

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101722\
 Data File : VL039724.D
 Acq On : 17 Oct 2022 18:06
 Operator : SY/AP
 Sample : N5169-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Oct 18 05:28:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Oct 18 05:23:57 2022
 Response via : Initial Calibration

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

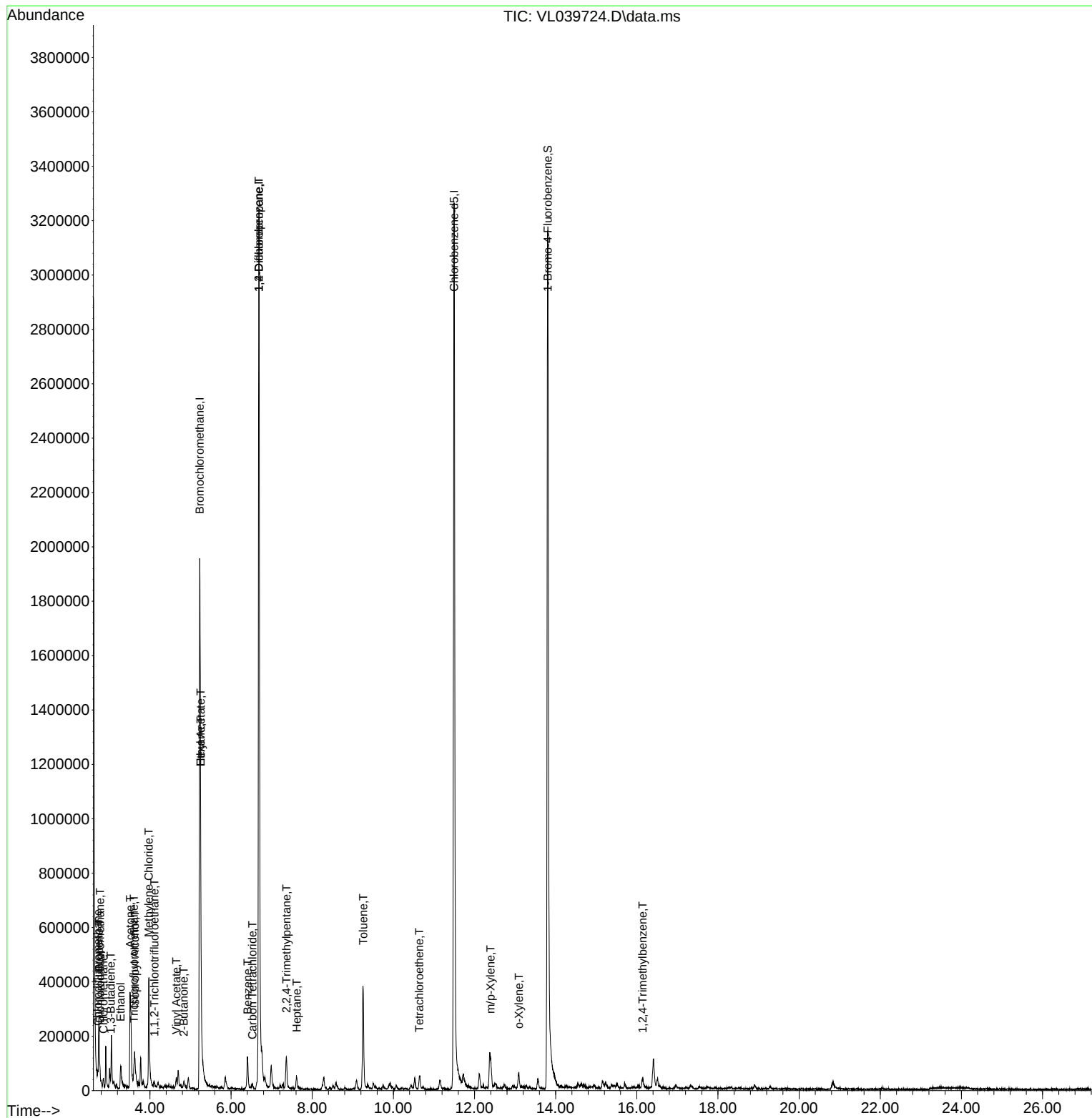
Internal Standards						
1) Bromochloromethane	5.227	49	965757	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.687	114	2497567	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.497	117	2167105	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.806	95	1616207	9.990	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.771	85	28245	0.252	ppbv	98
3) Chlorodifluoromethane	2.716	51	60424	0.527	ppbv #	87
4) Chloromethane	2.854	50	26960	0.390	ppbv #	77
9) Propene	2.742	41	83238	1.590	ppbv	90
10) Heptane	7.616	43	8489	0.069	ppbv #	27
11) Trichlorofluoromethane	3.603	101	29283	0.211	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.108	101	5674	0.054	ppbv #	68
13) Ethanol	3.279	45	95877	24.040	ppbv	78
15) Acetone	3.510	43	415791	3.869	ppbv	99
16) 1,3-Butadiene	3.034	39	3499	0.064	ppbv #	1
19) Isopropyl Alcohol	3.626	45	129189	2.358	ppbv #	92
20) Methylene Chloride	3.970	84	133399	2.685	ppbv	98
23) Vinyl Acetate	4.652	43	7706	0.159	ppbv #	1
25) Ethyl Acetate	5.250	43	167179	0.713	ppbv #	89
26) Hexane	5.250	57	164642	1.656	ppbv #	51
34) 2-Butanone	4.838	43	13925	0.114	ppbv #	28
35) Carbon Tetrachloride	6.529	117	4411	0.033	ppbv #	74
36) Benzene	6.407	78	93003	0.487	ppbv #	94
39) 1,2-Dichloropropane	6.687	63	618603	8.390	ppbv #	24
44) 2,2,4-Trimethylpentane	7.365	57	64942	0.197	ppbv #	54
52) Tetrachloroethene	10.638	164	4931	0.068	ppbv	86
53) Toluene	9.256	91	271969	1.281	ppbv	100
59) m/p-Xylene	12.397	91	58795	0.264	ppbv #	32
60) o-Xylene	13.095	91	14529	0.068	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.143	105	11132	0.045	ppbv #	68

