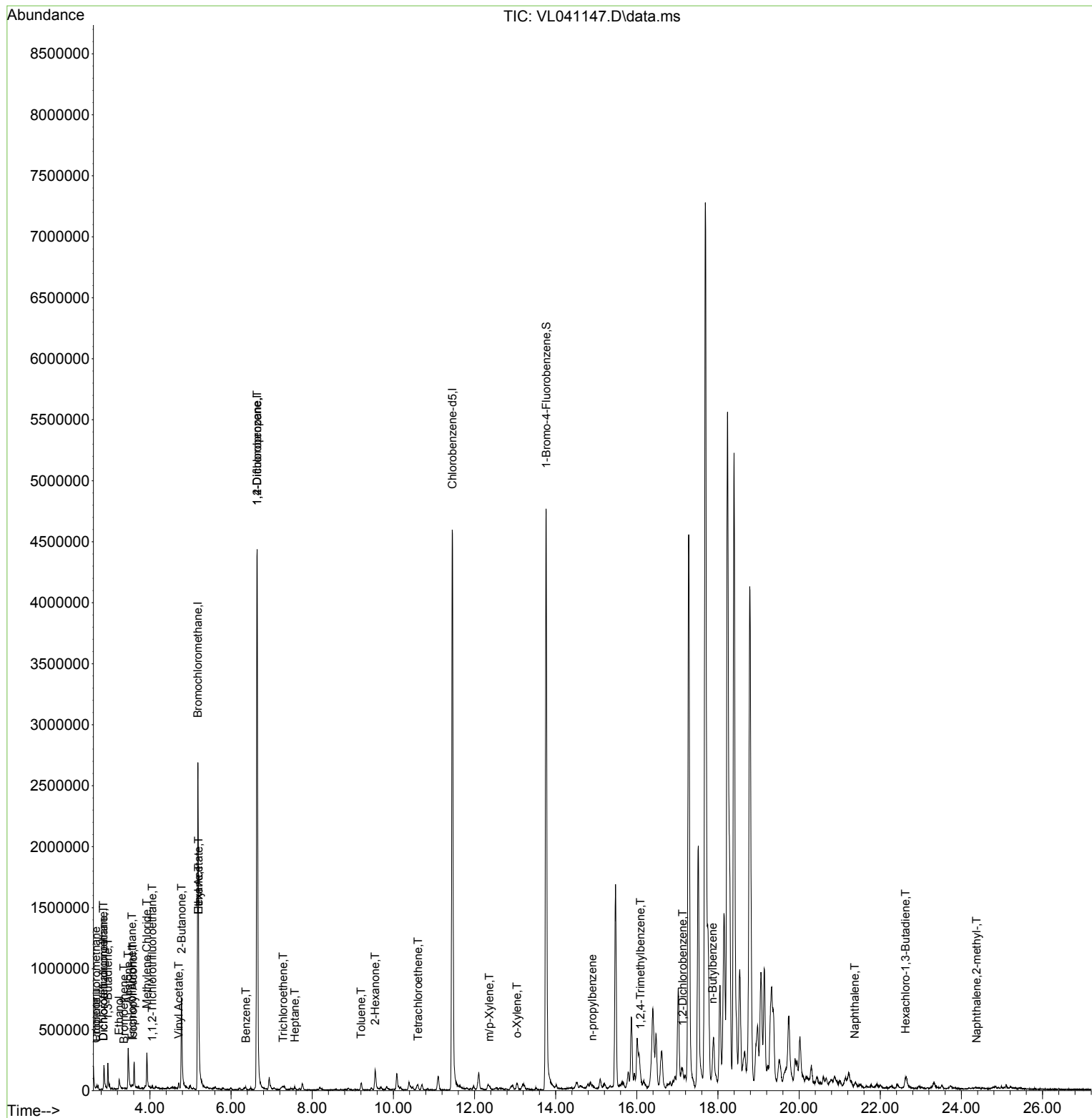
Internal Standards						
1) Bromochloromethane	5.182	49	1296419	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3399603	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	3072051	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2423194	9.809	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.851	85	7415	0.033	ppbv	100
3) Chlorodifluoromethane	2.671	51	13855	0.069	ppbv	97
8) Dichlorotetrafluoroethane	2.851	85	7415	0.039	ppbv	96
9) Propene	2.684	41	4722	0.074	ppbv #	12
10) Heptane	7.568	43	4892	0.032	ppbv #	36
11) Trichlorofluoromethane	3.558	101	8816	0.044	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.057	101	5563	0.038	ppbv #	81
13) Ethanol	3.243	45	72293	4.785	ppbv	89
14) Bromoethene	3.359	108	1958	0.034	ppbv	91
15) Acetone	3.465	43	351458	2.504	ppbv #	76
16) 1,3-Butadiene	2.967	39	49206	0.714	ppbv #	24
19) Isopropyl Alcohol	3.581	45	25091	0.294	ppbv #	89
20) Methylene Chloride	3.925	84	92513	1.598	ppbv	98
23) Vinyl Acetate	4.713	43	12819	0.089	ppbv #	31
25) Ethyl Acetate	5.201	43	69867	0.265	ppbv #	80
26) Hexane	5.201	57	82474	0.697	ppbv #	44
34) 2-Butanone	4.780	43	955540	6.642	ppbv	99
36) Benzene	6.365	78	11792	0.047	ppbv #	70
38) Trichloroethene	7.282	130	2979	0.033	ppbv #	65
39) 1,2-Dichloropropane	6.642	63	834399	8.476	ppbv #	24
51) 2-Hexanone	9.552	43	145596	0.829	ppbv #	94
52) Tetrachloroethene	10.609	164	2754	0.035	ppbv #	83
53) Toluene	9.208	91	25105	0.096	ppbv #	20
59) m/p-Xylene	12.362	91	13068	0.043	ppbv #	32
60) o-Xylene	13.047	91	18368	0.064	ppbv	82
64) n-propylbenzene	14.902	120	4848	0.045	ppbv #	51
70) n-Butylbenzene	17.873	91	27001	0.059	ppbv #	90
74) 1,2,4-Trimethylbenzene	16.092	105	23209	0.072	ppbv #	74
77) 1,2-Dichlorobenzene	17.130	146	5671	0.031	ppbv #	22
78) Hexachloro-1,3-Butadiene	22.625	225	4470	0.037	ppbv #	1
79) Naphthalene	21.371	128	8907	0.043	ppbv #	79
80) Naphthalene,2-methyl-	24.374	142	5223	0.129	ppbv #	66

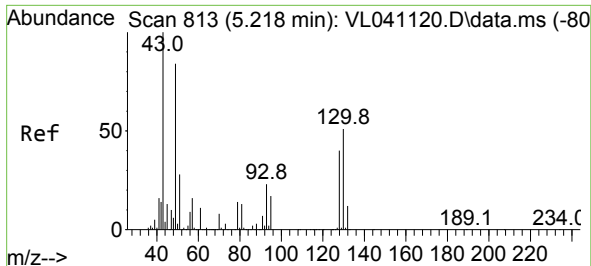
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SV2DL

Quant Time: Apr 09 01:12:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Apr 09 01:10:08 2024
Response via : Initial Calibration

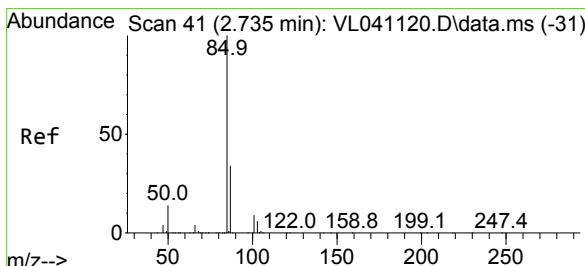
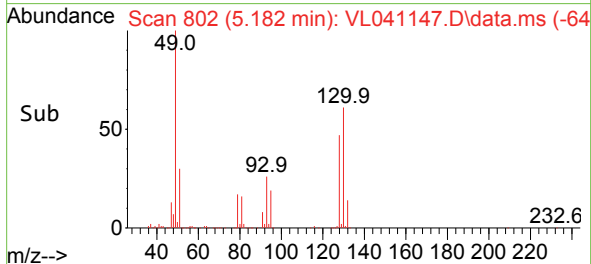
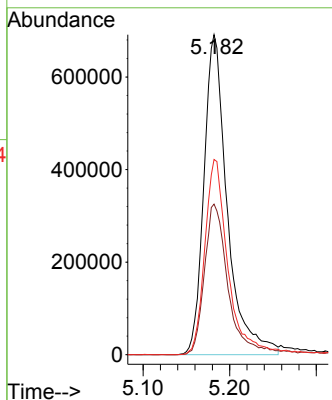
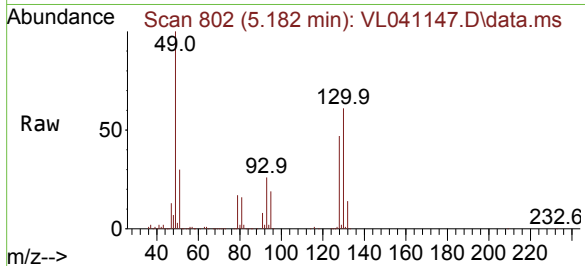




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

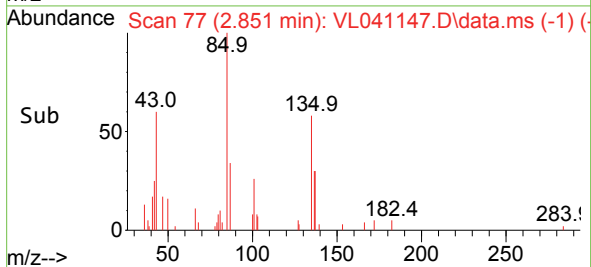
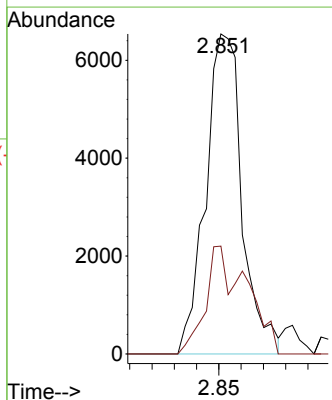
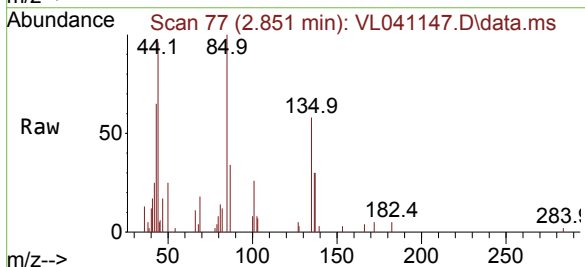
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

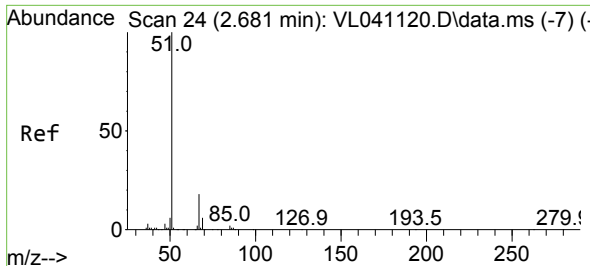
Tgt Ion: 49 Resp: 1296419
Ion Ratio Lower Upper
49 100
128 49.4 23.6 71.0
130 62.1 30.1 90.5



