

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040849.D
 Acq On : 14 Nov 2023 13:56
 Operator : SY/MD
 Sample : 05365-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Quant Time: Nov 22 00:44:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 20 03:50:24 2023
 Response via : Initial Calibration

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

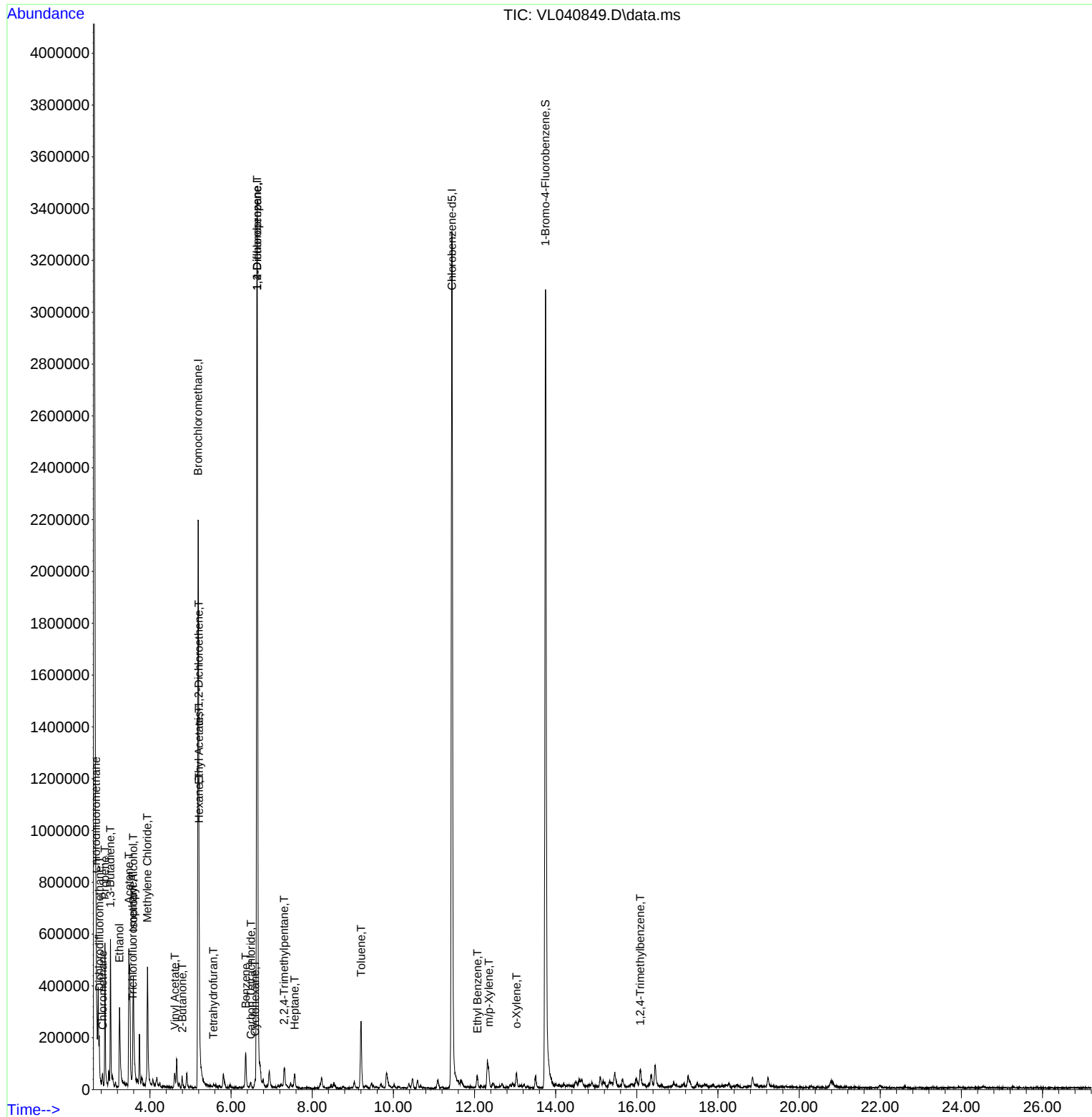
Internal Standards						
1) Bromochloromethane	5.189	49	1007311	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.642	114	2604543	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.442	117	2168467	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	1654180	9.743	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.751	85	97091	0.475	ppbv	99
3) Chlorodifluoromethane	2.674	51	166485	1.035	ppbv #	72
4) Chloromethane	2.835	50	31945	0.552	ppbv	89
9) Propene	2.890	41	130972	2.416	ppbv	91
10) Heptane	7.565	43	22031	0.165	ppbv	87
11) Trichlorofluoromethane	3.575	101	34788	0.222	ppbv	93
13) Ethanol	3.250	45	325180	30.897	ppbv #	100
15) Acetone	3.481	43	602738	5.618	ppbv	96
16) 1,3-Butadiene	3.025	39	68311	1.259	ppbv #	11
19) Isopropyl Alcohol	3.591	45	474046	7.342	ppbv #	98
20) Methylene Chloride	3.938	84	148461	3.353	ppbv	94
23) Vinyl Acetate	4.613	43	25688	0.185	ppbv #	7
25) Ethyl Acetate	5.208	43	128453	0.578	ppbv #	91
26) Hexane	5.211	57	121375	1.235	ppbv #	53
30) Cyclohexane	6.587	84	6229	0.074	ppbv #	1
31) cis-1,2-Dichloroethene	5.205	61	3802	0.039	ppbv #	25
34) 2-Butanone	4.796	43	48931	0.369	ppbv	96
35) Carbon Tetrachloride	6.488	117	5638	0.035	ppbv #	87
36) Benzene	6.362	78	109302	0.517	ppbv	95
39) 1,2-Dichloropropane	6.642	63	662138	7.900	ppbv #	22
41) Tetrahydrofuran	5.565	42	2831	0.035	ppbv #	38
44) 2,2,4-Trimethylpentane	7.311	57	35073	0.100	ppbv #	36
53) Toluene	9.205	91	184751	0.794	ppbv	99
58) Ethyl Benzene	12.073	91	14503	0.051	ppbv	92
59) m/p-Xylene	12.352	91	20257	0.084	ppbv #	32
60) o-Xylene	13.034	91	20348	0.089	ppbv #	20
74) 1,2,4-Trimethylbenzene	16.082	105	22569	0.091	ppbv #	66

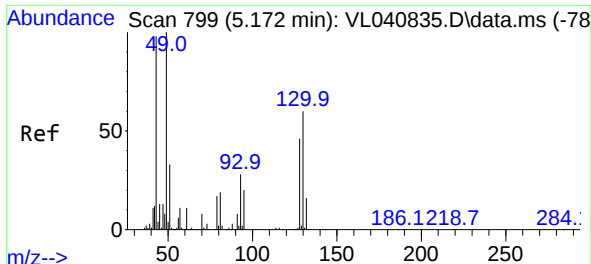
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OA1DUP

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Nov 20 03:50:24 2023
Response via : Initial Calibration

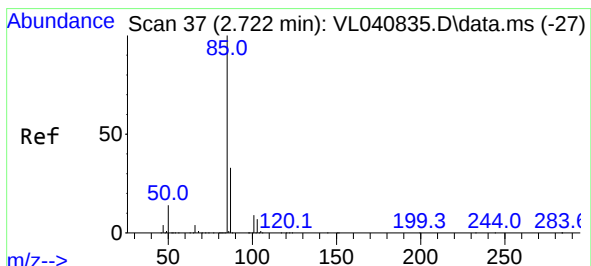
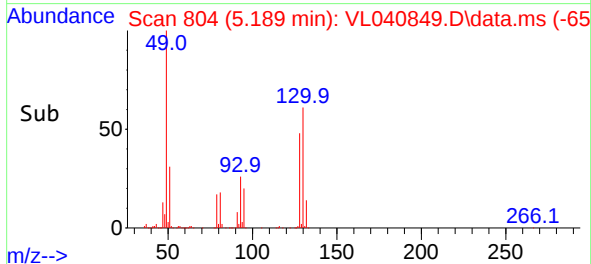
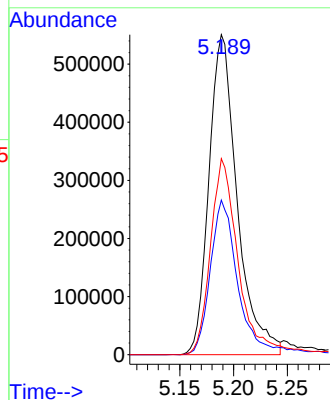
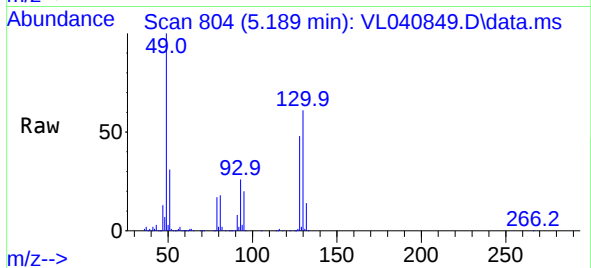




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.022 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