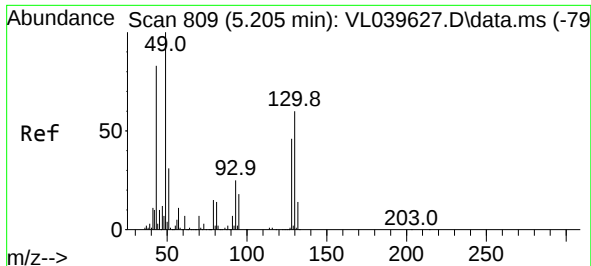
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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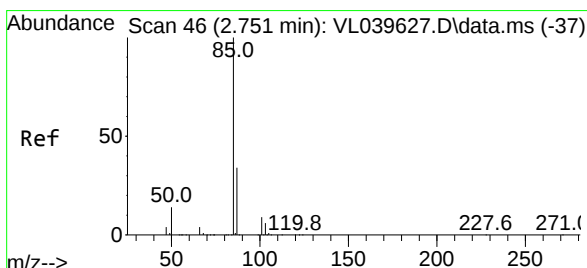
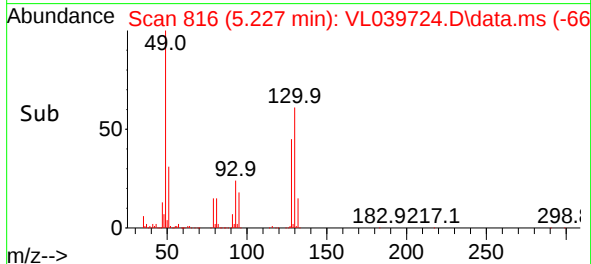
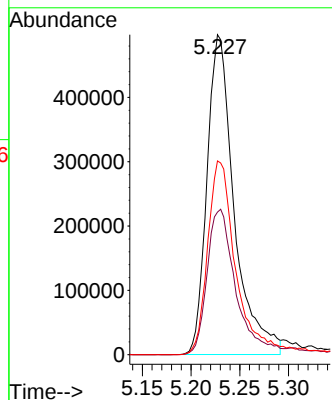
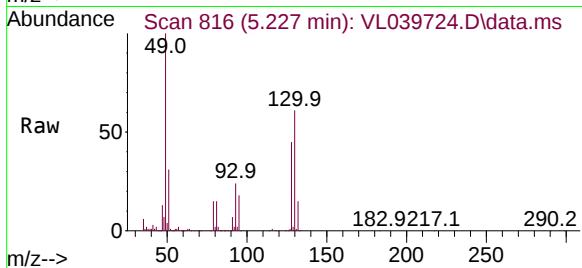




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.227 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

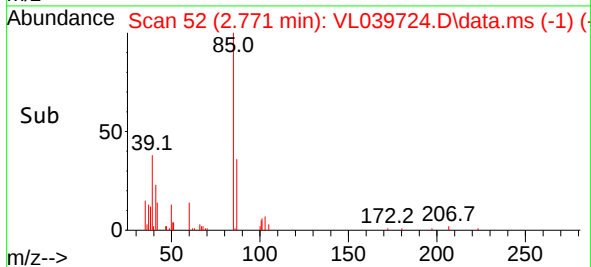
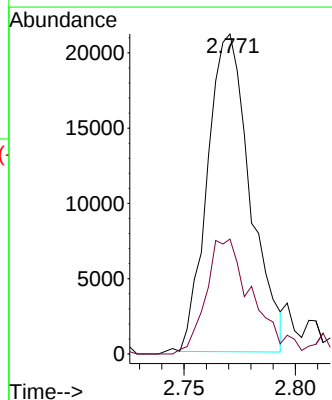
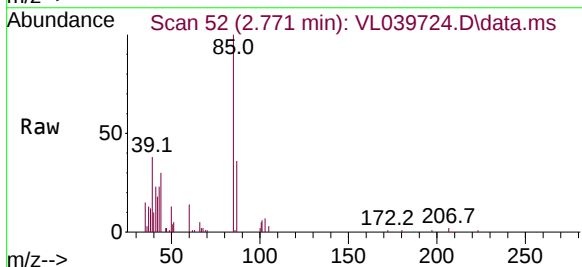
Instrument :
MSVOA_L
ClientSampleId :
OA1

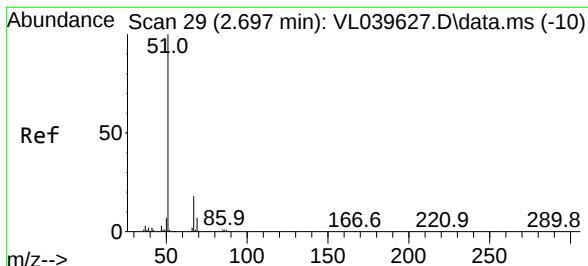
Tgt Ion: 49 Resp: 965757
Ion Ratio Lower Upper
49 100
128 51.0 26.7 80.0
130 65.0 34.3 102.8



#2
Dichlorodifluoromethane
Concen: 0.252 ppbv
RT: 2.771 min Scan# 52
Delta R.T. 0.003 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Tgt Ion: 85 Resp: 28245
Ion Ratio Lower Upper
85 100
87 34.8 26.7 40.1

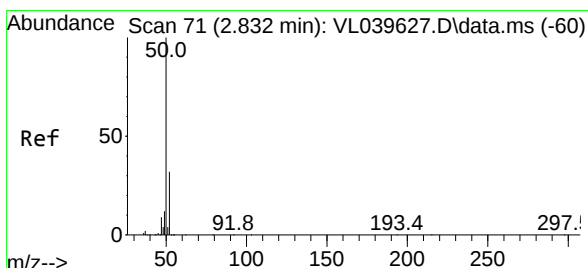
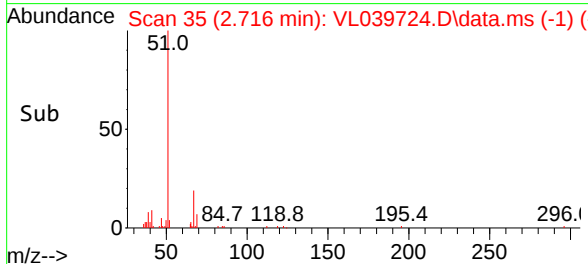
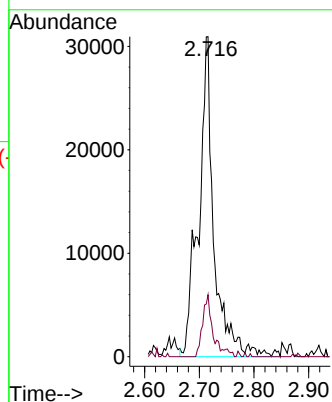
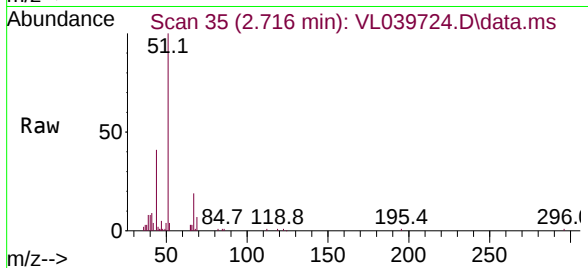




#3
Chlorodifluoromethane
Concen: 0.527 ppbv
RT: 2.716 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

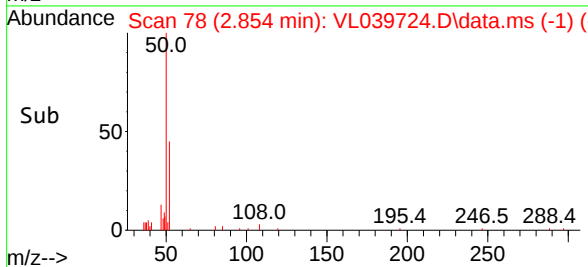
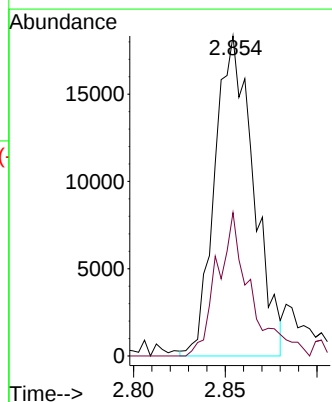
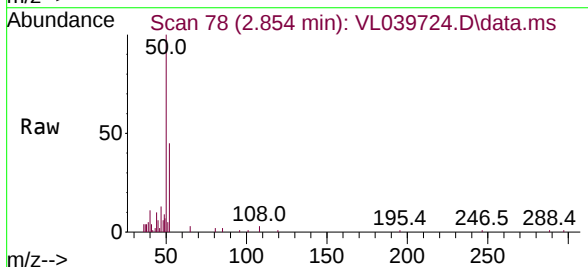
Instrument :
MSVOA_L
ClientSampleId :
OA1