#2
Dichlorodifluoromethane
Concen: 0.033 ppbv
RT: 2.851 min Scan# 77
Delta R.T. 0.135 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion: 85 Resp: 7415
Ion Ratio Lower Upper
85 100
87 33.7 27.0 40.6

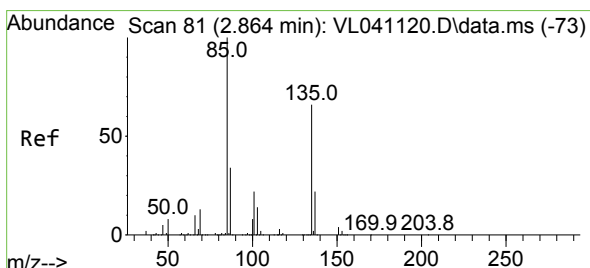
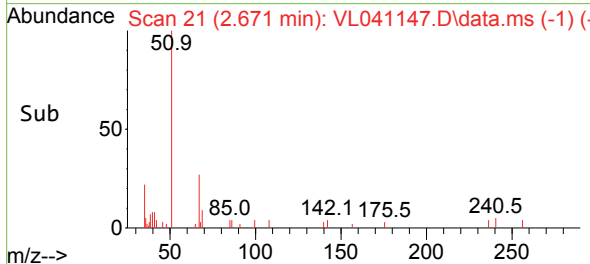
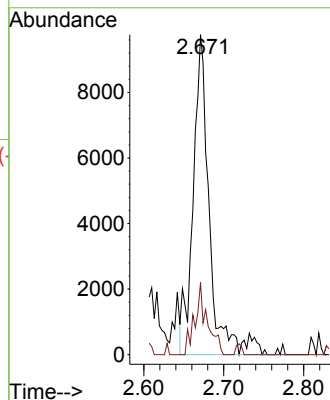
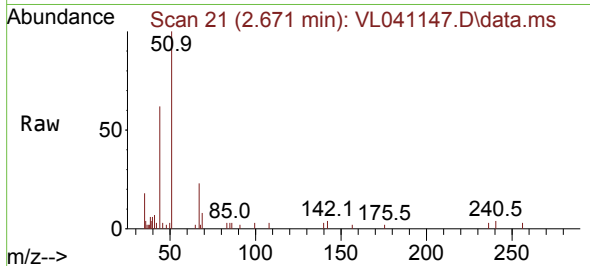




#3
Chlorodifluoromethane
Concen: 0.069 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

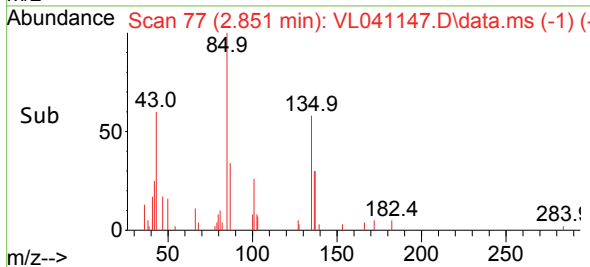
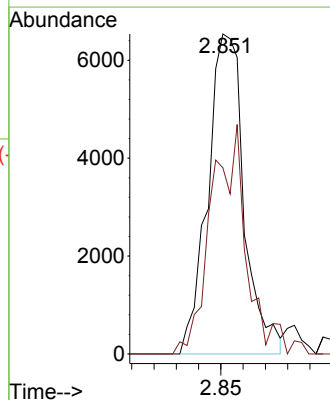
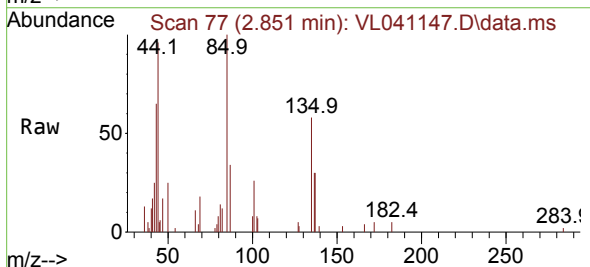
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

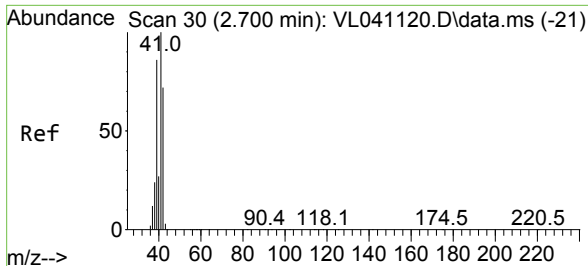
Tgt Ion: 51 Resp: 13855
Ion Ratio Lower Upper
51 100
67 17.3 14.9 22.3



#8
Dichlorotetrafluoroethane
Concen: 0.039 ppbv
RT: 2.851 min Scan# 77
Delta R.T. 0.006 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion: 85 Resp: 7415
Ion Ratio Lower Upper
85 100
135 70.8 54.2 81.2

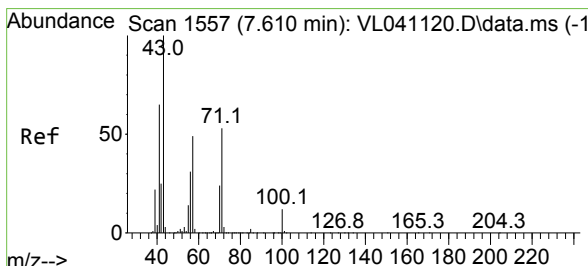
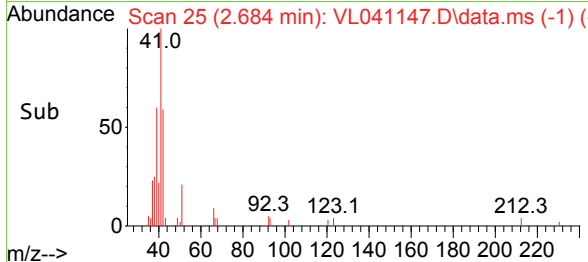
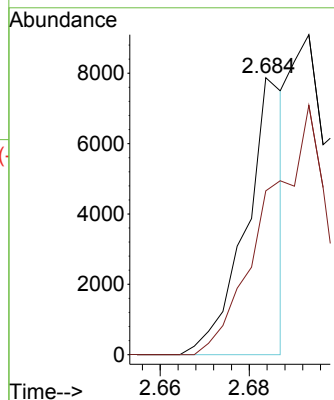
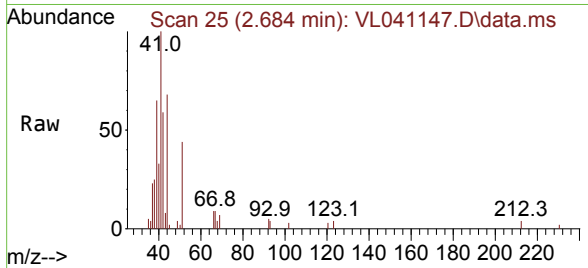




#9
Propene
Concen: 0.074 ppbv
RT: 2.684 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

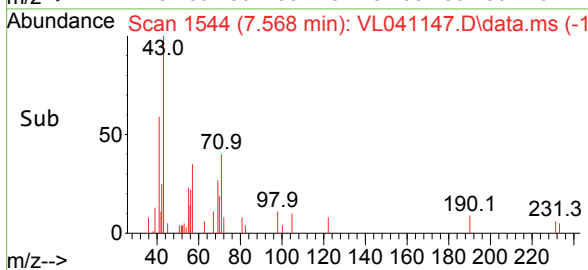
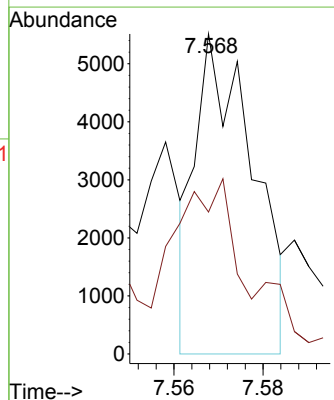
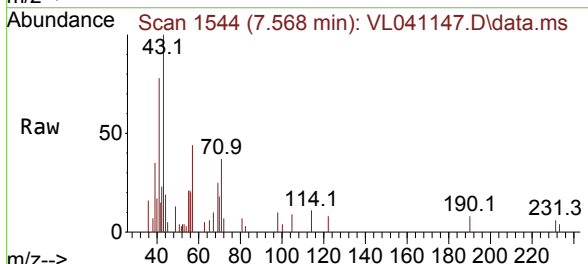
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

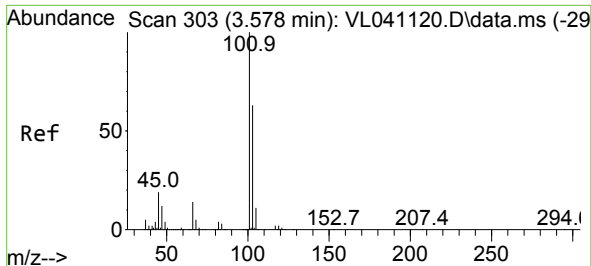
Tgt Ion: 41 Resp: 4722
Ion Ratio Lower Upper
41 100
42 0.0 60.1 90.1#



#10
Heptane
Concen: 0.032 ppbv
RT: 7.568 min Scan# 1544
Delta R.T. 0.006 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion: 43 Resp: 4892
Ion Ratio Lower Upper
43 100
57 94.3 39.9 59.9#

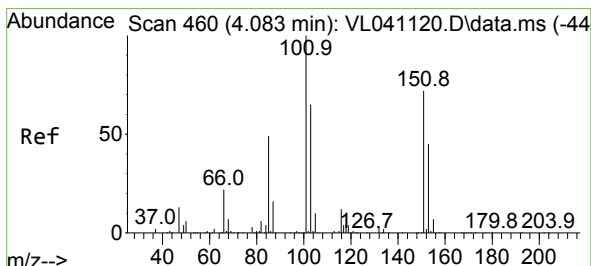
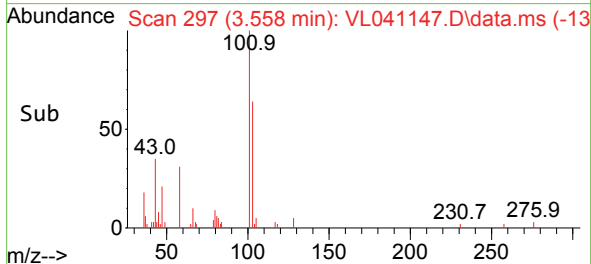
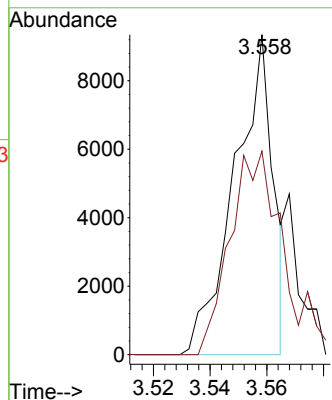
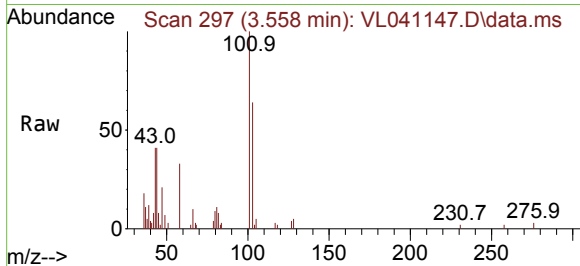