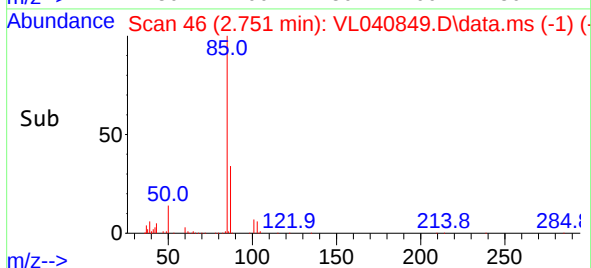
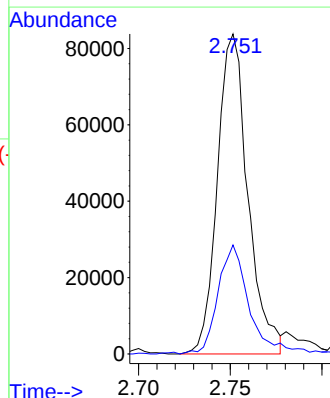
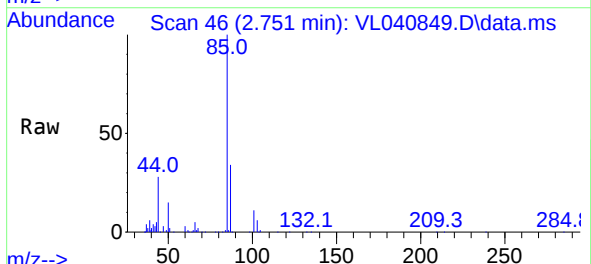
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

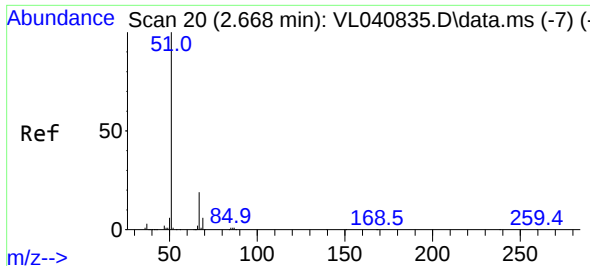
Tgt Ion: 49 Resp: 1007311
Ion Ratio Lower Upper
49 100
128 48.3 23.8 71.2
130 62.1 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.475 ppbv
RT: 2.751 min Scan# 46
Delta R.T. -0.023 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 85 Resp: 97091
Ion Ratio Lower Upper
85 100
87 34.1 26.7 40.1

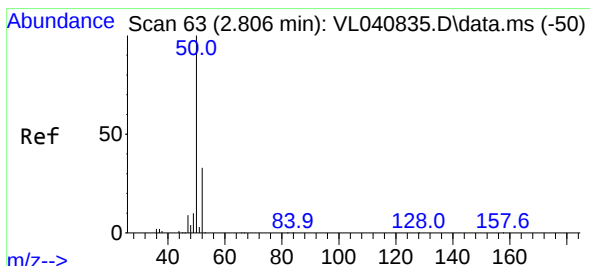
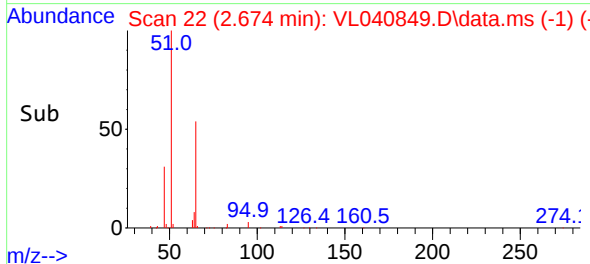
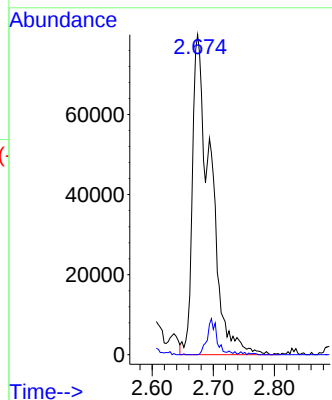
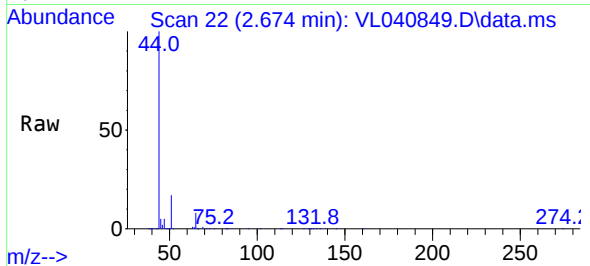




#3
Chlorodifluoromethane
Concen: 1.035 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.045 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

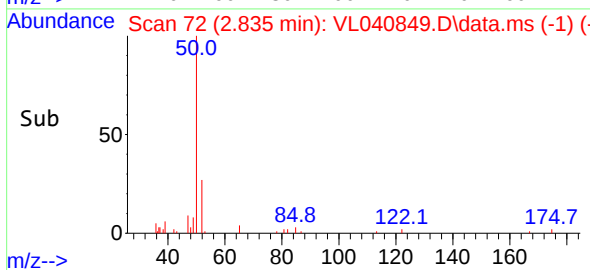
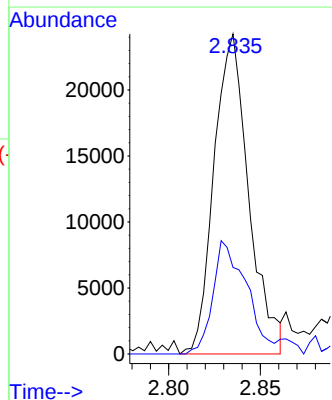
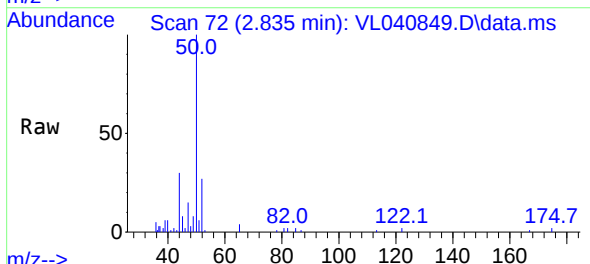
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Tgt Ion: 51 Resp: 166485
Ion Ratio Lower Upper
51 100
67 6.2 15.0 22.4#

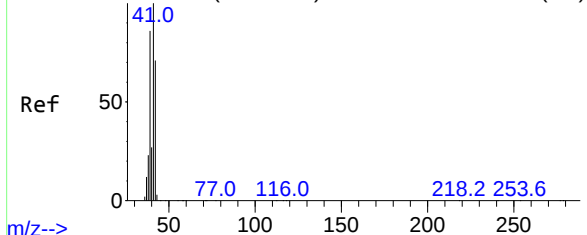


#4
Chloromethane
Concen: 0.552 ppbv
RT: 2.835 min Scan# 72
Delta R.T. -0.019 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 50 Resp: 31945
Ion Ratio Lower Upper
50 100
52 27.1 26.5 39.7



Abundance Scan 26 (2.687 min): VL040835.D\data.ms (-18)



#9

Propene

Concen: 2.416 ppbv

RT: 2.890 min Scan# 89

Delta R.T. 0.151 min

Lab File: VL040849.D

Acq: 14 Nov 2023 13:56

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

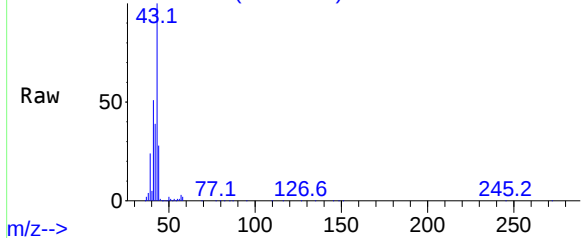
Tgt Ion: 41 Resp: 130972

Ion Ratio Lower Upper

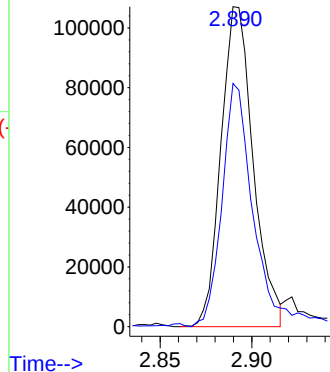
41 100

42 78.1 56.5 84.7

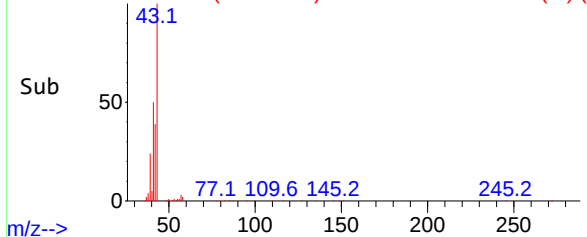
Abundance Scan 89 (2.890 min): VL040849.D\data.ms



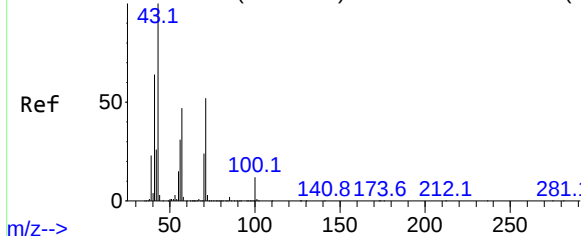
Abundance



Abundance Scan 89 (2.890 min): VL040849.D\data.ms (-1)



Abundance Scan 1540 (7.555 min): VL040835.D\data.ms (-1)



#10

Heptane

Concen: 0.165 ppbv

RT: 7.565 min Scan# 1543

Delta R.T. -0.023 min

Lab File: VL040849.D

Acq: 14 Nov 2023 13:56

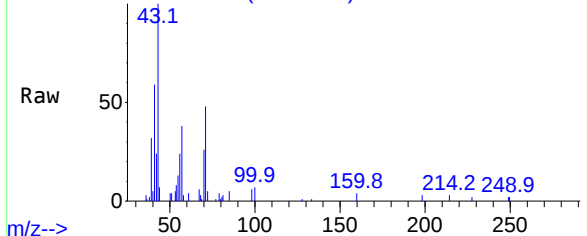
Tgt Ion: 43 Resp: 22031

Ion Ratio Lower Upper

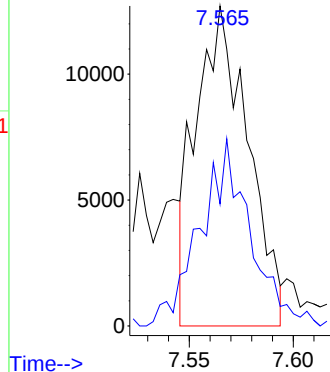
43 100

57 57.8 39.4 59.0

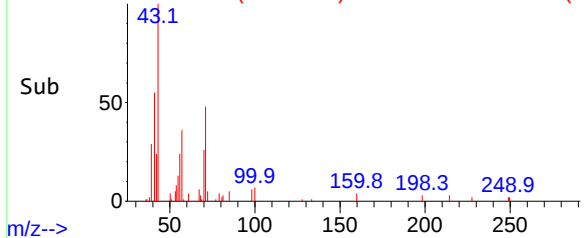
Abundance Scan 1543 (7.565 min): VL040849.D\data.ms