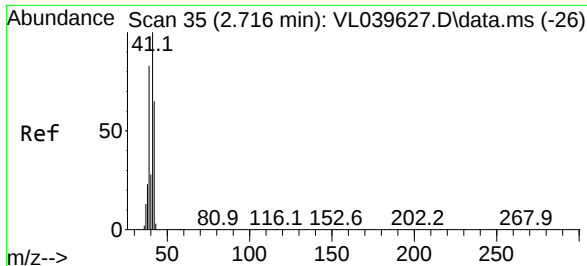
Tgt Ion: 51 Resp: 60424
Ion Ratio Lower Upper
51 100
67 13.6 15.7 23.5#



#4
Chloromethane
Concen: 0.390 ppbv
RT: 2.854 min Scan# 78
Delta R.T. 0.003 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Tgt Ion: 50 Resp: 26960
Ion Ratio Lower Upper
50 100
52 46.3 26.5 39.7#





#9

Propene

Concen: 1.590 ppbv

RT: 2.742 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL039724.D

Acq: 17 Oct 2022 18:06

Instrument :

MSVOA_L

ClientSampleId :

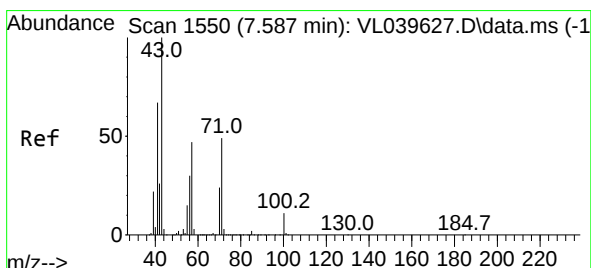
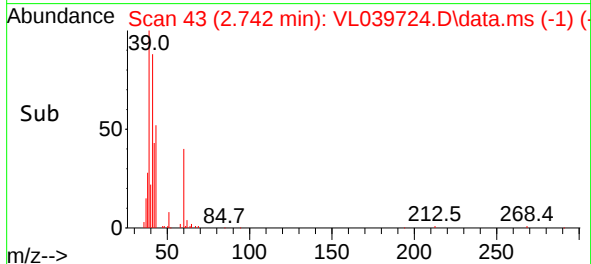
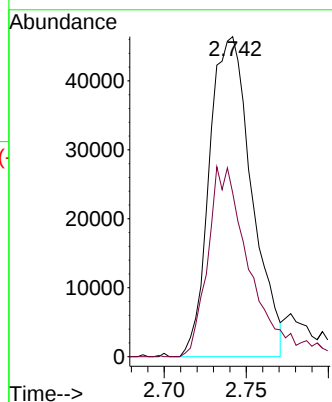
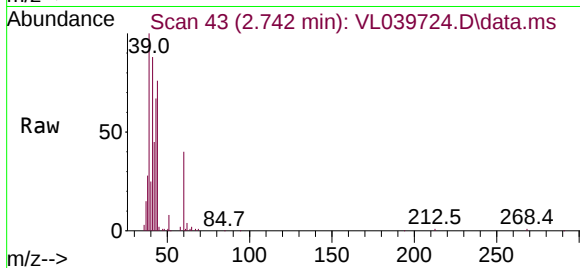
OA1

Tgt Ion: 41 Resp: 83238

Ion Ratio Lower Upper

41 100

42 61.1 55.2 82.8



#10

Heptane

Concen: 0.069 ppbv

RT: 7.616 min Scan# 1559

Delta R.T. 0.006 min

Lab File: VL039724.D

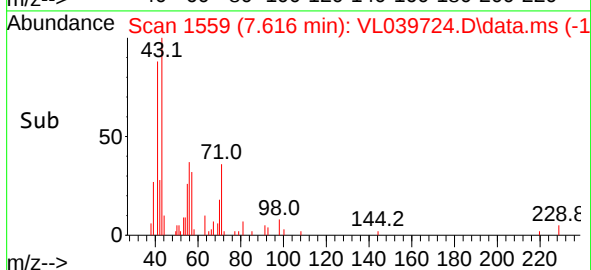
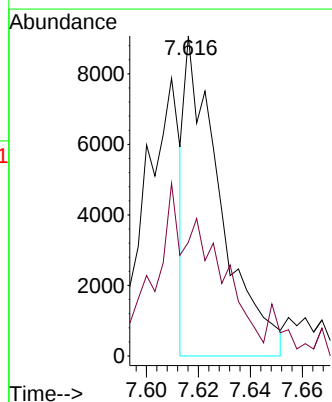
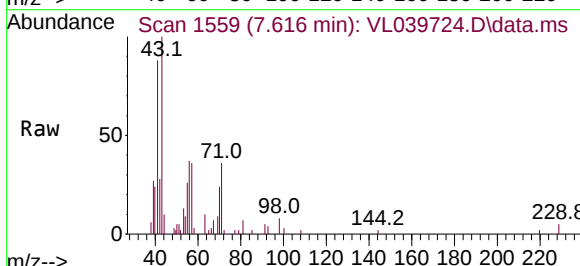
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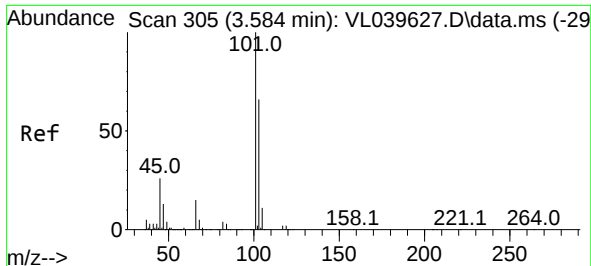
Tgt Ion: 43 Resp: 8489

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#

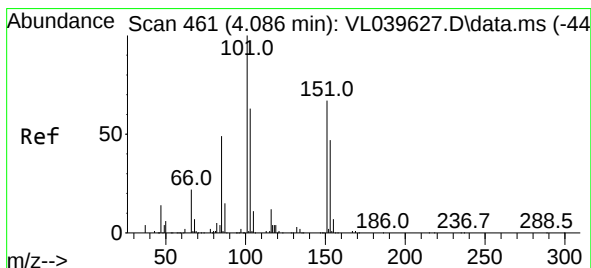
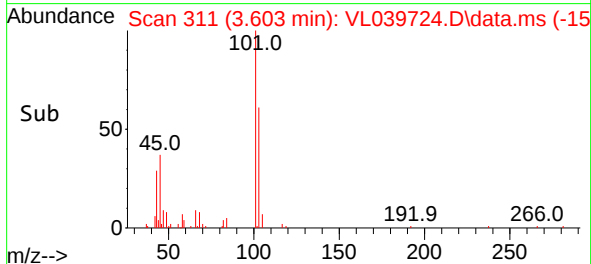
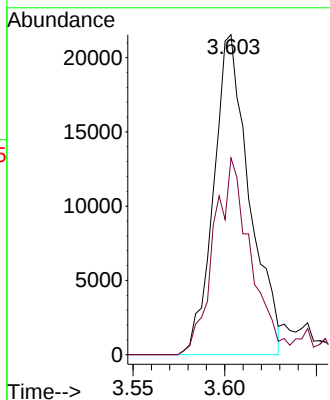
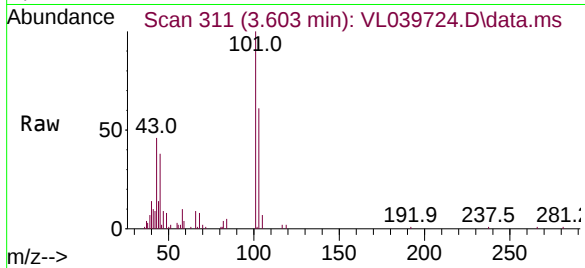