#11
 Trichlorofluoromethane
 Concen: 0.044 ppbv
 RT: 3.558 min Scan# 297
 Delta R.T. 0.009 min
 Lab File: VL041147.D
 Acq: 8 Apr 2024 12:43

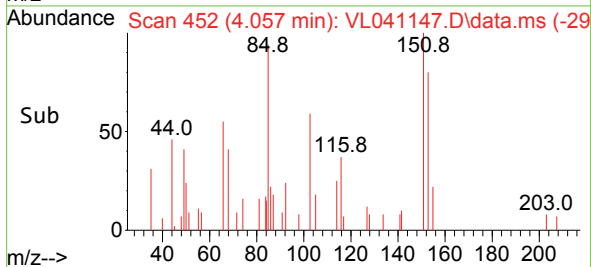
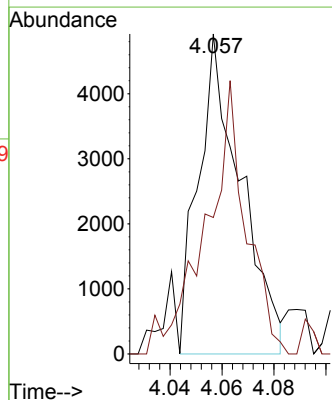
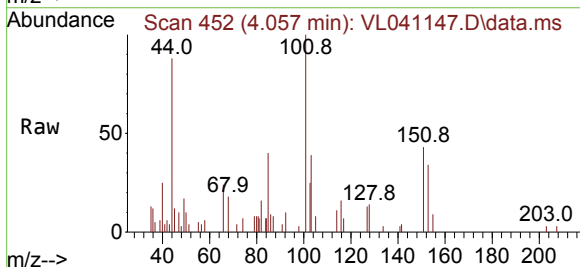
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

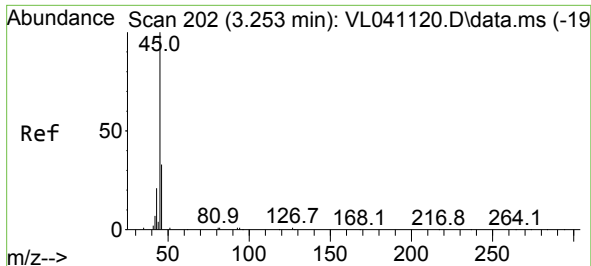
Tgt Ion:101 Resp: 8816
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.038 ppbv
 RT: 4.057 min Scan# 452
 Delta R.T. 0.003 min
 Lab File: VL041147.D
 Acq: 8 Apr 2024 12:43

Tgt Ion:101 Resp: 5563
 Ion Ratio Lower Upper
 101 100
 151 85.6 56.2 84.4#

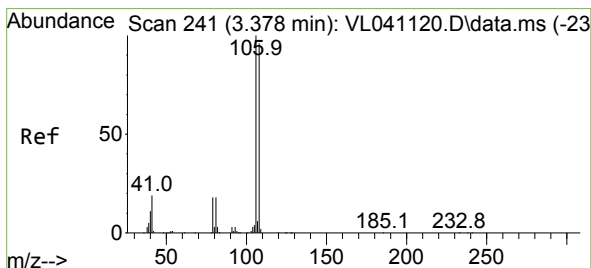
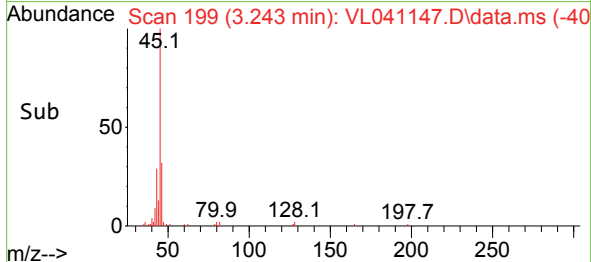
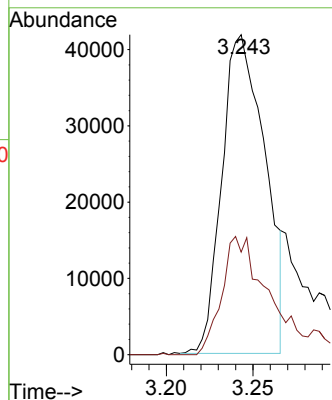
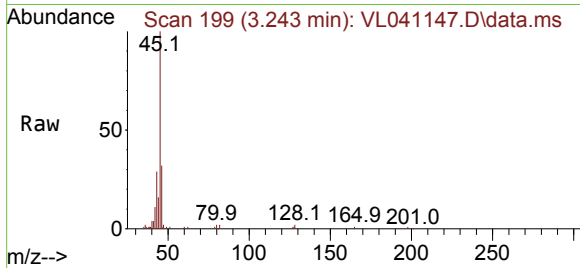




#13
Ethanol
Concen: 4.785 ppbv
RT: 3.243 min Scan# 199
Delta R.T. 0.013 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

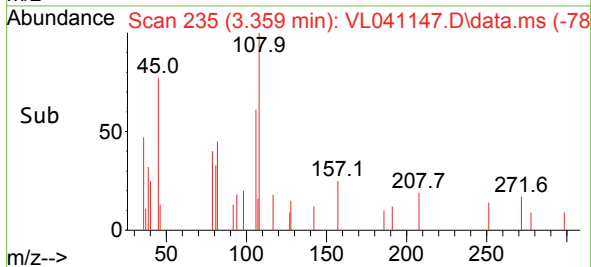
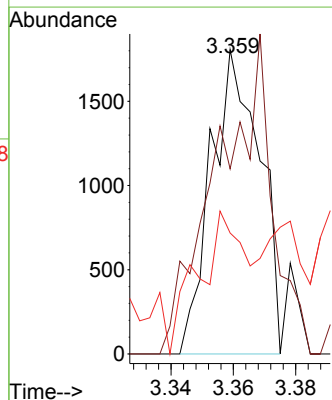
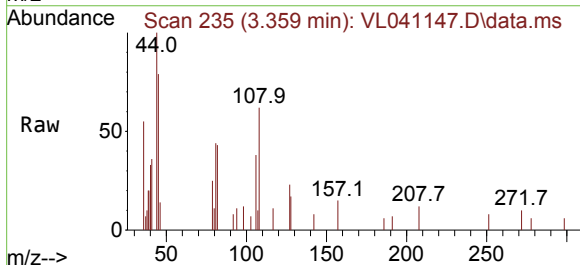
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ClientSampleId :
SV2DL

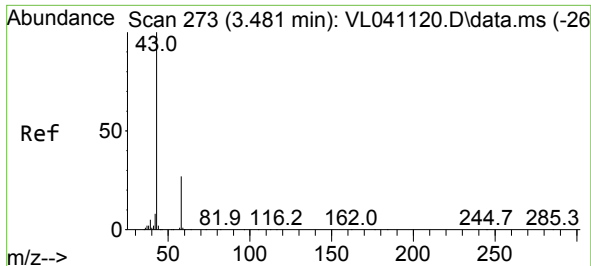
Tgt Ion: 45 Resp: 72293
Ion Ratio Lower Upper
45 100
46 44.1 15.0 59.8



#14
Bromoethene
Concen: 0.034 ppbv
RT: 3.359 min Scan# 235
Delta R.T. 0.006 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion:108 Resp: 1958
Ion Ratio Lower Upper
108 100
106 118.2 86.0 129.0
79 18.7 15.4 23.2

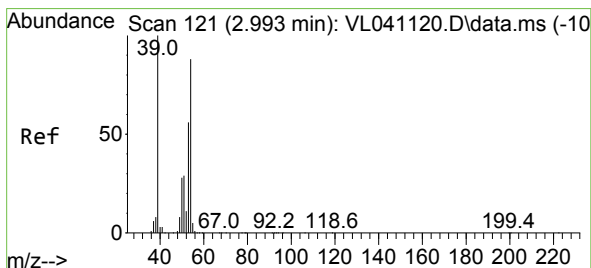
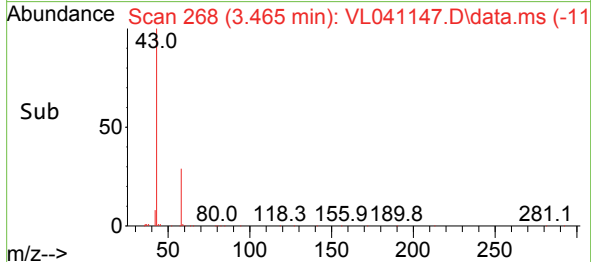
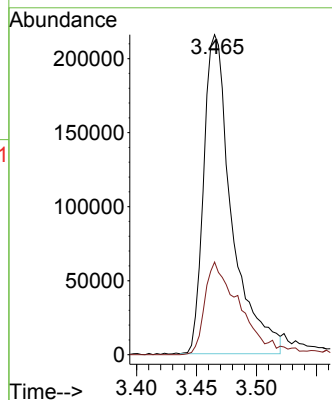
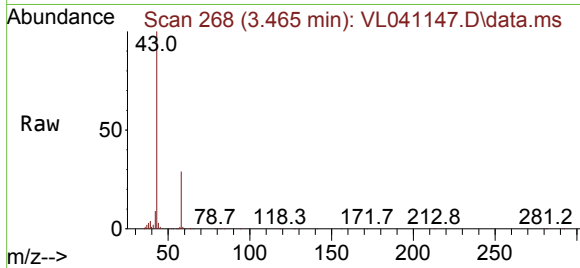




#15
Acetone
Concen: 2.504 ppbv
RT: 3.465 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

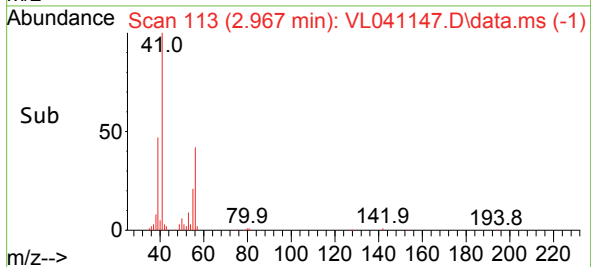
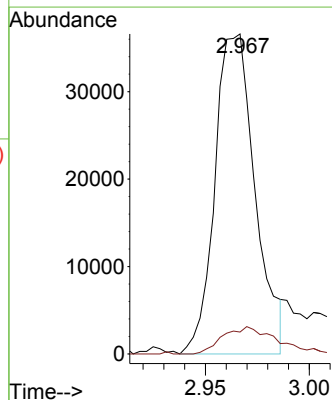
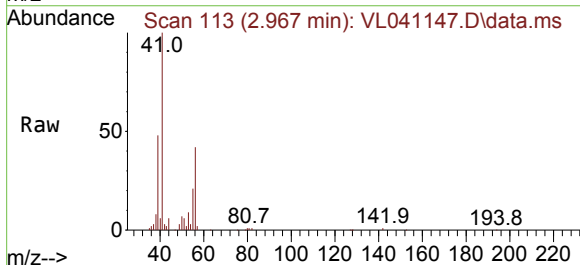
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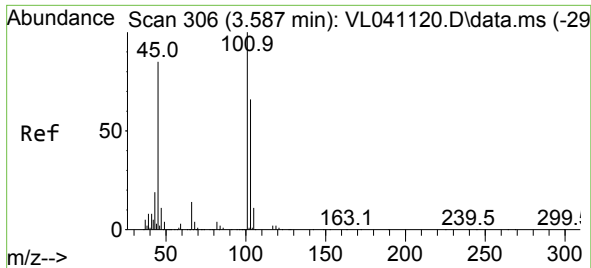
Tgt Ion: 43 Resp: 351458
Ion Ratio Lower Upper
43 100
58 38.7 21.1 31.7#