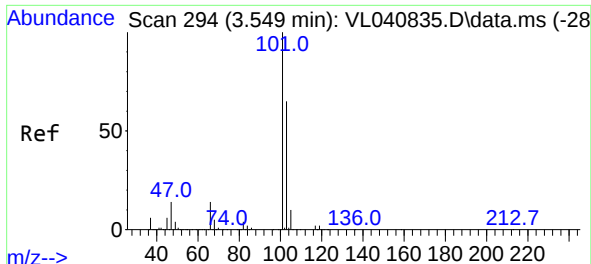


Abundance



Abundance Scan 1543 (7.565 min): VL040849.D\data.ms (-1)

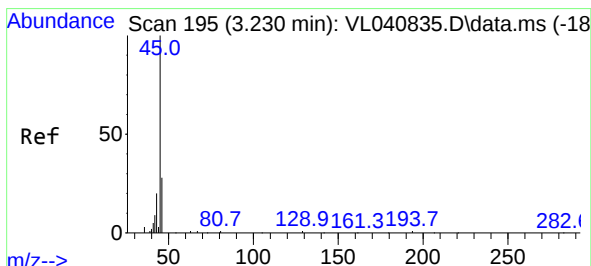
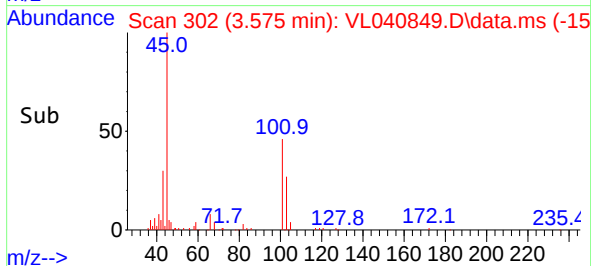
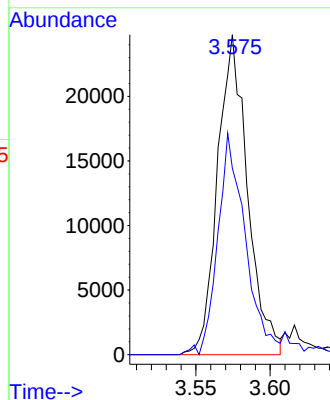
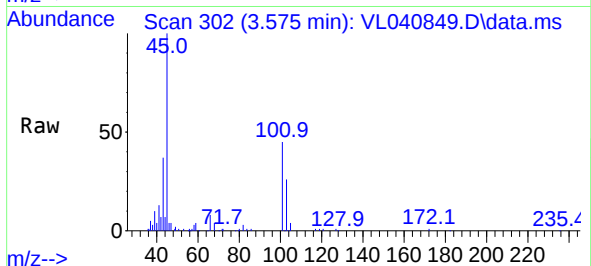




#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 3.575 min Scan# 302
Delta R.T. -0.019 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

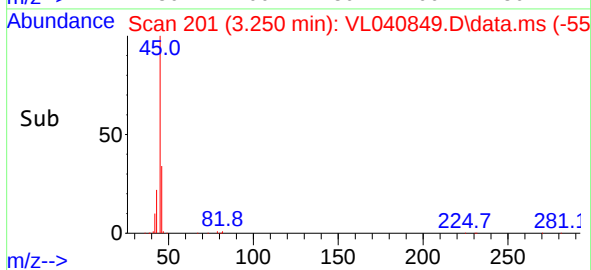
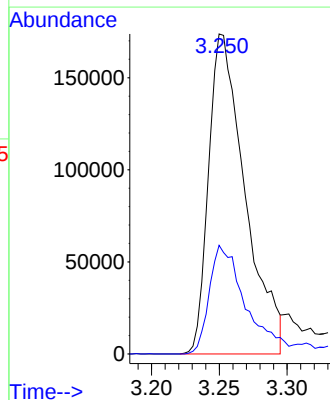
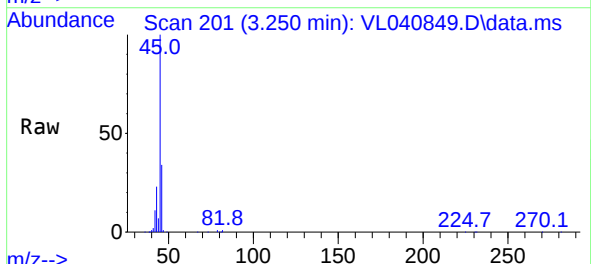
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

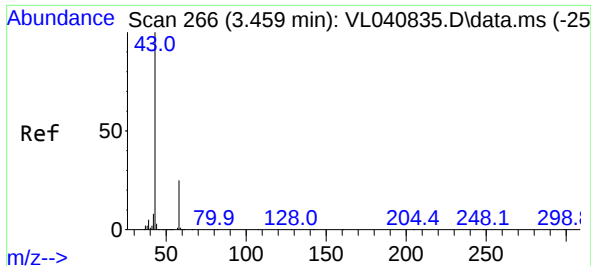
Tgt Ion:101 Resp: 34788
Ion Ratio Lower Upper
101 100
103 59.2 51.8 77.8



#13
Ethanol
Concen: 30.897 ppbv
RT: 3.250 min Scan# 201
Delta R.T. -0.029 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 45 Resp: 325180
Ion Ratio Lower Upper
45 100
46 37.2 0.0 0.0#

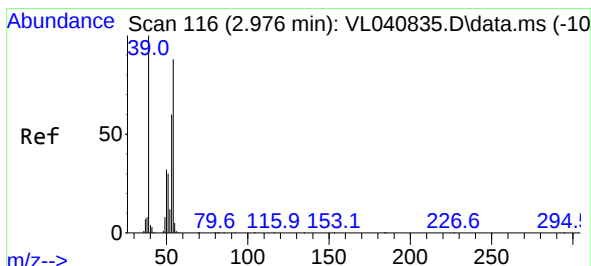
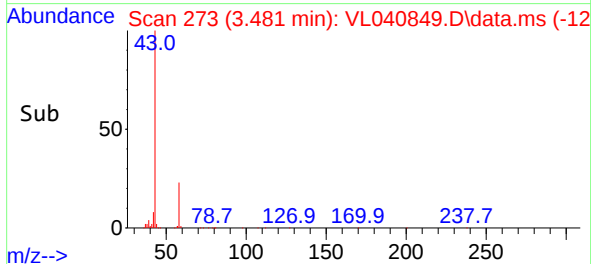
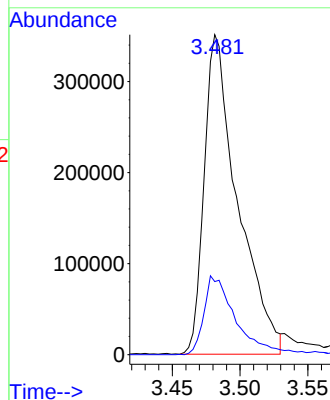
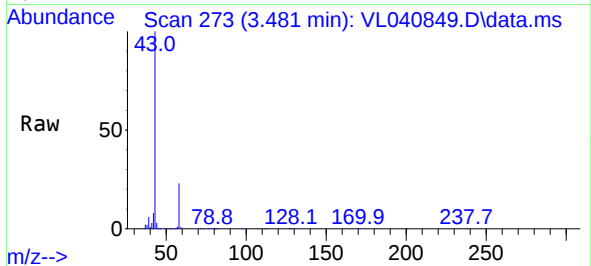




#15
Acetone
Concen: 5.618 ppbv
RT: 3.481 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

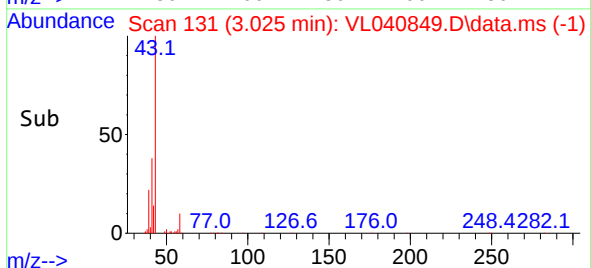
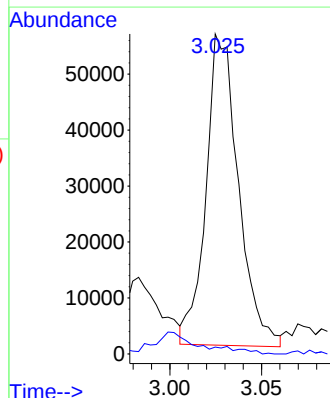
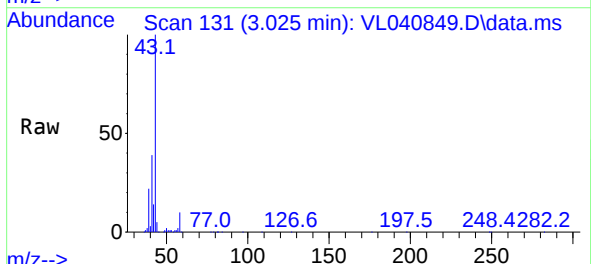
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