#11
Trichlorofluoromethane
Concen: 0.211 ppbv
RT: 3.603 min Scan# 311
Delta R.T. 0.003 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

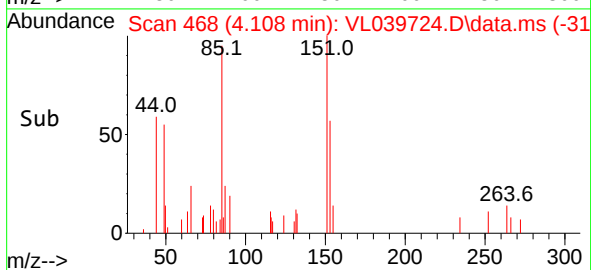
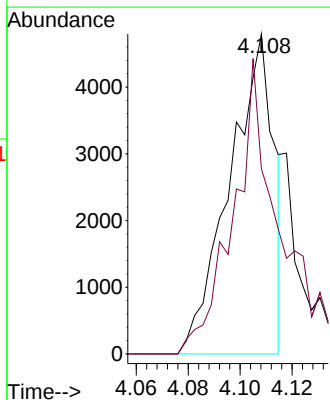
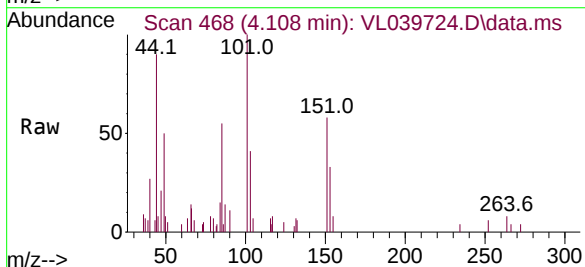
Instrument :
MSVOA_L
ClientSampleId :
OA1

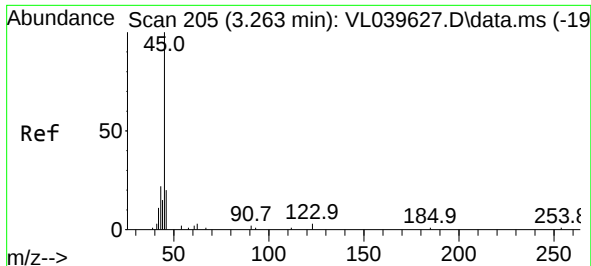
Tgt Ion:101 Resp: 29283
Ion Ratio Lower Upper
101 100
103 61.5 51.8 77.8



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.054 ppbv
RT: 4.108 min Scan# 468
Delta R.T. 0.003 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Tgt Ion:101 Resp: 5674
Ion Ratio Lower Upper
101 100
151 101.0 58.9 88.3#

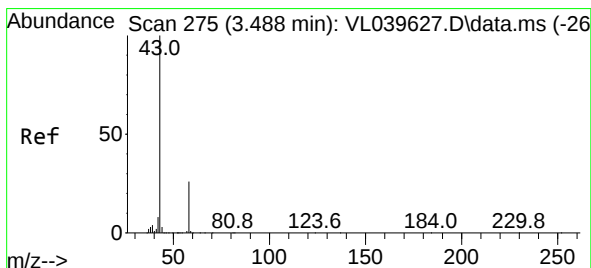
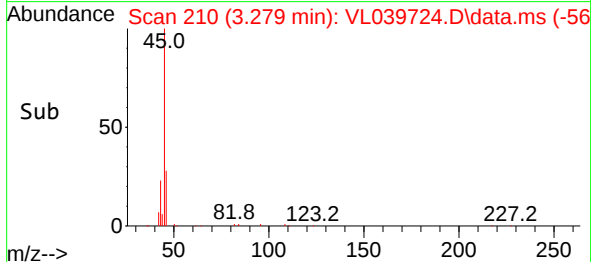
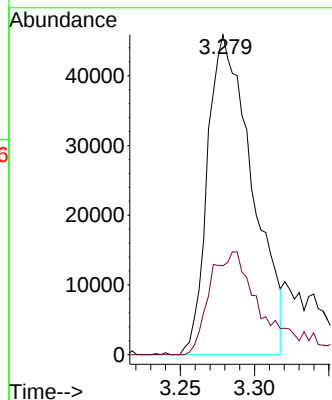
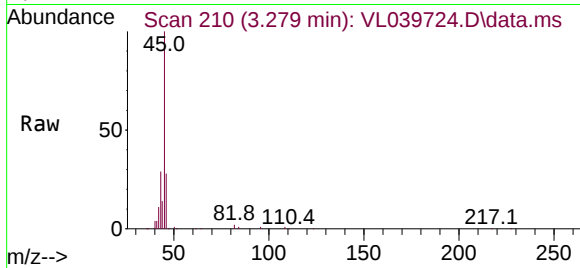




#13
Ethanol
Concen: 24.040 ppbv
RT: 3.279 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

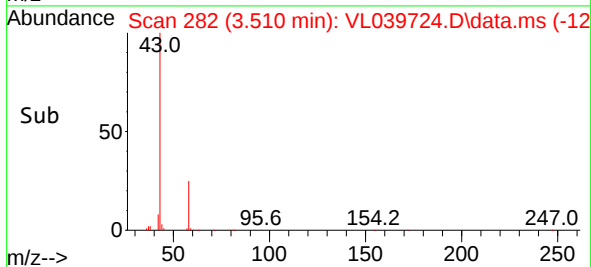
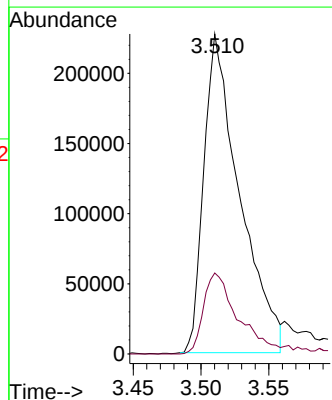
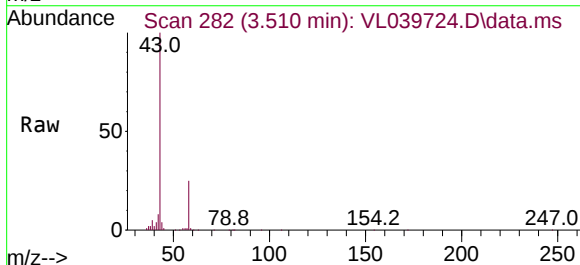
Instrument :
MSVOA_L
ClientSampleId :
OA1

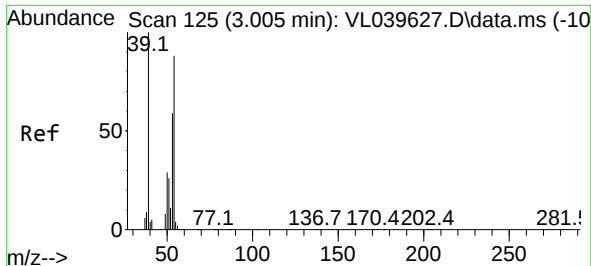
Tgt Ion: 45 Resp: 95877
Ion Ratio Lower Upper
45 100
46 41.0 22.8 91.2