#16
1,3-Butadiene
Concen: 0.714 ppbv
RT: 2.967 min Scan# 113
Delta R.T. -0.007 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion: 39 Resp: 49206
Ion Ratio Lower Upper
39 100
54 12.3 63.5 95.3#





#19

Isopropyl Alcohol

Concen: 0.294 ppbv

RT: 3.581 min Scan# 306

Delta R.T. 0.019 min

Lab File: VL041147.D

Acq: 8 Apr 2024 12:43

Instrument :

MSVOA_L

ClientSampleId :

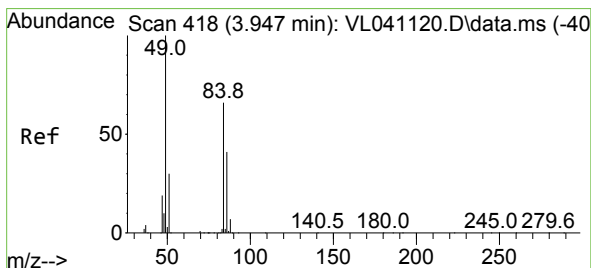
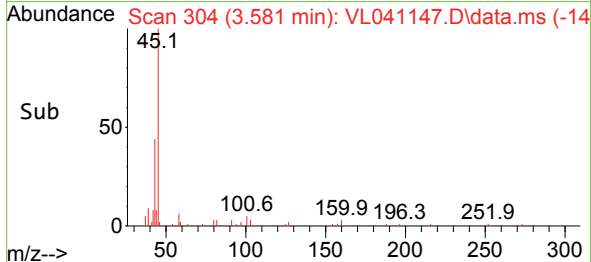
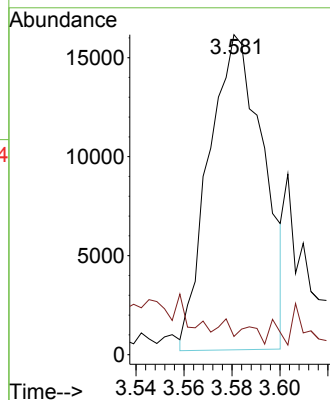
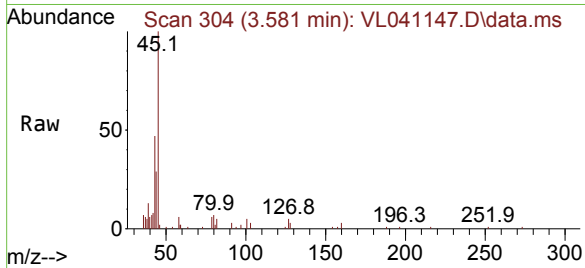
SV2DL

Tgt Ion: 45 Resp: 25091

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#



#20

Methylene Chloride

Concen: 1.598 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.006 min

Lab File: VL041147.D

Acq: 8 Apr 2024 12:43

Tgt Ion: 84 Resp: 92513

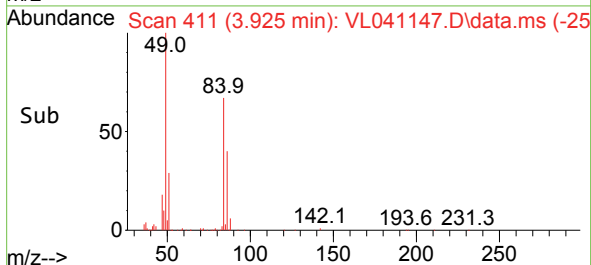
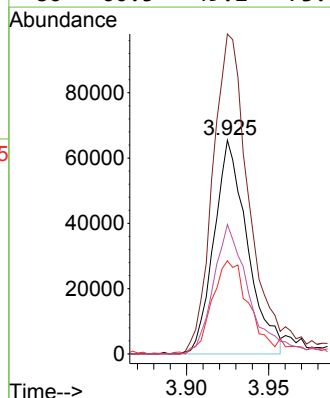
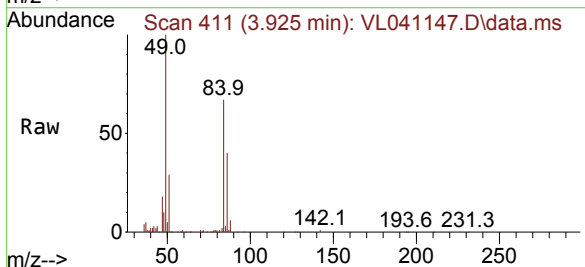
Ion Ratio Lower Upper

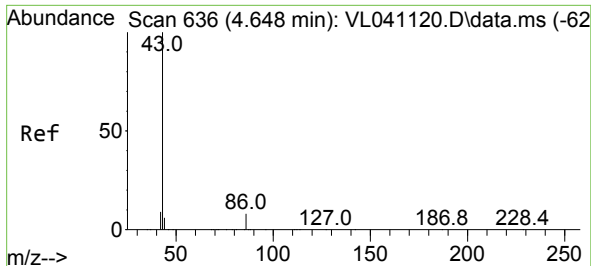
84 100

49 149.7 120.7 181.1

51 42.7 36.6 54.8

86 60.5 49.2 73.8



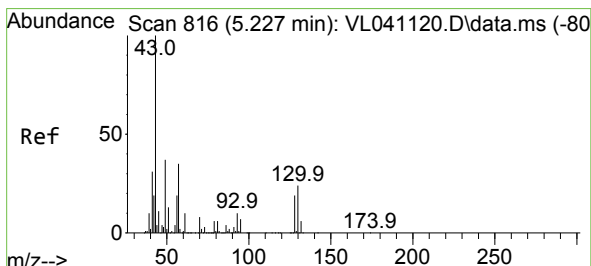
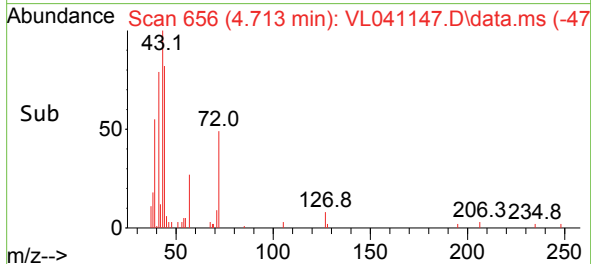
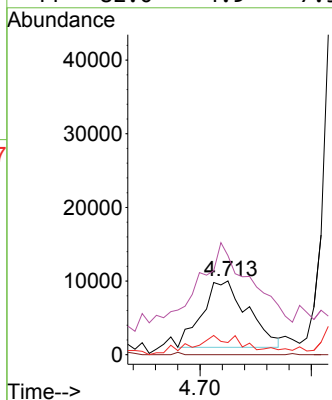
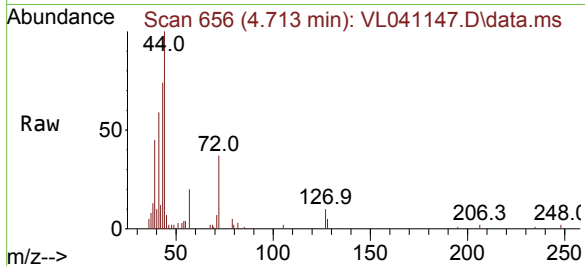


#23
 Vinyl Acetate
 Concen: 0.089 ppbv
 RT: 4.713 min Scan# 61
 Delta R.T. 0.099 min
 Lab File: VL041147.D
 Acq: 8 Apr 2024 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tgt Ion: 43 Resp: 12819

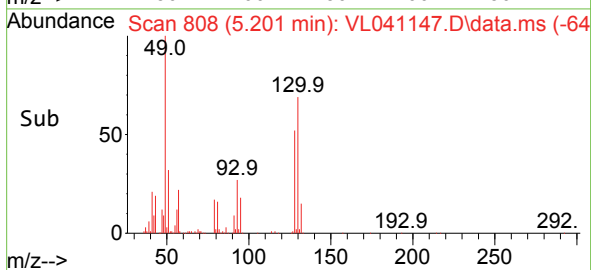
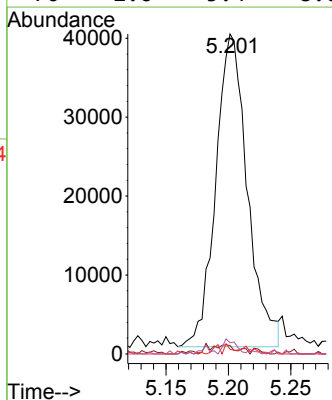
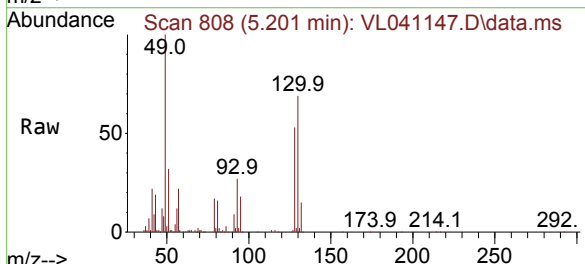
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	12.3	7.7	11.5#
44	82.0	4.9	7.3#

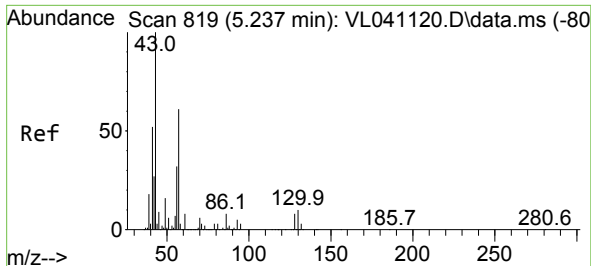


#25
 Ethyl Acetate
 Concen: 0.265 ppbv
 RT: 5.201 min Scan# 808
 Delta R.T. 0.013 min
 Lab File: VL041147.D
 Acq: 8 Apr 2024 12:43

Tgt Ion: 43 Resp: 69867

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	2.7	7.8	11.6#
70	2.6	5.4	8.0#