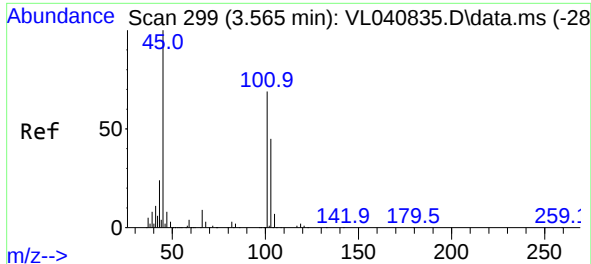
Tgt Ion: 43 Resp: 602738
Ion Ratio Lower Upper
43 100
58 24.0 20.9 31.3



#16
1,3-Butadiene
Concen: 1.259 ppbv
RT: 3.025 min Scan# 131
Delta R.T. -0.000 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 39 Resp: 68311
Ion Ratio Lower Upper
39 100
54 0.0 61.8 92.6#





#19

Isopropyl Alcohol

Concen: 7.342 ppbv

RT: 3.591 min Scan# 307

Delta R.T. -0.019 min

Lab File: VL040849.D

Acq: 14 Nov 2023 13:56

Instrument :

MSVOA_L

ClientSampleId :

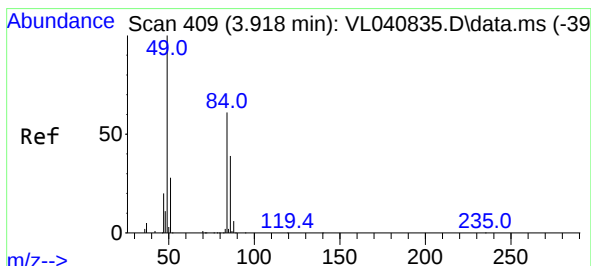
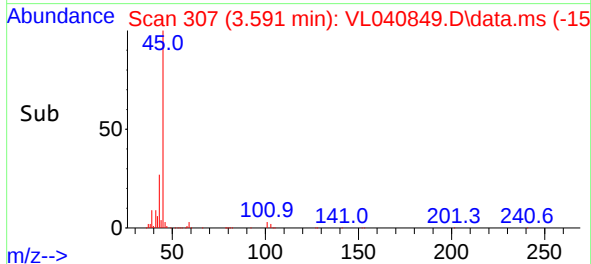
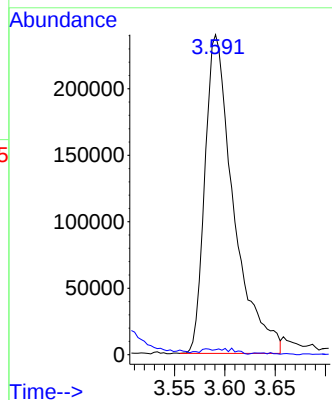
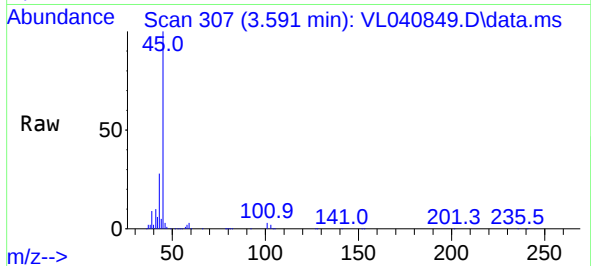
OA1DUP

Tgt Ion: 45 Resp: 474046

Ion Ratio Lower Upper

45 100

58 2.6 1.6 2.4#



#20

Methylene Chloride

Concen: 3.353 ppbv

RT: 3.938 min Scan# 415

Delta R.T. -0.026 min

Lab File: VL040849.D

Acq: 14 Nov 2023 13:56

Tgt Ion: 84 Resp: 148461

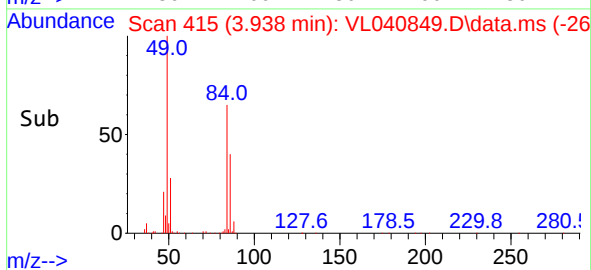
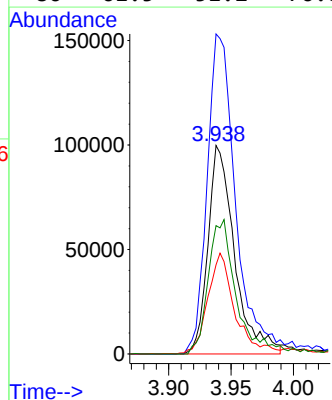
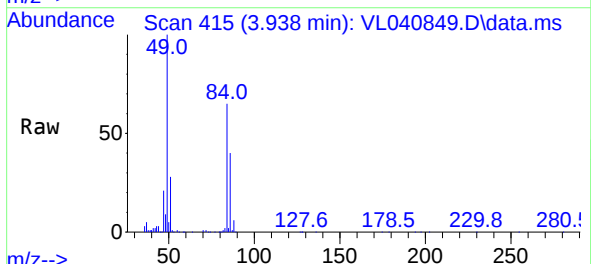
Ion Ratio Lower Upper

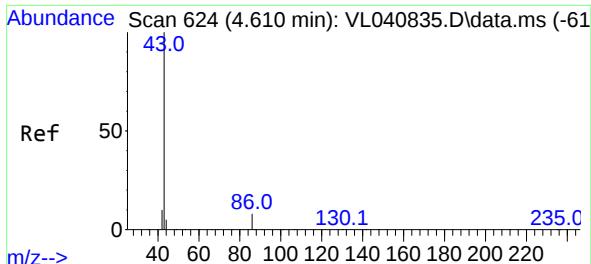
84 100

49 153.2 131.0 196.4

51 42.3 36.9 55.3

86 61.5 51.2 76.8



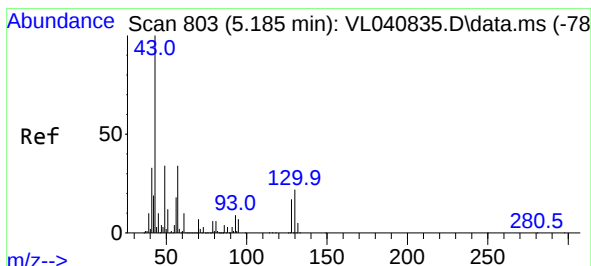
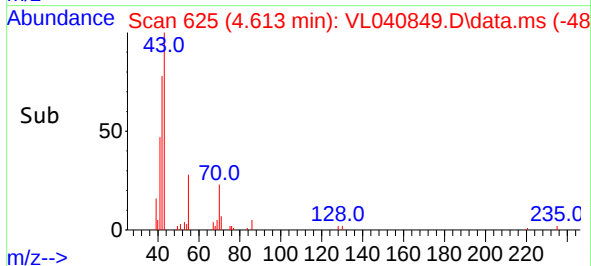
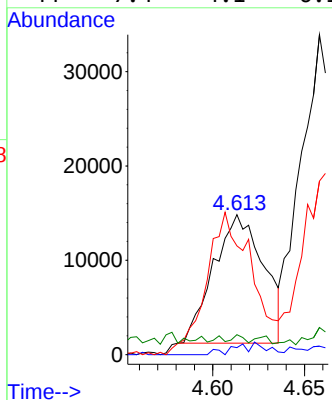
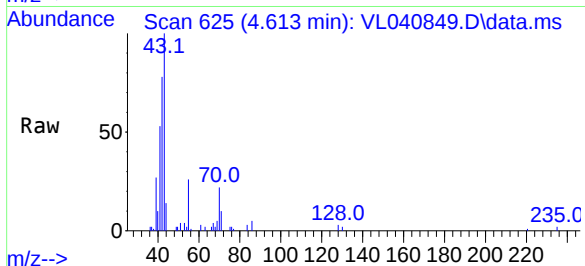


#23
Vinyl Acetate
Concen: 0.185 ppbv
RT: 4.613 min Scan# 61
Delta R.T. -0.035 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Instrument :
MSVOA_1
ClientSampleId :
OA1DUP

Tgt Ion: 43 Resp: 25688

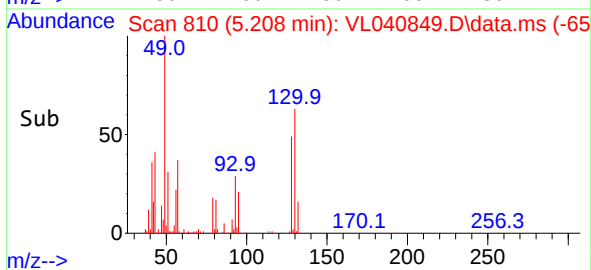
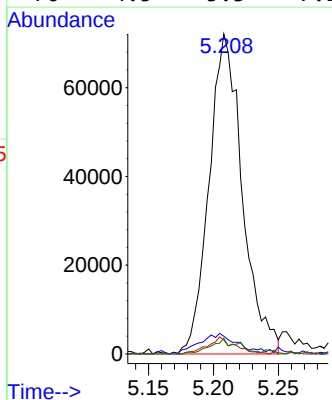
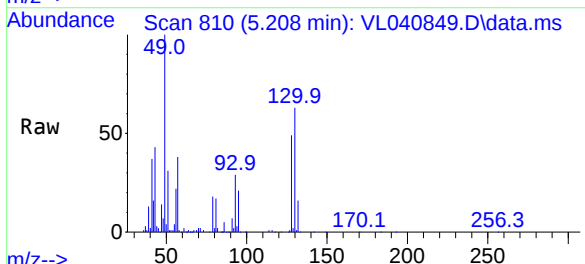
Ion	Ratio	Lower	Upper
43	100		
86	6.0	5.5	8.3
42	83.2	8.2	12.2#
44	7.4	4.1	6.1#