#15
Acetone
Concen: 3.869 ppbv
RT: 3.510 min Scan# 282
Delta R.T. 0.006 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Tgt Ion: 43 Resp: 415791
Ion Ratio Lower Upper
43 100
58 26.7 21.0 31.6





#16

1,3-Butadiene

Concen: 0.064 ppbv

RT: 3.034 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL039724.D

Acq: 17 Oct 2022 18:06

Instrument :

MSVOA_L

ClientSampleId :

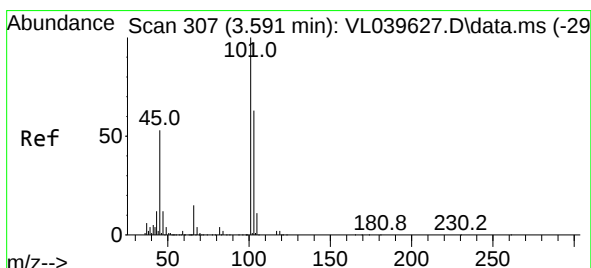
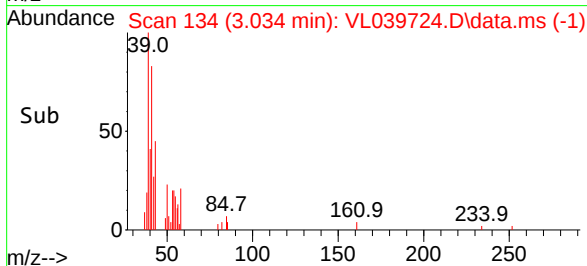
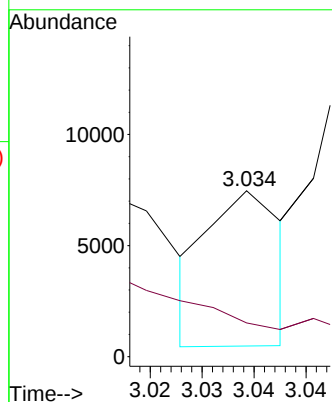
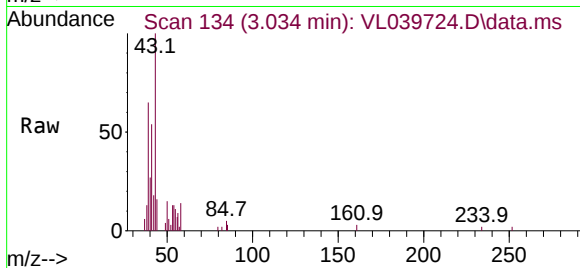
OA1

Tgt Ion: 39 Resp: 3499

Ion Ratio Lower Upper

39 100

54 203.7 63.7 95.5#



#19

Isopropyl Alcohol

Concen: 2.358 ppbv

RT: 3.626 min Scan# 318

Delta R.T. 0.013 min

Lab File: VL039724.D

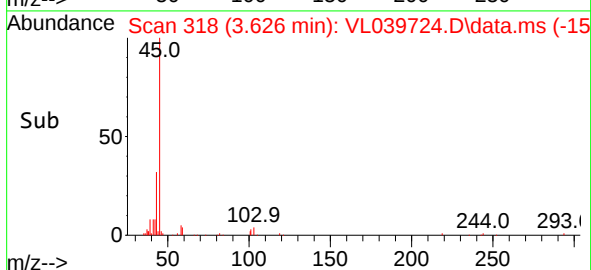
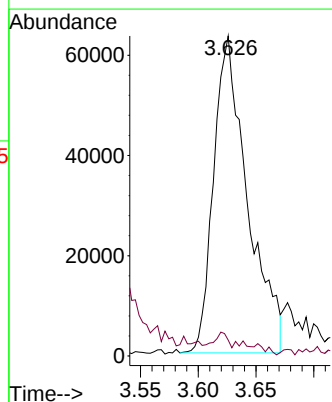
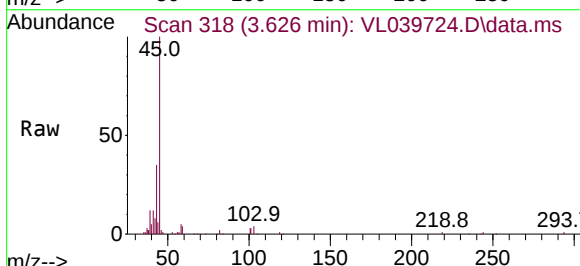
Acq: 17 Oct 2022 18:06

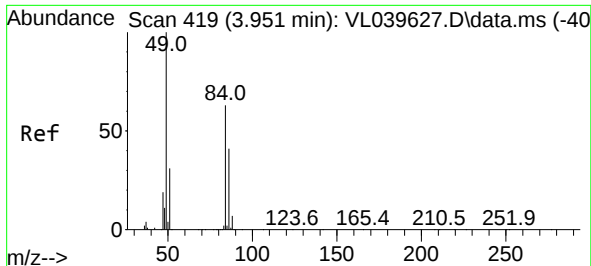
Tgt Ion: 45 Resp: 129189

Ion Ratio Lower Upper

45 100

58 6.6 3.2 4.8#



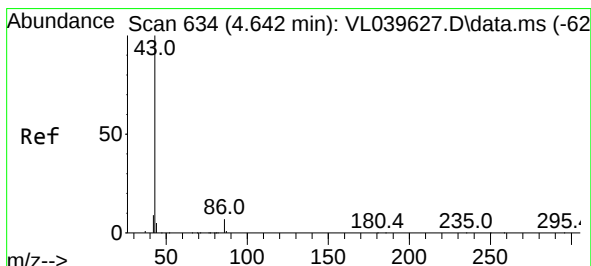
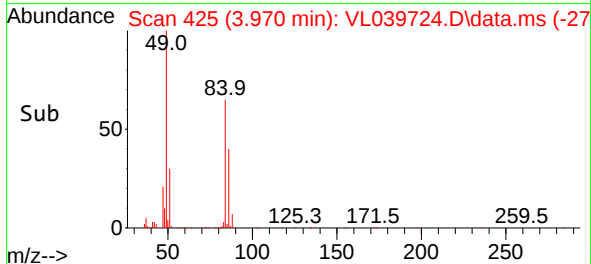
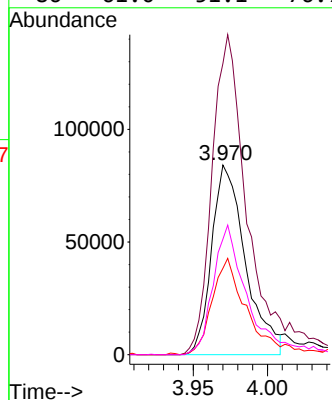
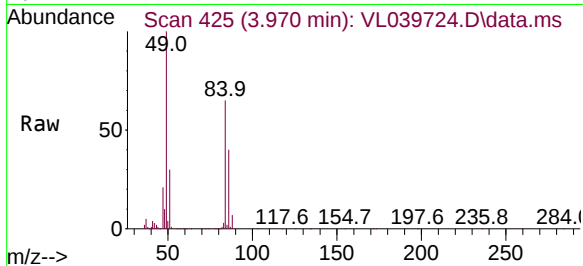