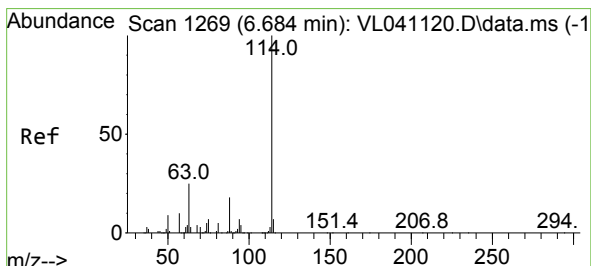
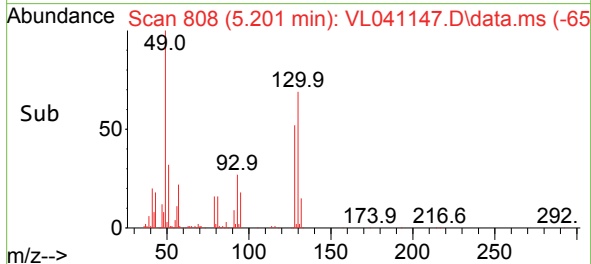
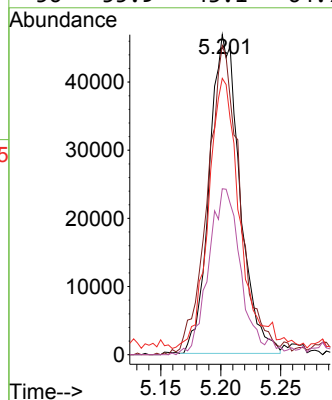
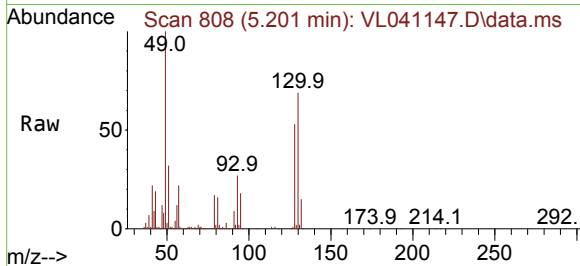




#26
Hexane
Concen: 0.697 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.006 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

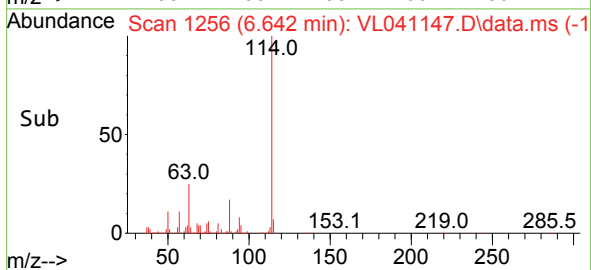
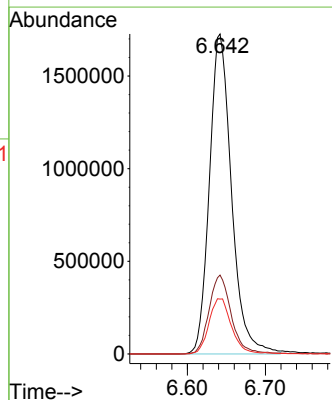
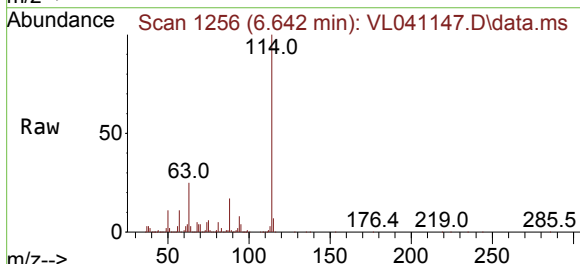
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

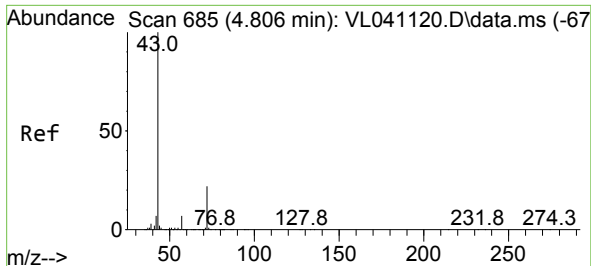
Tgt Ion: 57 Resp: 82474
Ion Ratio Lower Upper
57 100
41 105.7 73.8 110.8
43 90.0 186.2 279.2#
56 55.9 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. 0.003 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion:114 Resp: 3399603
Ion Ratio Lower Upper
114 100
63 25.0 20.9 31.3
88 17.8 14.5 21.7

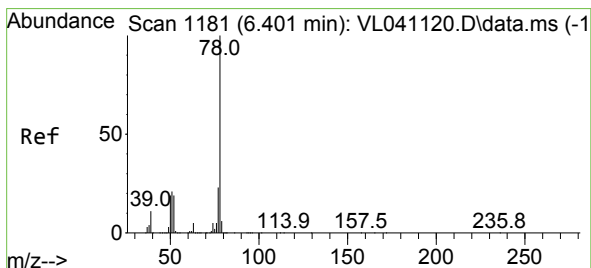
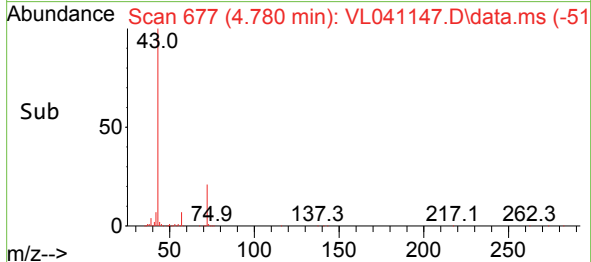
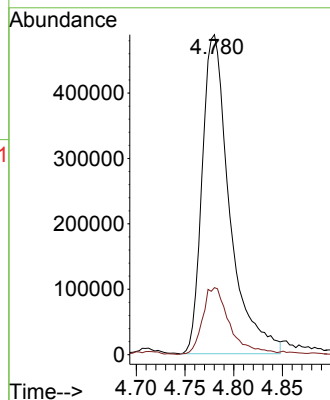
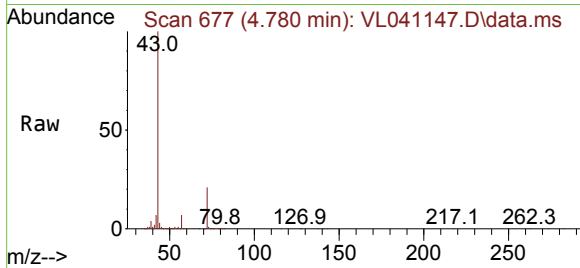




#34
2-Butanone
Concen: 6.642 ppbv
RT: 4.780 min Scan# 61
Delta R.T. 0.009 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

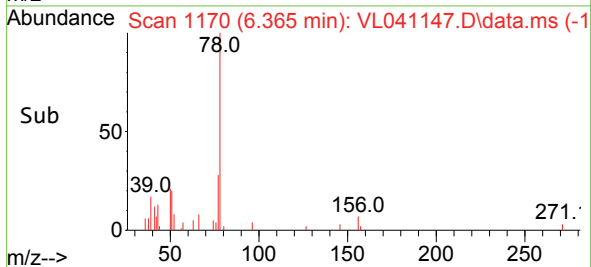
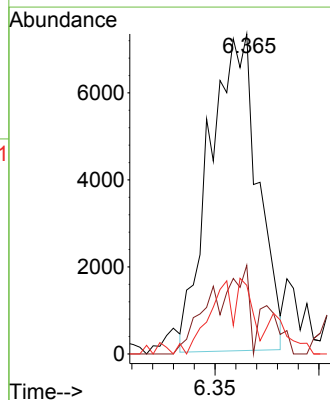
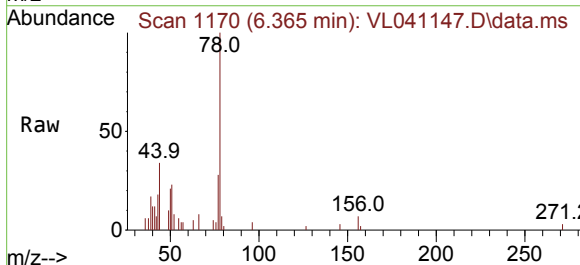
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

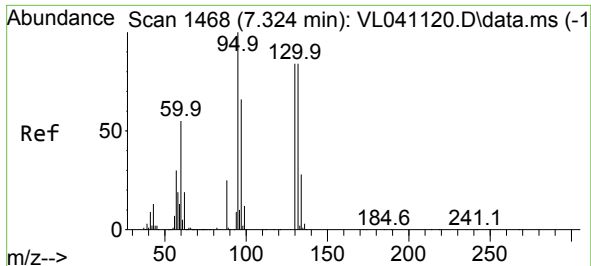
Tgt Ion: 43 Resp: 955540
Ion Ratio Lower Upper
43 100
72 21.4 17.6 26.4



#36
Benzene
Concen: 0.047 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. 0.009 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion: 78 Resp: 11792
Ion Ratio Lower Upper
78 100
77 26.7 18.2 27.4
50 44.4 15.4 23.2#

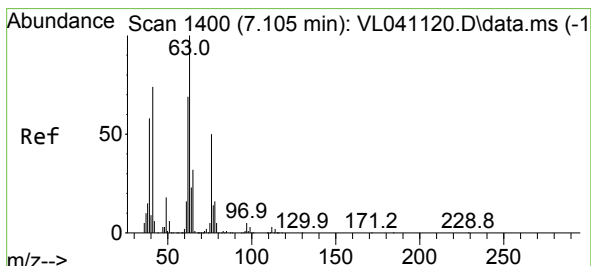
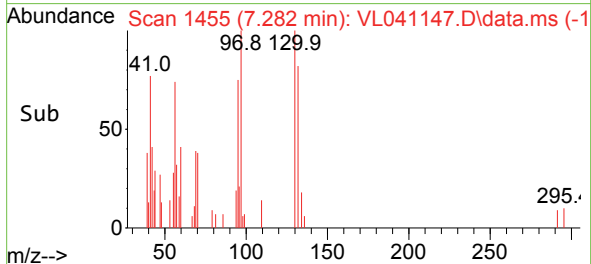
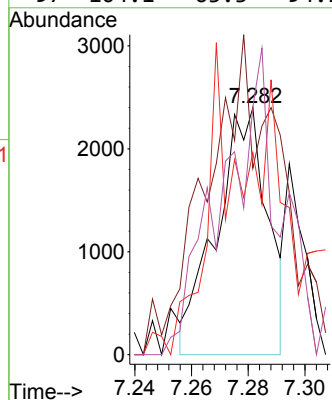
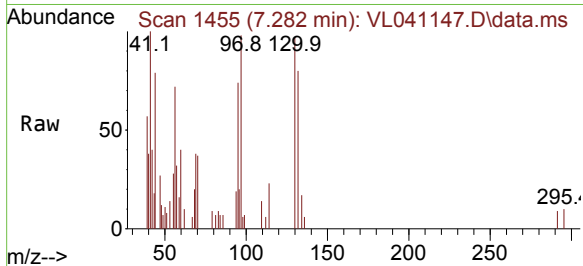




#38
 Trichloroethene
 Concen: 0.033 ppbv
 RT: 7.282 min Scan# 1468
 Delta R.T. 0.006 min
 Lab File: VL041147.D
 Acq: 8 Apr 2024 12:43