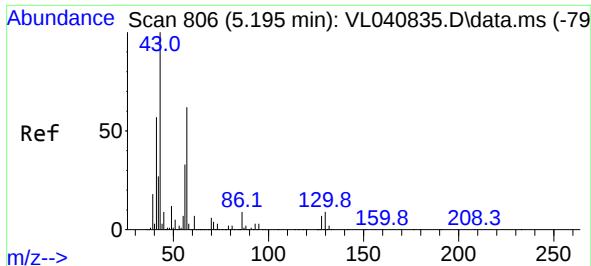


#25
Ethyl Acetate
Concen: 0.578 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.013 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 43 Resp: 128453

Ion	Ratio	Lower	Upper
43	100		
45	7.6	8.1	12.1#
61	4.4	7.8	11.6#
70	4.5	5.3	7.9#

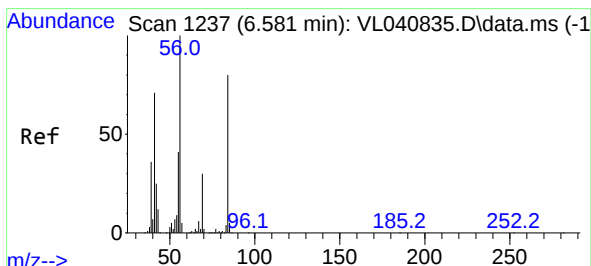
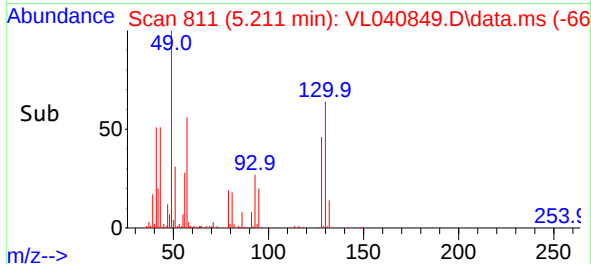
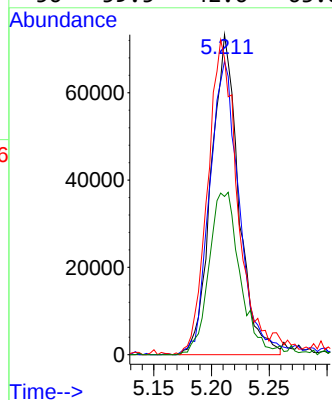
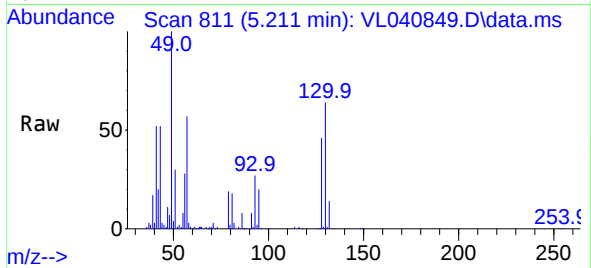




#26
Hexane
Concen: 1.235 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.019 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

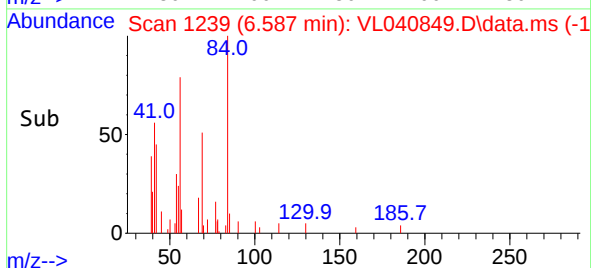
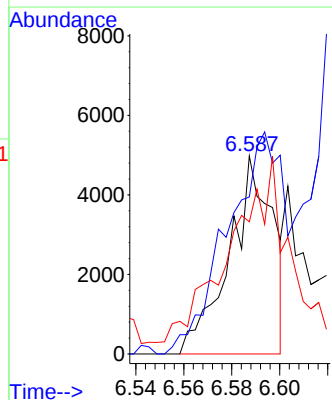
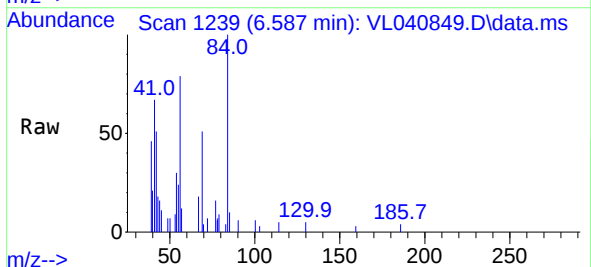
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

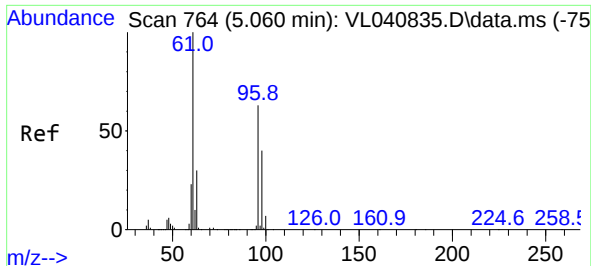
Tgt Ion: 57 Resp: 121375
Ion Ratio Lower Upper
57 100
41 100.1 75.4 113.0
43 112.6 185.9 278.9#
56 59.5 42.6 63.8



#30
Cyclohexane
Concen: 0.074 ppbv
RT: 6.587 min Scan# 1239
Delta R.T. -0.026 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 84 Resp: 6229
Ion Ratio Lower Upper
84 100
56 0.0 109.3 163.9#
41 0.0 71.4 107.2#

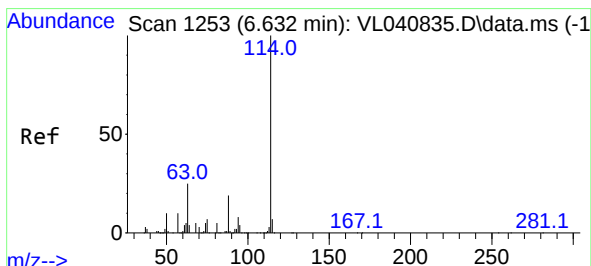
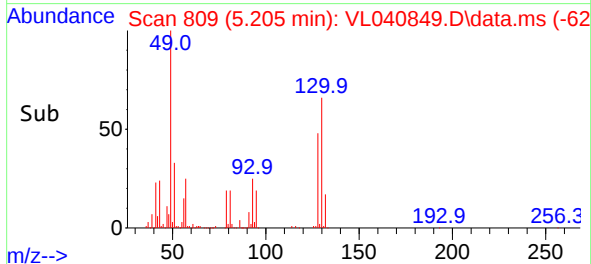
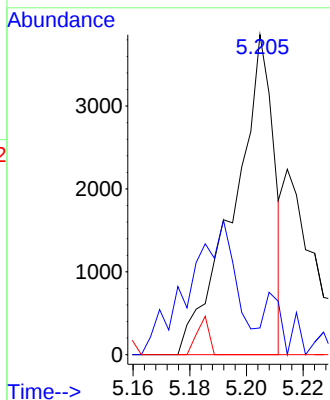
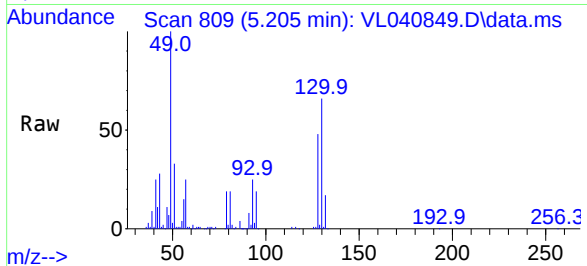




#31
cis-1,2-Dichloroethene
Concen: 0.039 ppbv
RT: 5.205 min Scan# 809
Delta R.T. 0.106 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

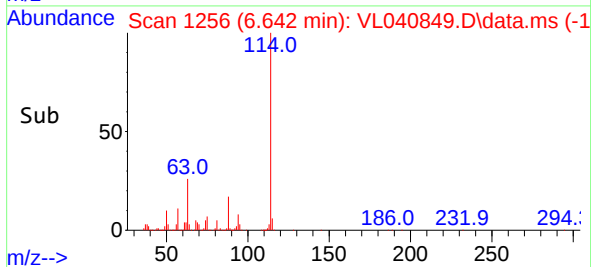
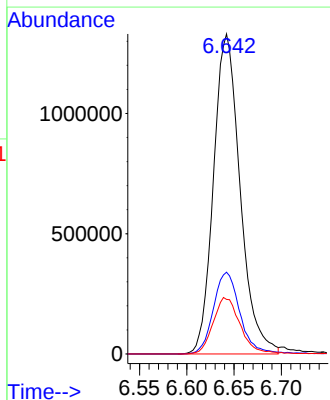
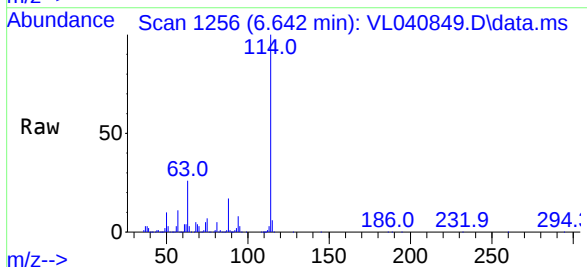
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