#20
Methylene Chloride
Concen: 2.685 ppbv
RT: 3.970 min Scan# 419
Delta R.T. -0.000 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84 Resp: 133399

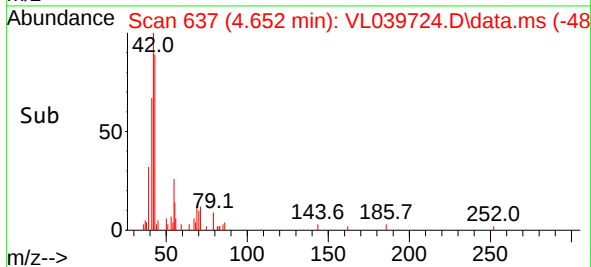
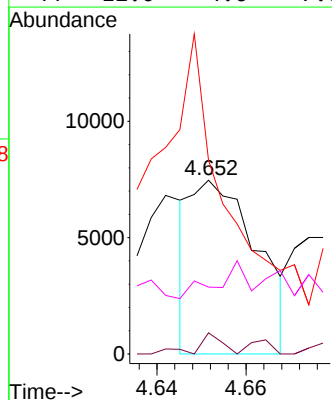
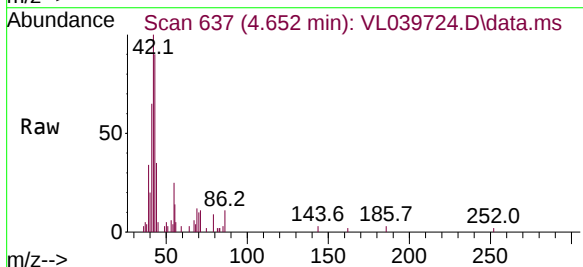
Ion	Ratio	Lower	Upper
84	100		
49	153.6	123.1	184.7
51	45.6	34.4	51.6
86	61.0	51.1	76.7

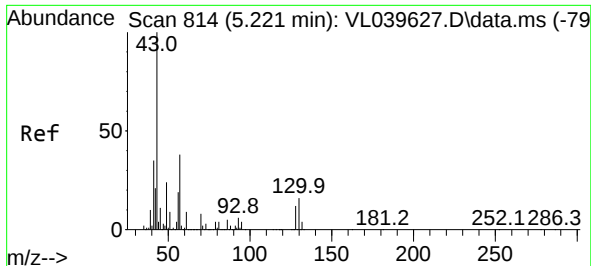


#23
Vinyl Acetate
Concen: 0.159 ppbv
RT: 4.652 min Scan# 637
Delta R.T. -0.010 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Tgt Ion: 43 Resp: 7706

Ion	Ratio	Lower	Upper
43	100		
86	21.9	5.0	7.6#
42	114.7	7.7	11.5#
44	12.0	4.6	7.0#

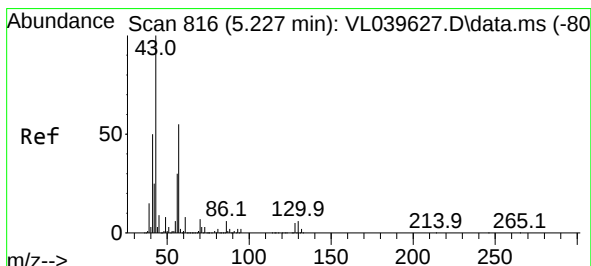
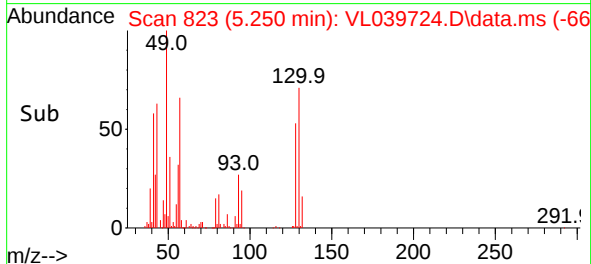
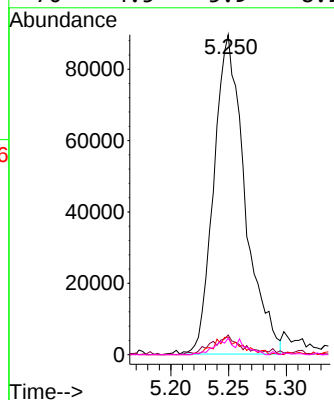
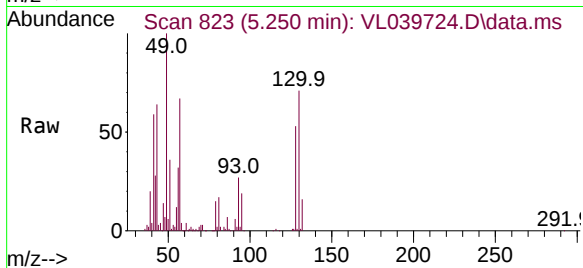




#25
Ethyl Acetate
Concen: 0.713 ppbv
RT: 5.250 min Scan# 814
Delta R.T. 0.010 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

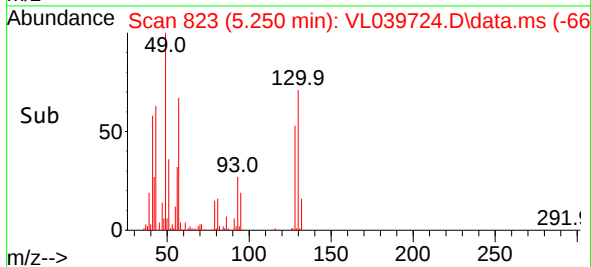
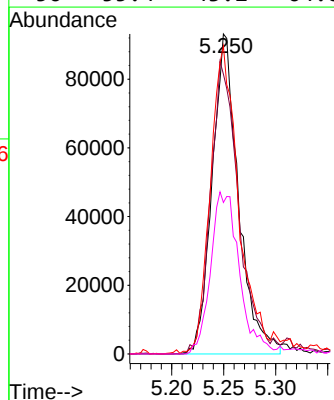
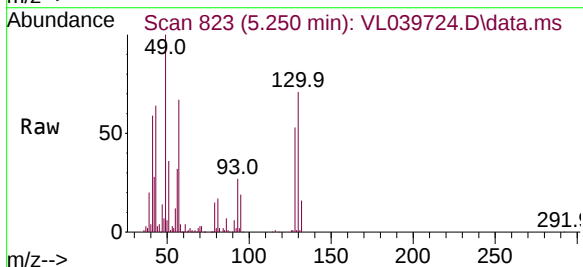
Instrument :
MSVOA_L
ClientSampleId :
OA1

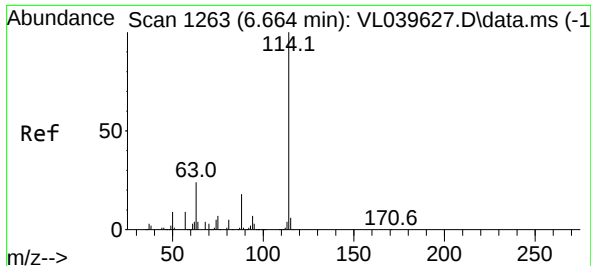
Tgt Ion: 43 Resp: 167179
Ion Ratio Lower Upper
43 100
45 6.2 8.2 12.4#
61 5.8 8.3 12.5#
70 4.5 5.9 8.9#