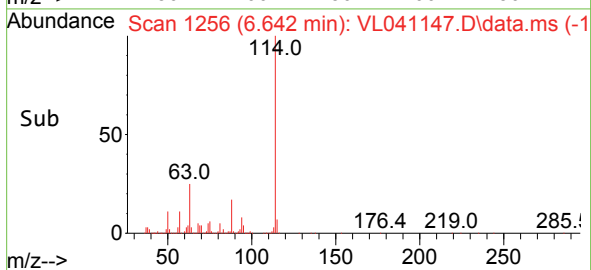
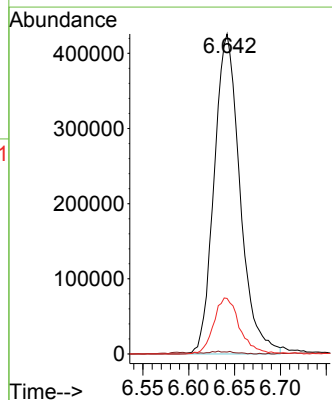
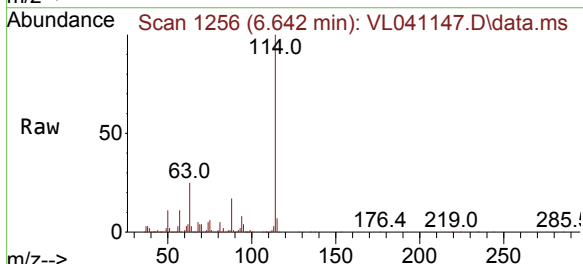
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

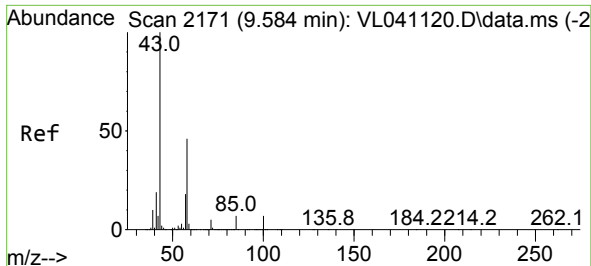
Tgt Ion:130 Resp: 2979
 Ion Ratio Lower Upper
 130 100
 95 72.7 95.4 143.0#
 132 69.4 80.0 120.0#
 97 104.1 63.3 94.9#



#39
 1,2-Dichloropropane
 Concen: 8.476 ppbv
 RT: 6.642 min Scan# 1256
 Delta R.T. -0.418 min
 Lab File: VL041147.D
 Acq: 8 Apr 2024 12:43

Tgt Ion: 63 Resp: 834399
 Ion Ratio Lower Upper
 63 100
 41 0.3 58.7 88.1#
 62 17.3 55.5 83.3#

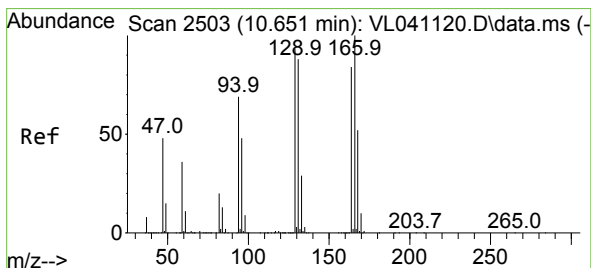
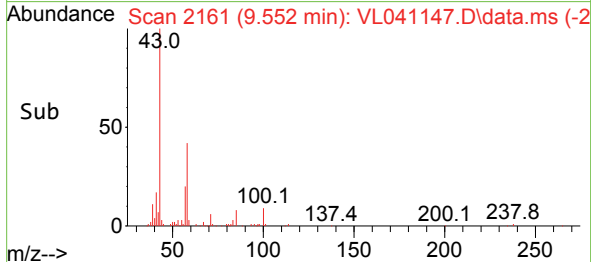
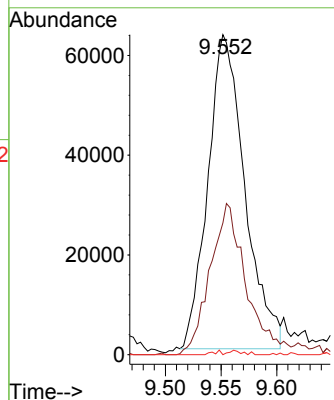
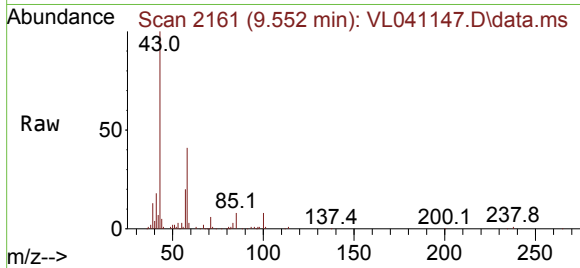




#51
2-Hexanone
Concen: 0.829 ppbv
RT: 9.552 min Scan# 2161
Delta R.T. 0.019 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

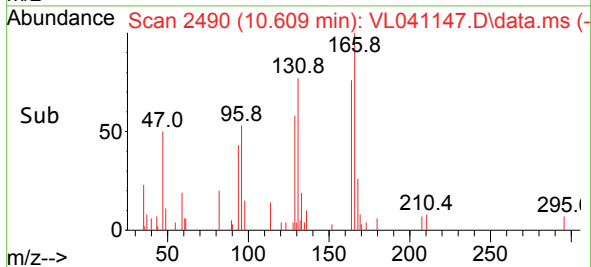
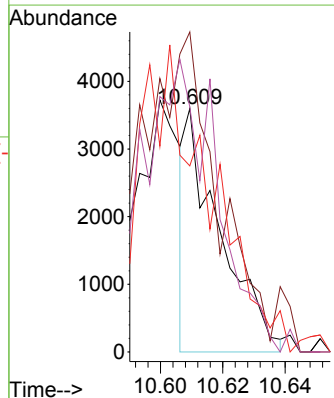
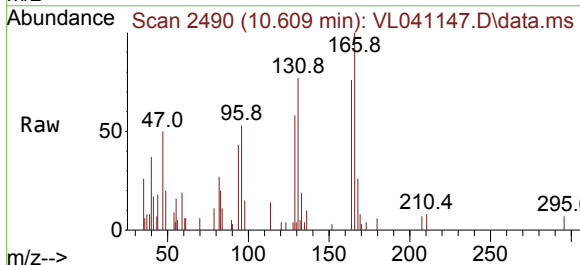
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

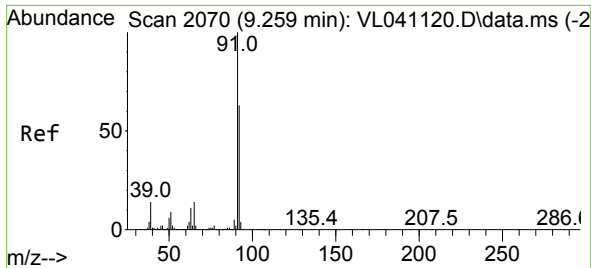
Tgt Ion: 43 Resp: 145596
Ion Ratio Lower Upper
43 100
58 50.3 37.3 55.9
98 0.9 0.3 0.5#



#52
Tetrachloroethene
Concen: 0.035 ppbv
RT: 10.609 min Scan# 2490
Delta R.T. 0.009 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion: 164 Resp: 2754
Ion Ratio Lower Upper
164 100
166 110.4 95.0 142.6
129 68.6 88.7 133.1#
131 106.2 83.2 124.8

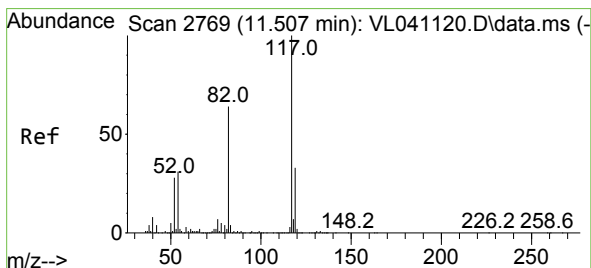
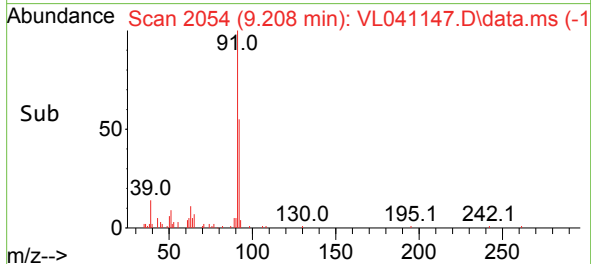
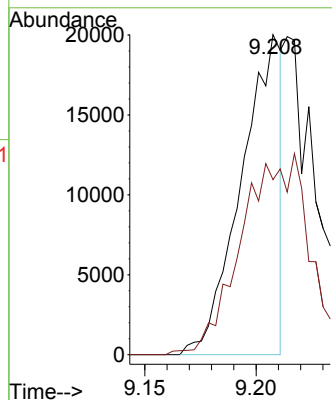
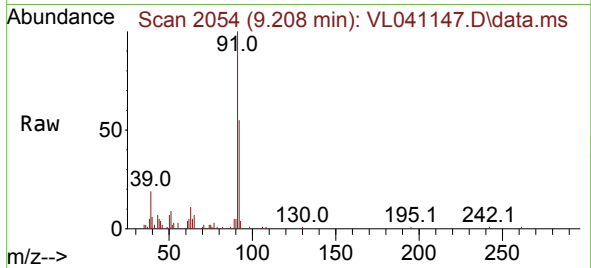




#53
Toluene
Concen: 0.096 ppbv
RT: 9.208 min Scan# 2070
Delta R.T. 0.003 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

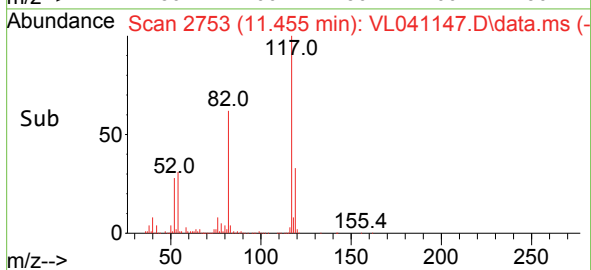
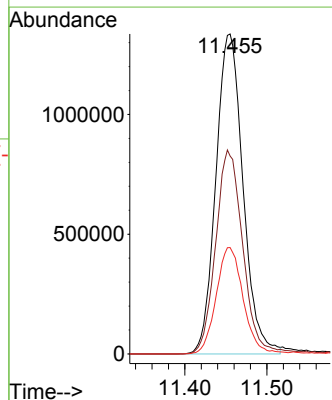
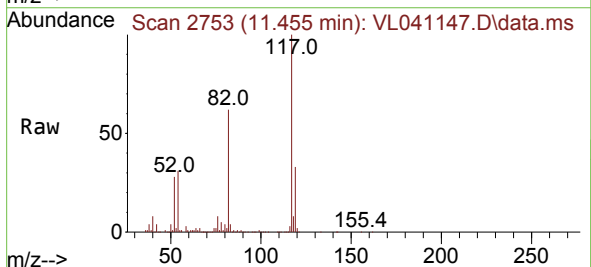
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