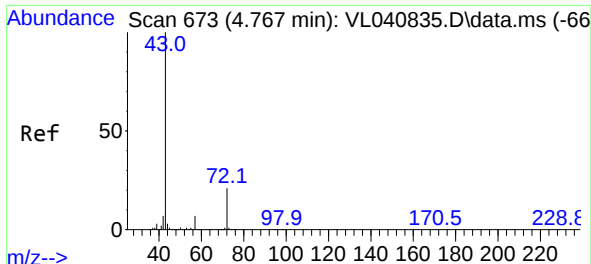
Tgt Ion: 61 Resp: 3802
Ion Ratio Lower Upper
61 100
96 0.0 50.5 75.7#
98 0.0 31.9 47.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.023 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 114 Resp: 2604543
Ion Ratio Lower Upper
114 100
63 25.8 20.9 31.3
88 18.2 14.3 21.5

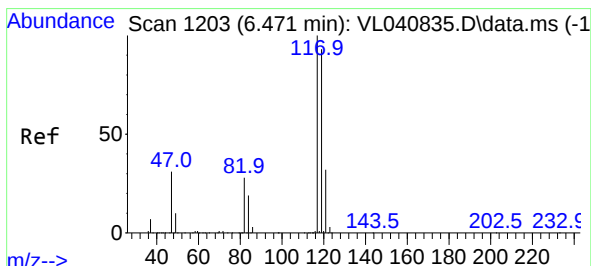
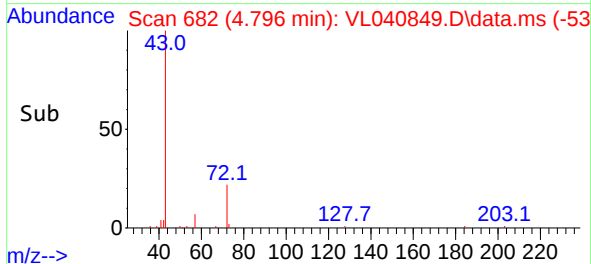
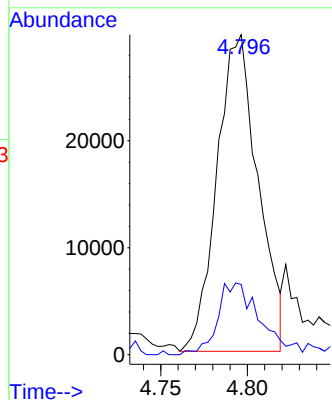
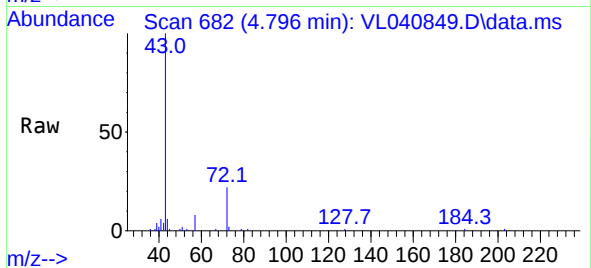




#34
2-Butanone
Concen: 0.369 ppbv
RT: 4.796 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

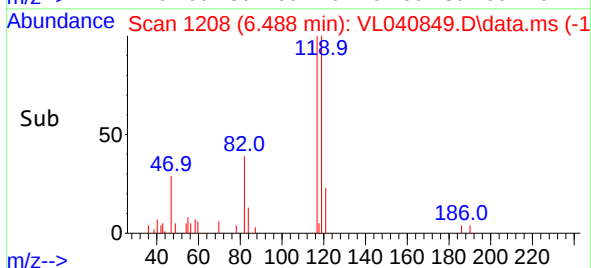
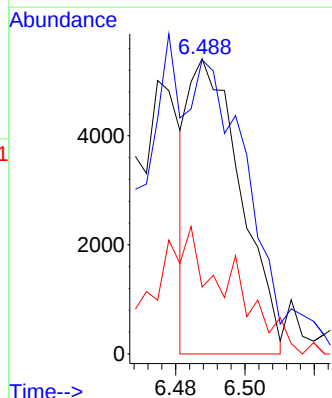
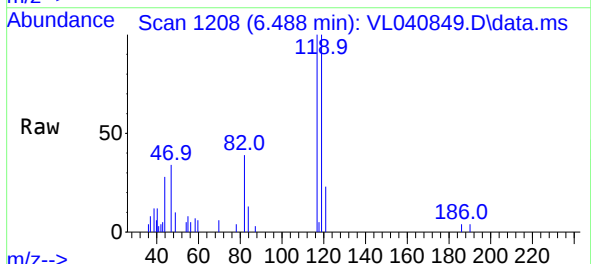
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

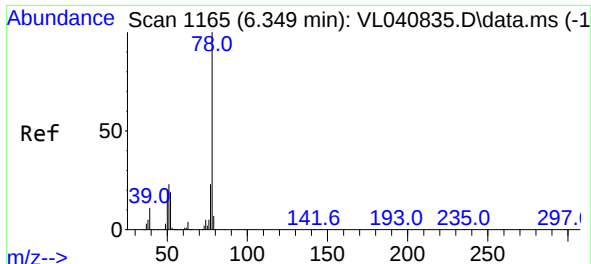
Tgt Ion: 43 Resp: 48931
Ion Ratio Lower Upper
43 100
72 23.3 17.2 25.8



#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 6.488 min Scan# 1208
Delta R.T. -0.019 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 117 Resp: 5638
Ion Ratio Lower Upper
117 100
119 88.9 74.7 112.1
121 10.3 25.5 38.3#

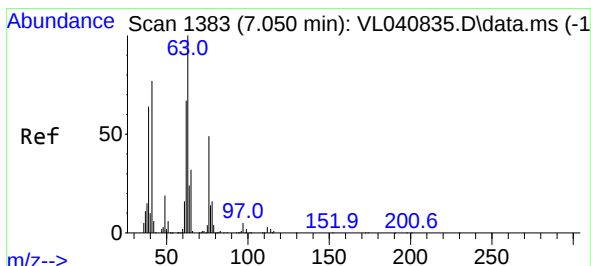
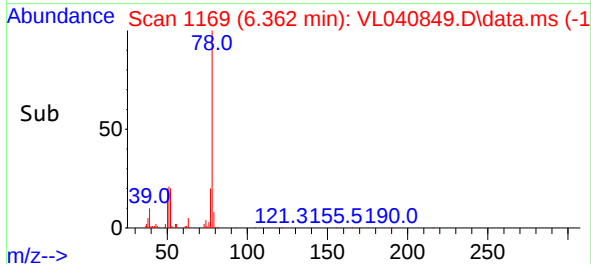
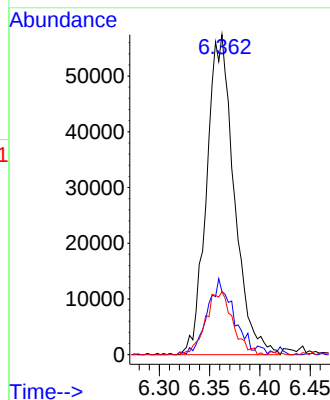
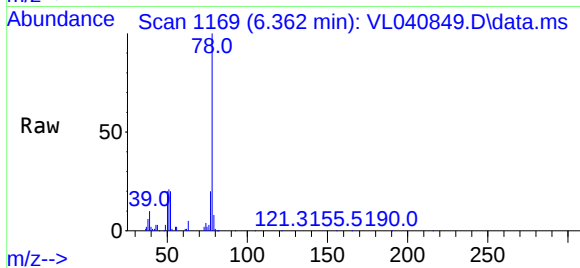




#36
Benzene
Concen: 0.517 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. -0.023 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

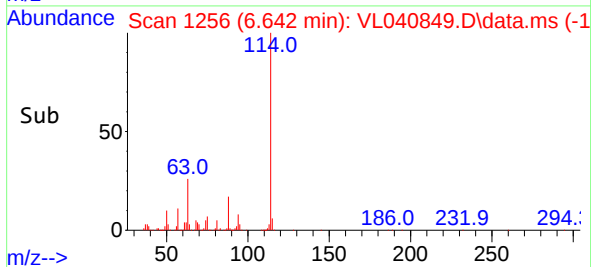
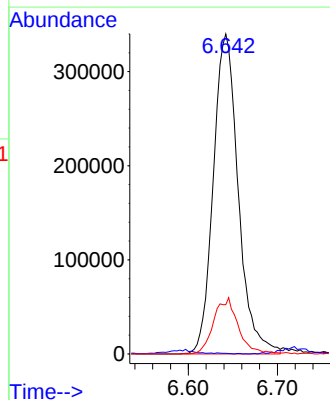
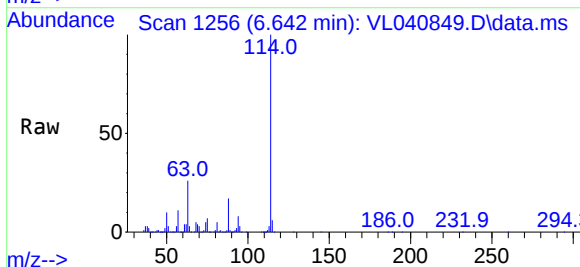
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

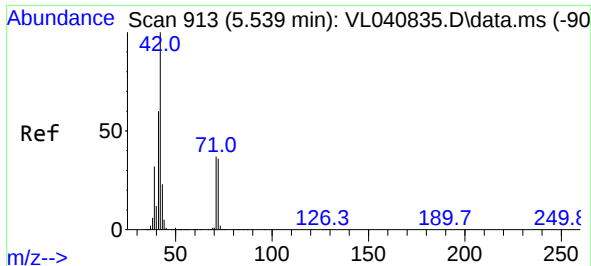
Tgt Ion: 78 Resp: 109302
Ion Ratio Lower Upper
78 100
77 18.9 18.4 27.6
50 19.3 16.2 24.2



#39
1,2-Dichloropropane
Concen: 7.900 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.441 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 63 Resp: 662138
Ion Ratio Lower Upper
63 100
41 0.0 61.5 92.3#
62 15.4 53.9 80.9#