#26
Hexane
Concen: 1.656 ppbv
RT: 5.250 min Scan# 823
Delta R.T. 0.003 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Tgt Ion: 57 Resp: 164642
Ion Ratio Lower Upper
57 100
41 102.2 76.9 115.3
43 109.4 191.0 286.6#
56 55.4 43.2 64.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.687 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL039724.D

Acq: 17 Oct 2022 18:06

Instrument :

MSVOA_L

ClientSampleId :

OA1

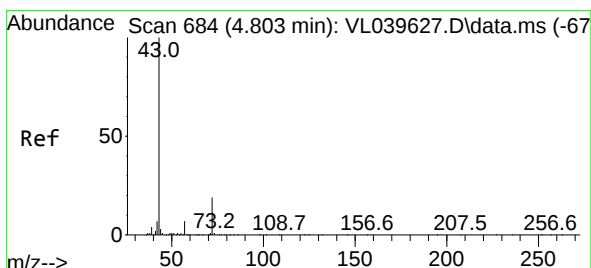
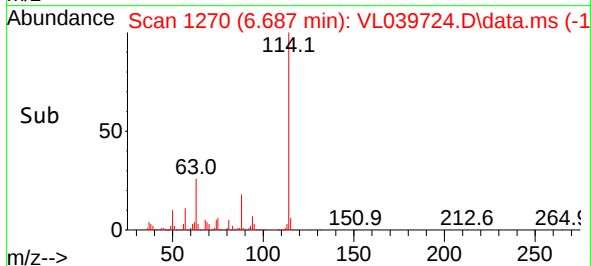
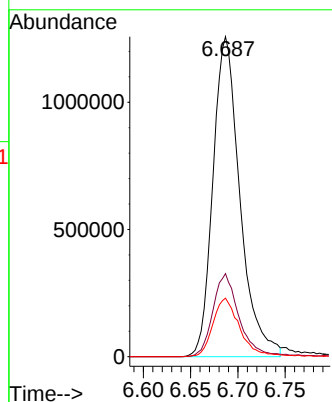
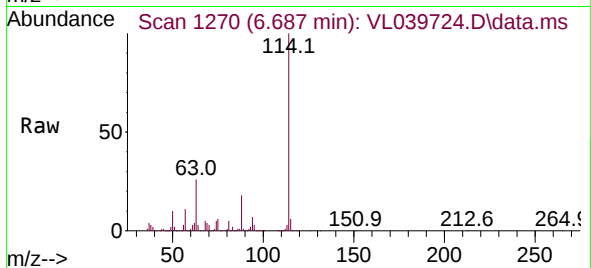
Tgt Ion:114 Resp: 2497567

Ion Ratio Lower Upper

114 100

63 25.9 20.2 30.4

88 18.4 14.5 21.7



#34

2-Butanone

Concen: 0.114 ppbv

RT: 4.838 min Scan# 695

Delta R.T. 0.016 min

Lab File: VL039724.D

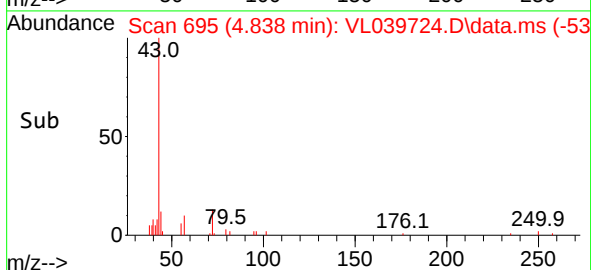
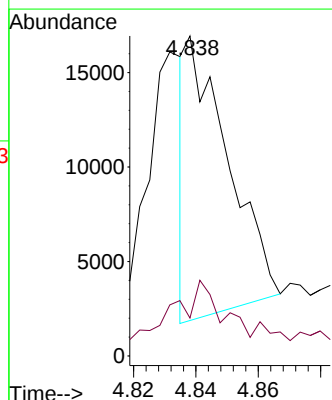
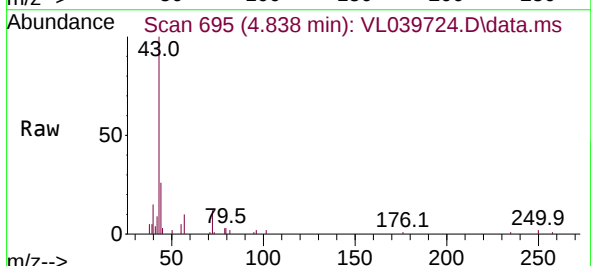
Acq: 17 Oct 2022 18:06

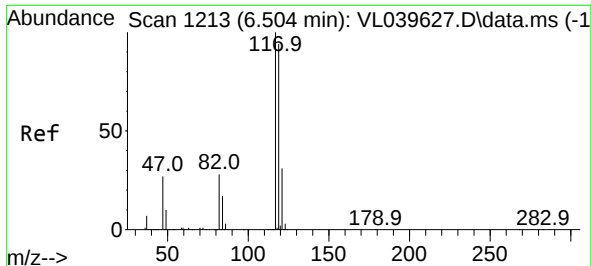
Tgt Ion: 43 Resp: 13925

Ion Ratio Lower Upper

43 100

72 57.2 17.9 26.9#

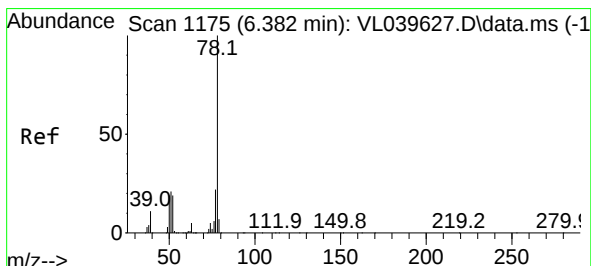
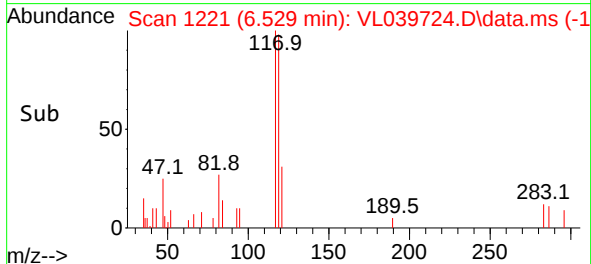
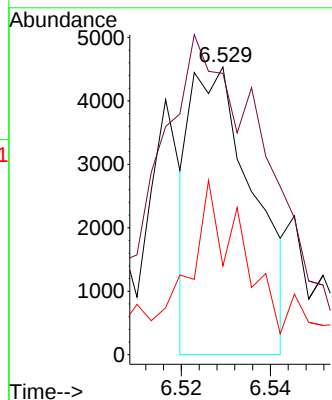
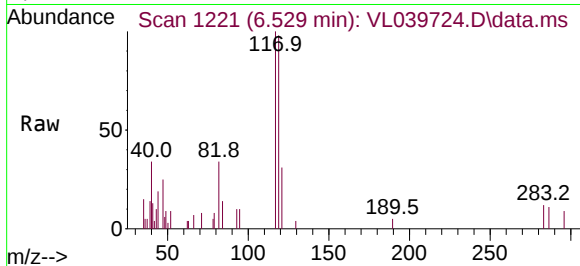




#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 6.529 min Scan# 1183
Delta R.T. 0.003 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