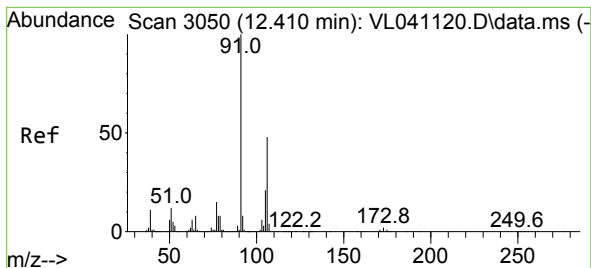
Tgt Ion: 91 Resp: 25105
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. 0.003 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion: 117 Resp: 3072051
Ion Ratio Lower Upper
117 100
82 65.2 51.0 76.6
119 33.9 25.2 37.8

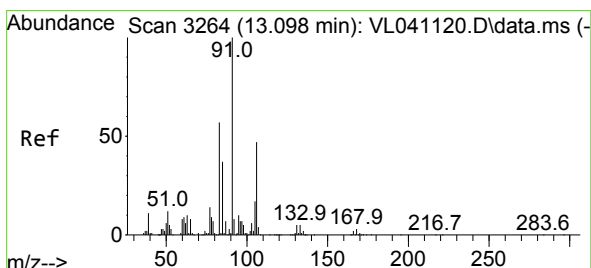
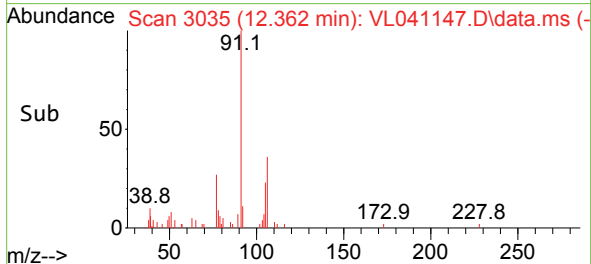
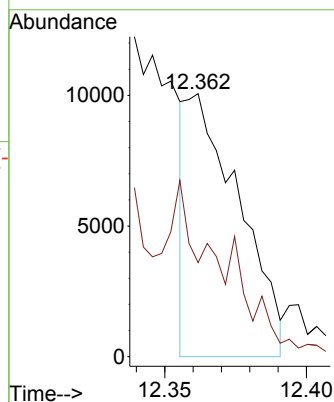
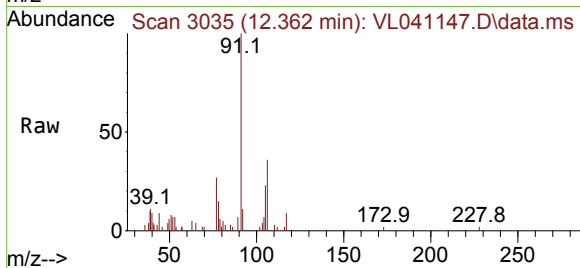




#59
m/p-Xylene
Concen: 0.043 ppbv
RT: 12.362 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

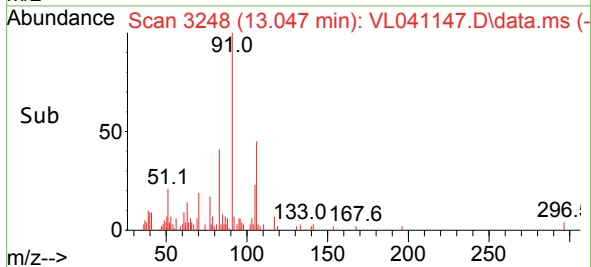
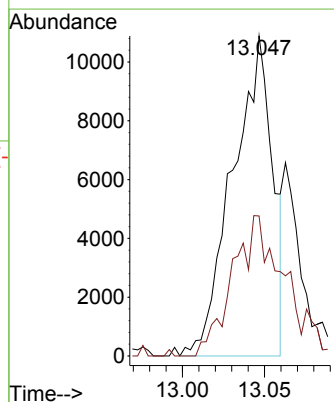
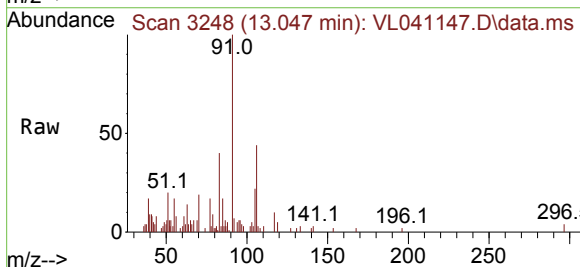
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

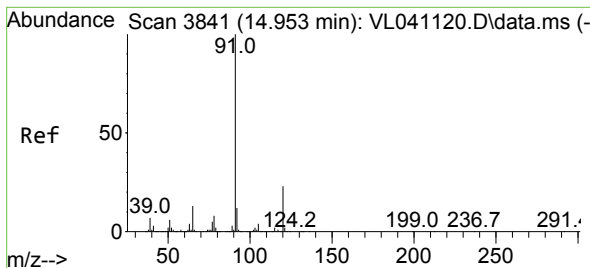
Tgt Ion: 91 Resp: 13068
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#



#60
o-Xylene
Concen: 0.064 ppbv
RT: 13.047 min Scan# 3248
Delta R.T. -0.000 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion: 91 Resp: 18368
Ion Ratio Lower Upper
91 100
106 57.5 22.9 68.5





#64

n-propylbenzene

Concen: 0.045 ppbv

RT: 14.902 min Scan# 3841

Delta R.T. 0.003 min

Lab File: VL041147.D

Acq: 8 Apr 2024 12:43

Instrument :

MSVOA_L

ClientSampleId :

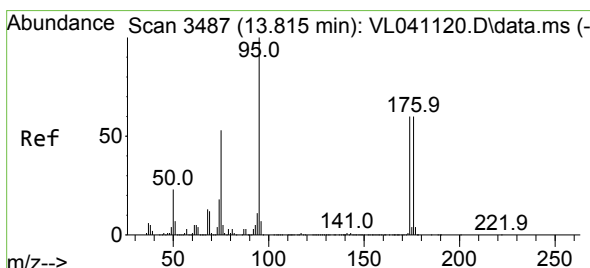
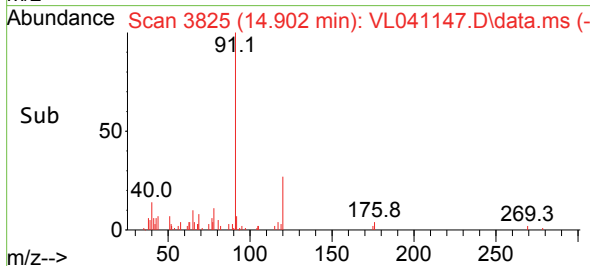
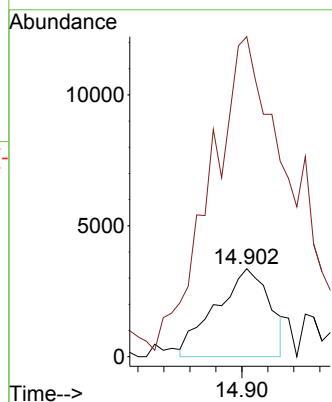
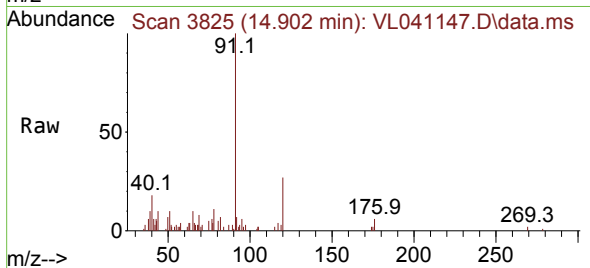
SV2DL

Tgt Ion:120 Resp: 4848

Ion Ratio Lower Upper

120 100

91 627.4 395.0 592.6#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.809 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. 0.006 min

Lab File: VL041147.D

Acq: 8 Apr 2024 12:43

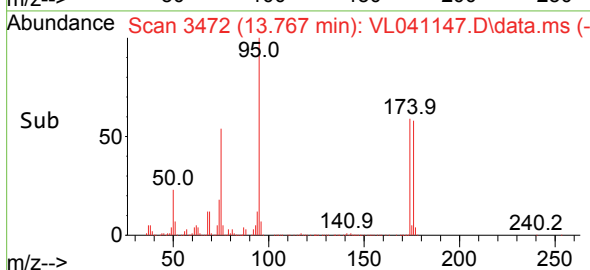
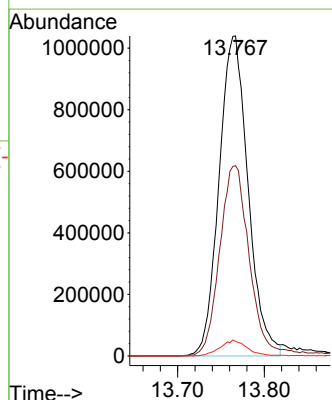
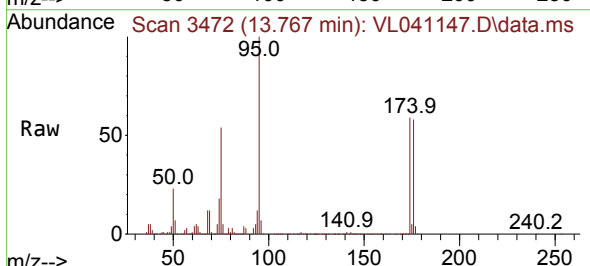
Tgt Ion: 95 Resp: 2423194

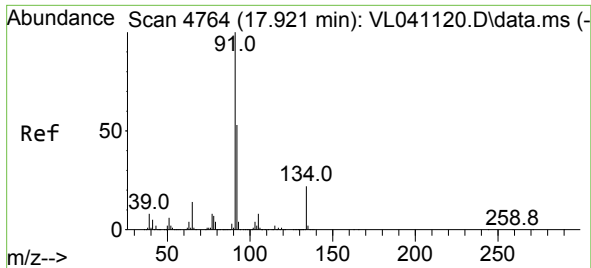
Ion Ratio Lower Upper

95 100

174 62.7 49.3 73.9

175 4.8 3.6 5.4

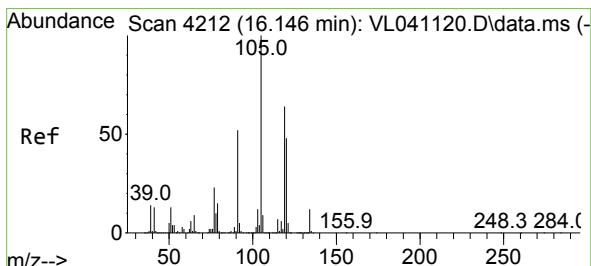
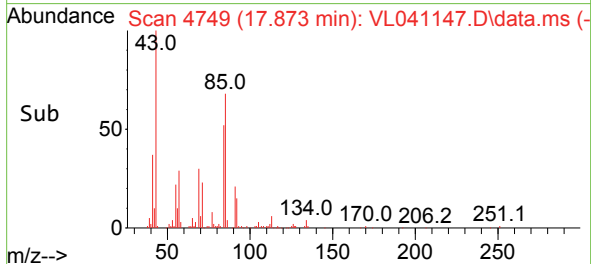
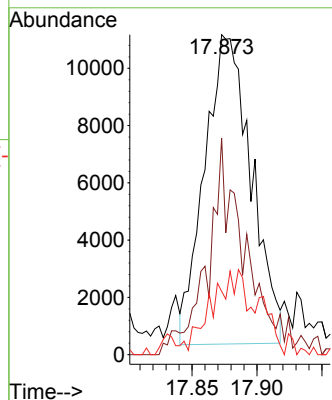
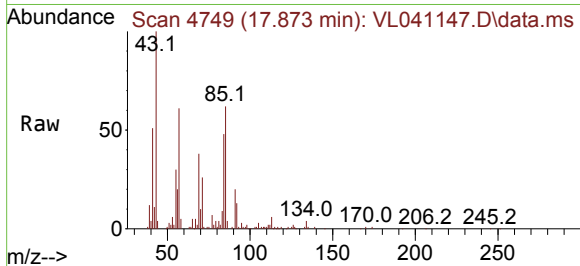