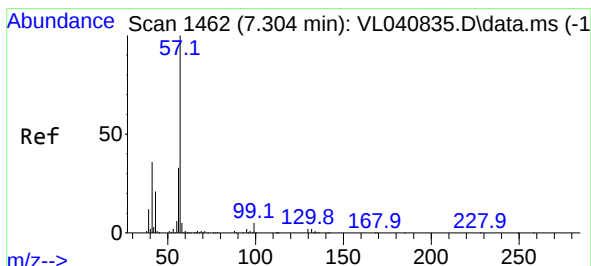
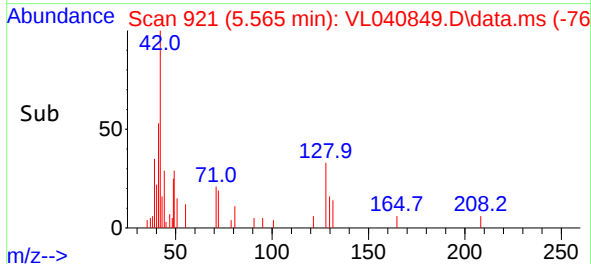
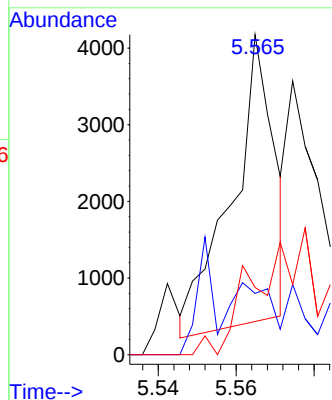
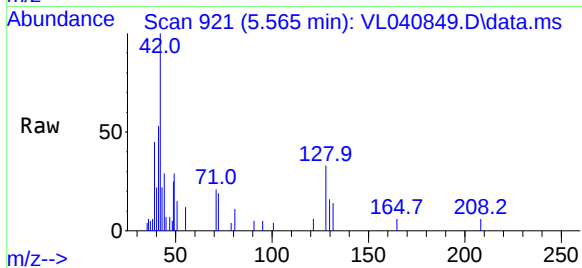




#41
Tetrahydrofuran
Concen: 0.035 ppbv
RT: 5.565 min Scan# 913
Delta R.T. -0.010 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

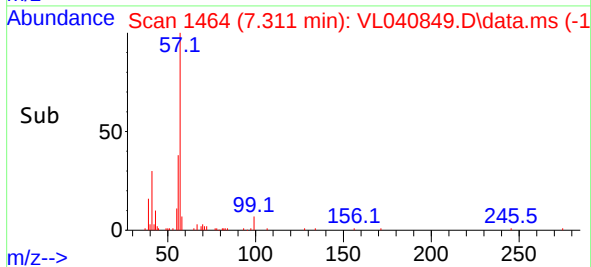
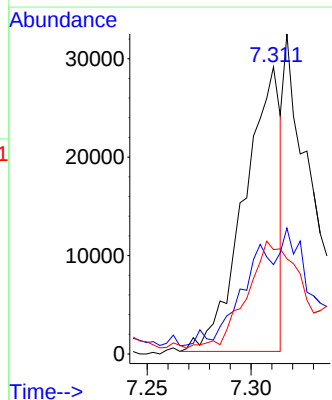
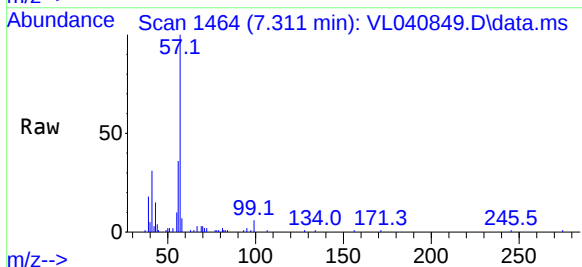
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

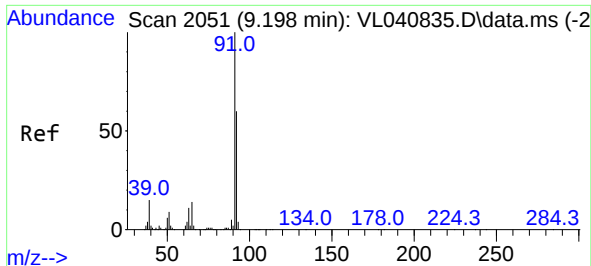
Tgt Ion: 42 Resp: 2831
Ion Ratio Lower Upper
42 100
72 76.1 30.8 46.2#
71 0.0 30.0 45.0#



#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv
RT: 7.311 min Scan# 1464
Delta R.T. -0.023 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 57 Resp: 35073
Ion Ratio Lower Upper
57 100
41 0.0 29.0 43.6#
56 69.0 25.2 37.8#

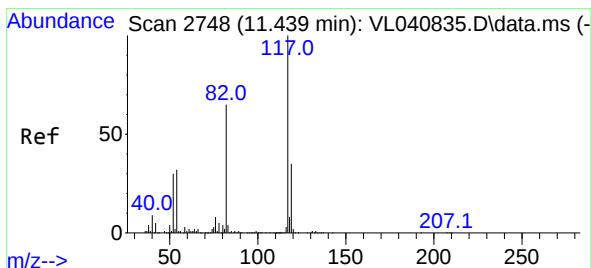
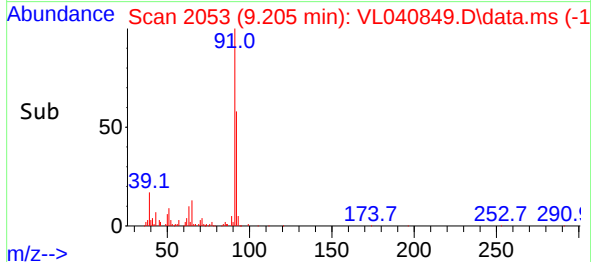
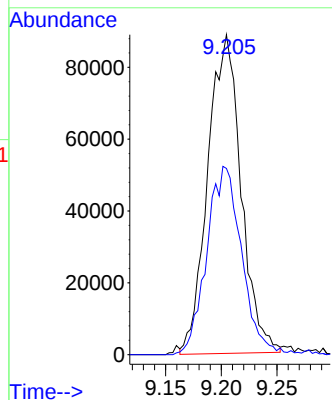
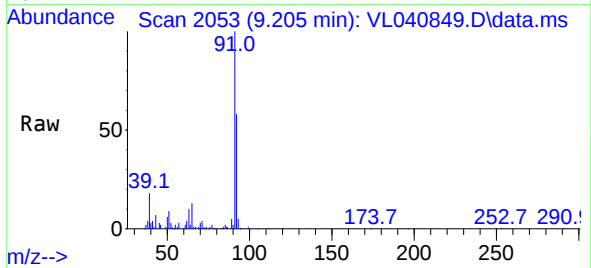




#53
Toluene
Concen: 0.794 ppbv
RT: 9.205 min Scan# 2051
Delta R.T. -0.019 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

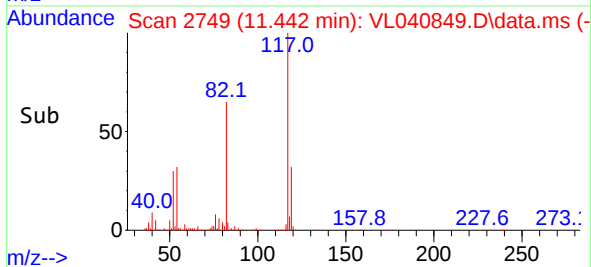
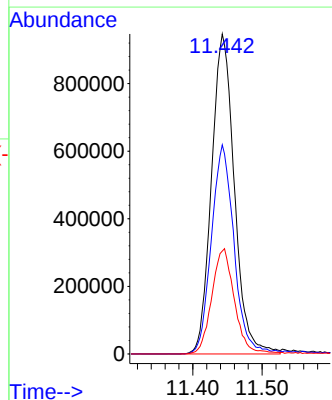
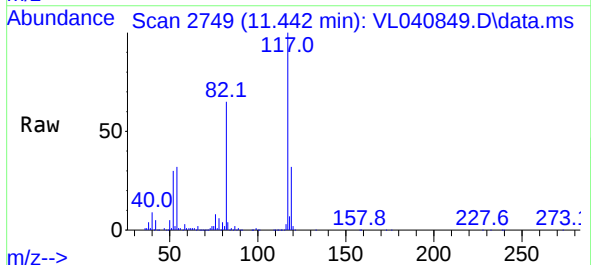
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

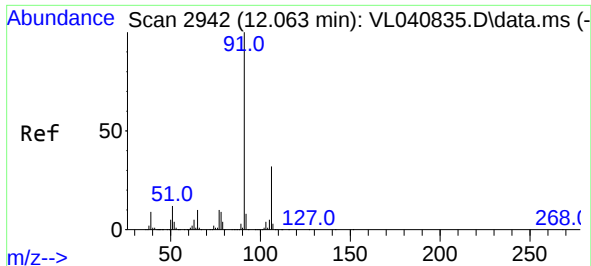
Tgt Ion: 91 Resp: 184751
Ion Ratio Lower Upper
91 100
92 62.5 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. -0.019 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 117 Resp: 2168467
Ion Ratio Lower Upper
117 100
82 65.3 50.6 75.8
119 32.8 23.3 34.9