#70
n-Butylbenzene
Concen: 0.059 ppbv
RT: 17.873 min Scan# 4195
Delta R.T. 0.003 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

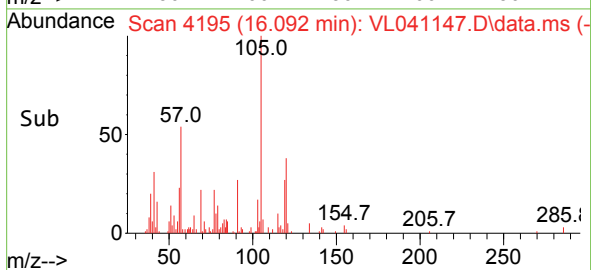
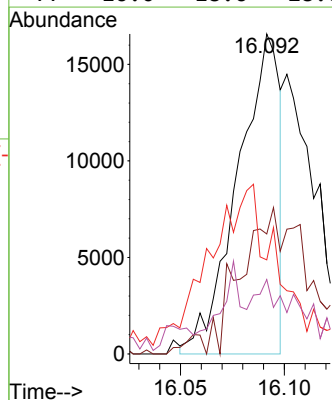
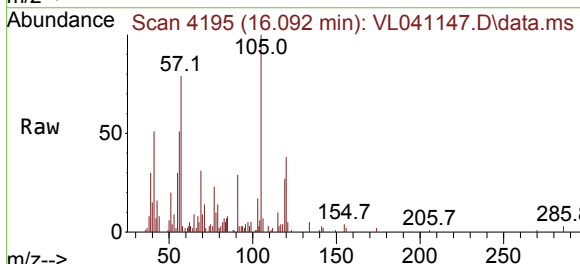
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

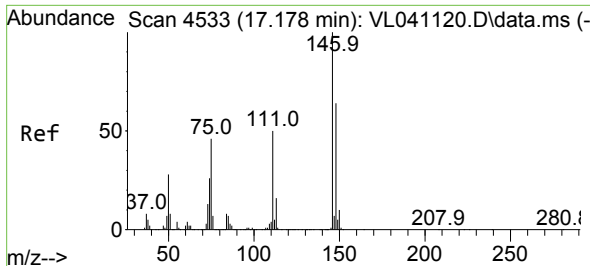
Tgt Ion: 91 Resp: 27001
Ion Ratio Lower Upper
91 100
92 58.3 43.4 65.0
134 31.0 17.1 25.7#



#74
1,2,4-Trimethylbenzene
Concen: 0.072 ppbv
RT: 16.092 min Scan# 4195
Delta R.T. -0.000 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion: 105 Resp: 23209
Ion Ratio Lower Upper
105 100
120 41.0 38.9 58.3
91 21.8 43.0 64.6#
77 16.0 18.6 28.0#

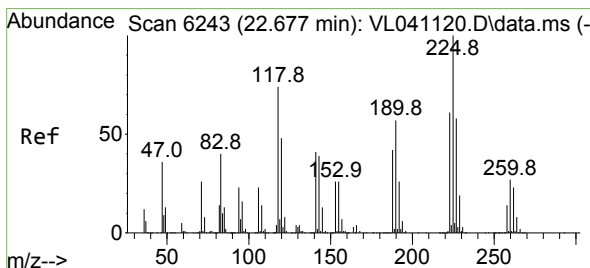
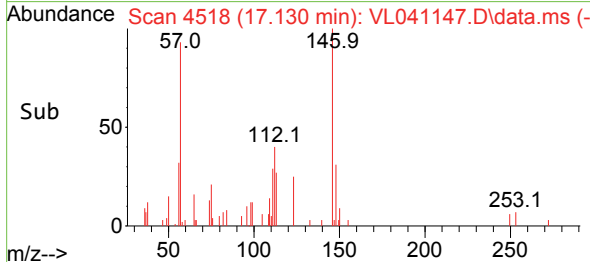
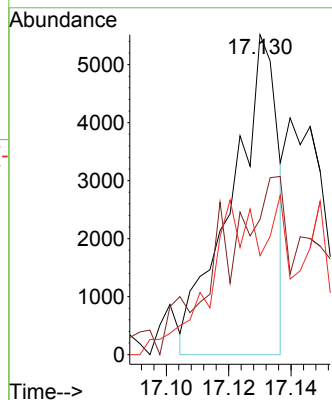
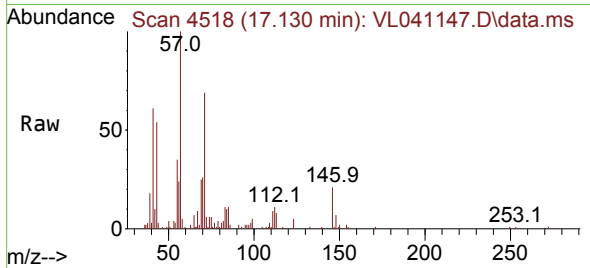




#77
1,2-Dichlorobenzene
Concen: 0.031 ppbv
RT: 17.130 min Scan# 4518
Delta R.T. 0.003 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

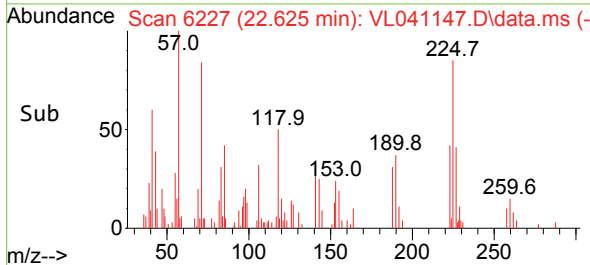
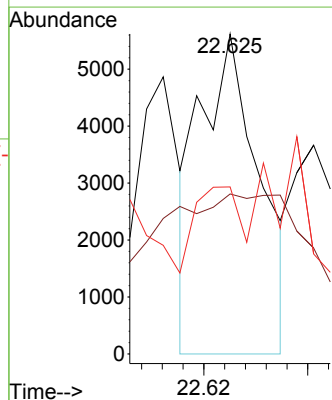
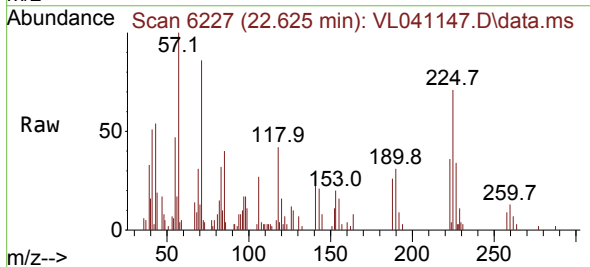
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

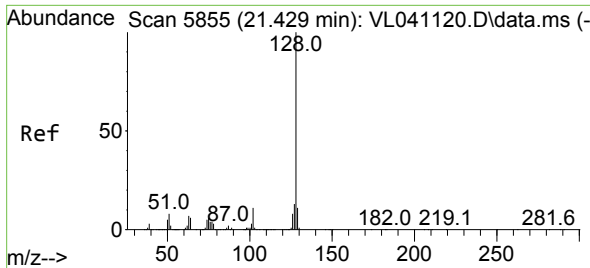
Tgt Ion:146 Resp: 5671
Ion Ratio Lower Upper
146 100
111 0.0 25.1 75.3#
148 0.0 32.6 97.7#



#78
Hexachloro-1,3-Butadiene
Concen: 0.037 ppbv
RT: 22.625 min Scan# 6227
Delta R.T. 0.006 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion:225 Resp: 4470
Ion Ratio Lower Upper
225 100
223 190.2 50.9 76.3#
227 0.0 51.3 76.9#

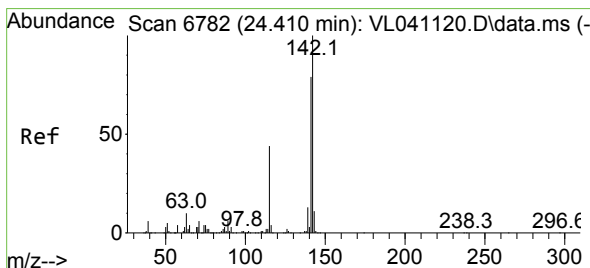
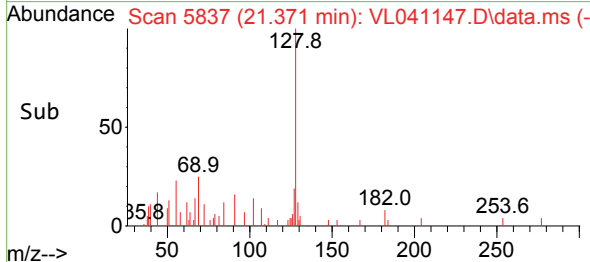
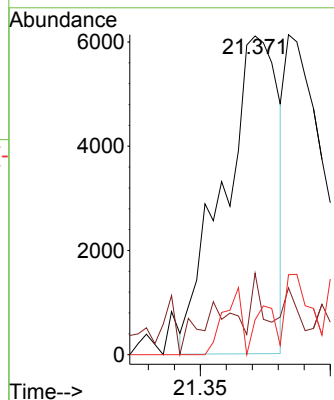
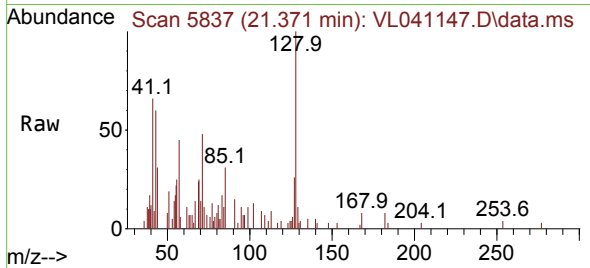




#79
Naphthalene
Concen: 0.043 ppbv
RT: 21.371 min Scan# 5837
Delta R.T. 0.003 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion:128 Resp: 8907
Ion Ratio Lower Upper
128 100
127 27.4 10.6 15.8#
129 11.7 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 0.129 ppbv
RT: 24.374 min Scan# 6771
Delta R.T. 0.009 min
Lab File: VL041147.D
Acq: 8 Apr 2024 12:43

Tgt Ion:142 Resp: 5223
Ion Ratio Lower Upper
142 100
141 115.3 64.4 96.6#
115 56.7 33.5 50.3#