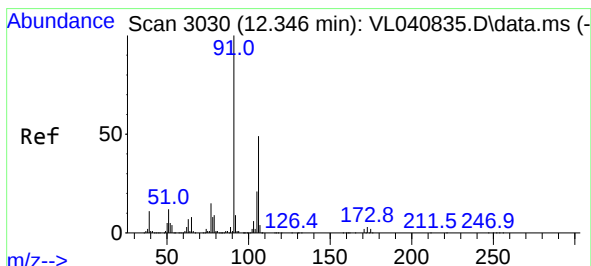
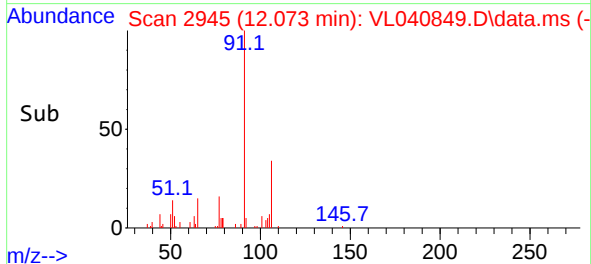
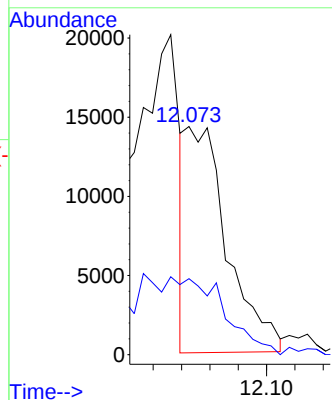
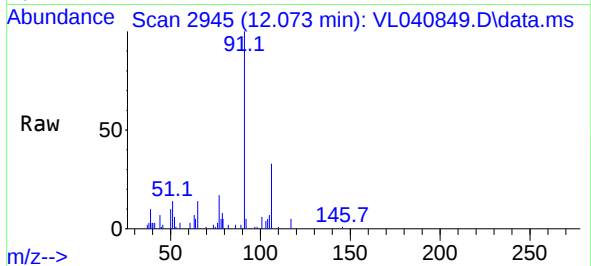




#58
Ethyl Benzene
Concen: 0.051 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.013 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

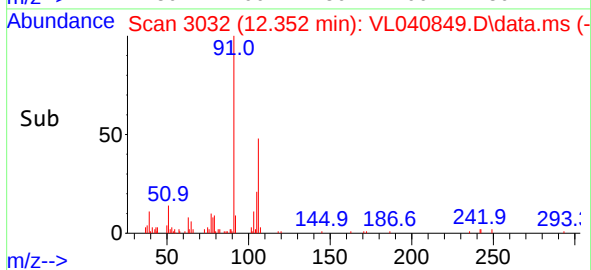
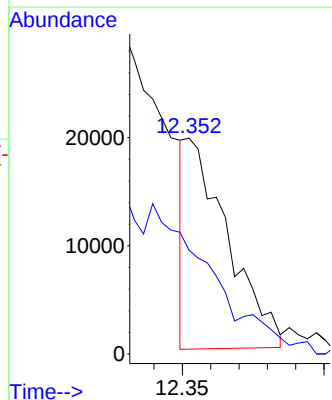
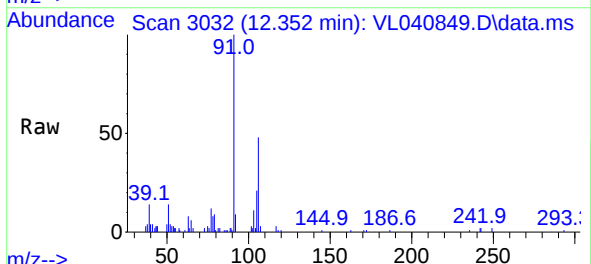
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

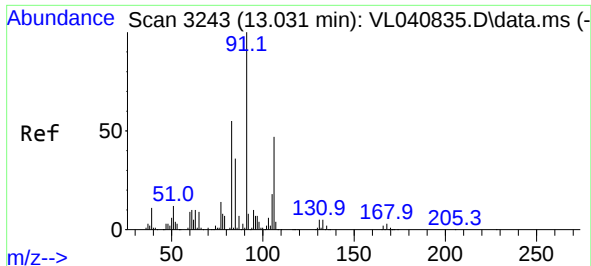
Tgt Ion: 91 Resp: 14503
Ion Ratio Lower Upper
91 100
106 35.8 25.2 37.8



#59
m/p-Xylene
Concen: 0.084 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. -0.016 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

Tgt Ion: 91 Resp: 20257
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.0#

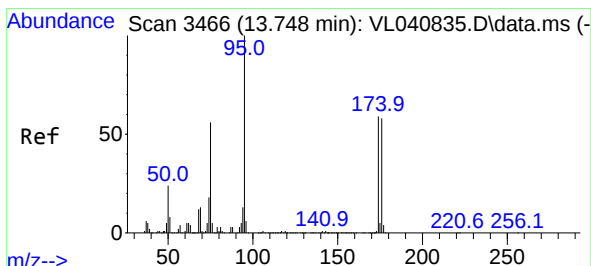
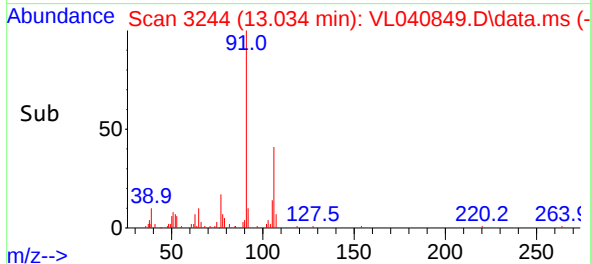
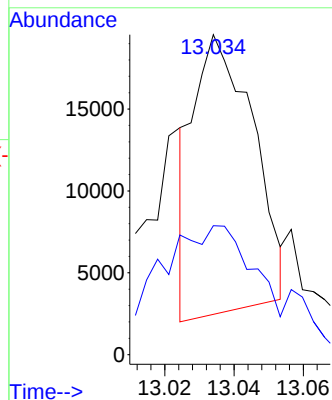
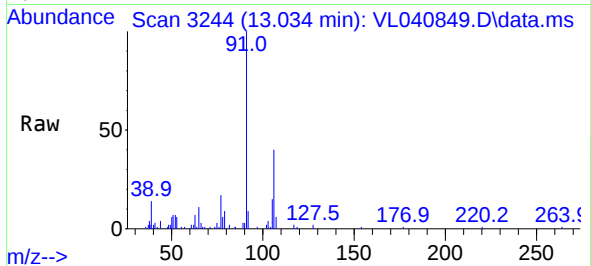




#60
o-Xylene
Concen: 0.089 ppbv
RT: 13.034 min Scan# 31
Delta R.T. -0.019 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

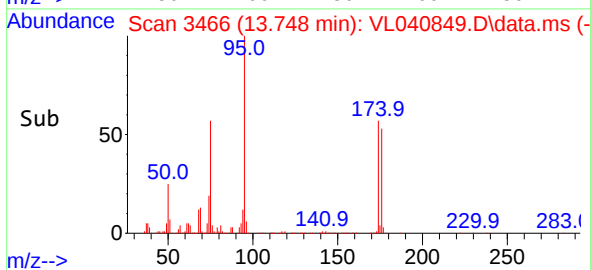
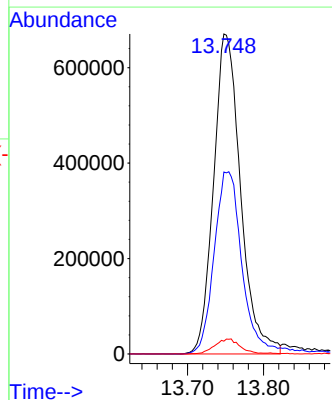
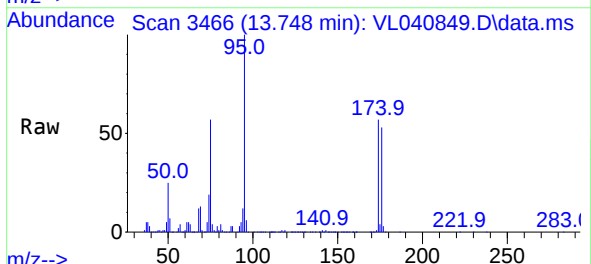
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

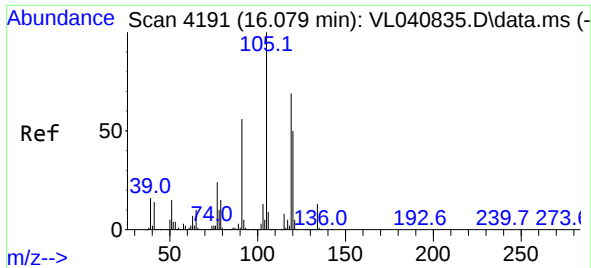
Tgt Ion: 91 Resp: 20348
Ion Ratio Lower Upper
91 100
106 98.4 22.9 68.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.743 ppbv
RT: 13.748 min Scan# 3466
Delta R.T. -0.023 min
Lab File: VL040849.D
Acq: 14 Nov 2023 13:56

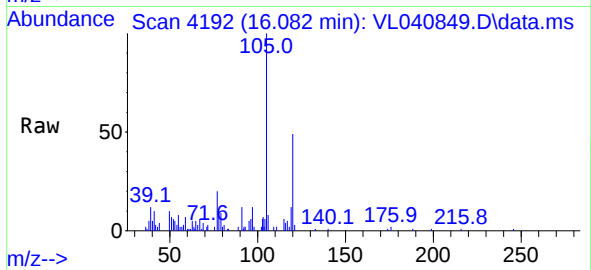
Tgt Ion: 95 Resp: 1654180
Ion Ratio Lower Upper
95 100
174 60.4 47.5 71.3
175 4.6 3.6 5.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.091 ppbv
 RT: 16.082 min Scan# 41
 Delta R.T. -0.019 min
 Lab File: VL040849.D
 Acq: 14 Nov 2023 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP



Tgt Ion:	105	Resp:	22569
Ion	Ratio	Lower	Upper
105	100		
120	50.8	40.2	60.2
91	6.9	45.7	68.5#
77	13.2	19.2	28.8#