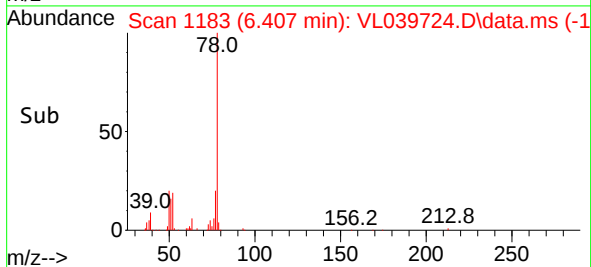
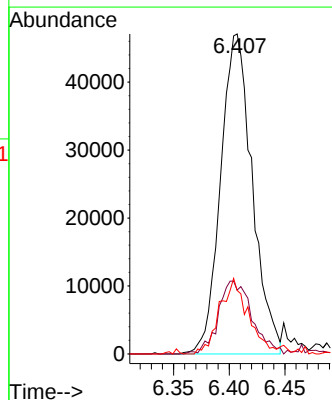
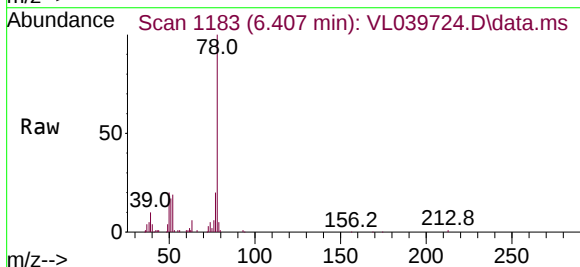
Instrument :
MSVOA_L
ClientSampleId :
OA1

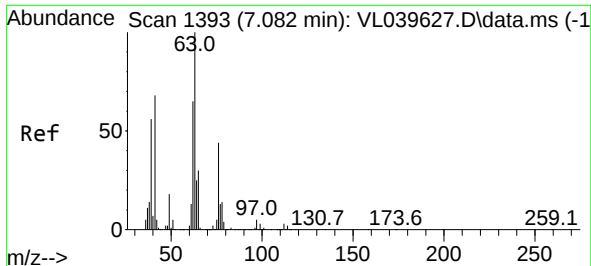
Tgt Ion:117 Resp: 4411
Ion Ratio Lower Upper
117 100
119 66.0 75.4 113.2#
121 39.6 24.2 36.2#



#36
Benzene
Concen: 0.487 ppbv
RT: 6.407 min Scan# 1183
Delta R.T. 0.006 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Tgt Ion: 78 Resp: 93003
Ion Ratio Lower Upper
78 100
77 20.0 20.3 30.5#
50 19.5 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.390 ppbv

RT: 6.687 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL039724.D

Acq: 17 Oct 2022 18:06

Instrument :

MSVOA_L

ClientSampleId :

OA1

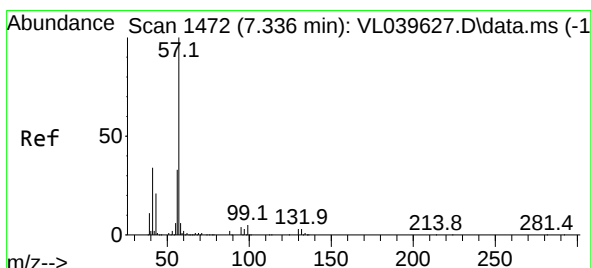
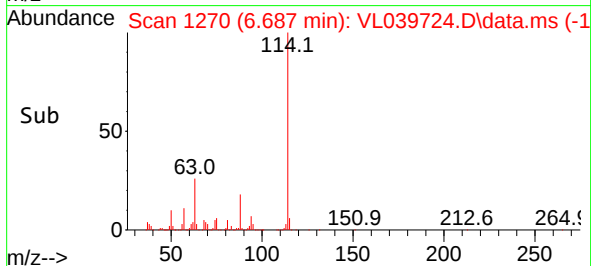
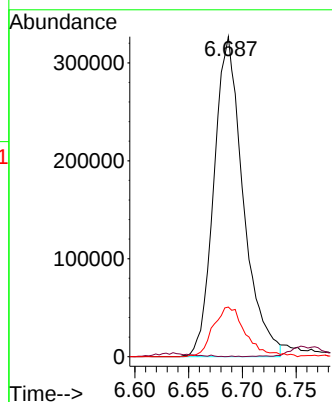
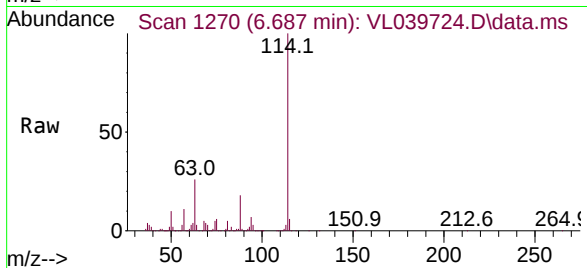
Tgt Ion: 63 Resp: 618603

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 15.5 51.4 77.0#



#44

2,2,4-Trimethylpentane

Concen: 0.197 ppbv

RT: 7.365 min Scan# 1481

Delta R.T. 0.010 min

Lab File: VL039724.D

Acq: 17 Oct 2022 18:06

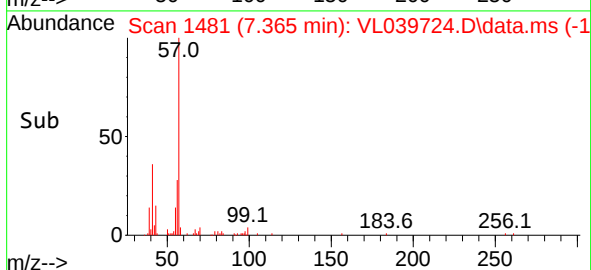
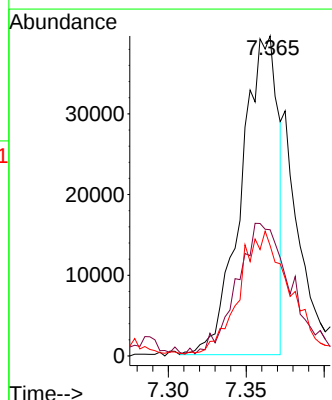
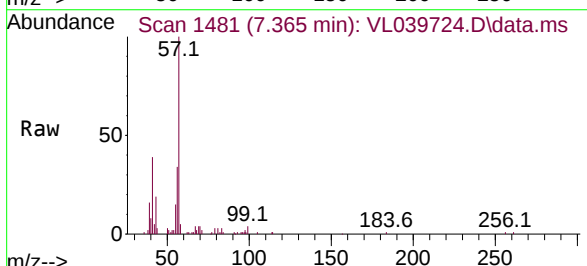
Tgt Ion: 57 Resp: 64942

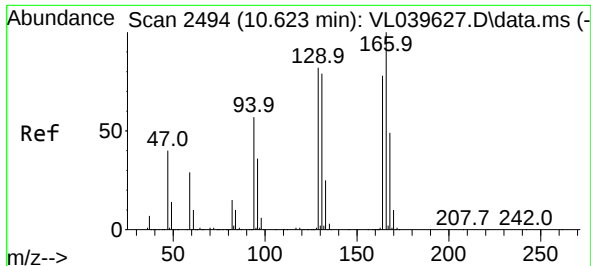
Ion Ratio Lower Upper

57 100

41 60.6 27.4 41.2#

56 56.0 24.5 36.7#

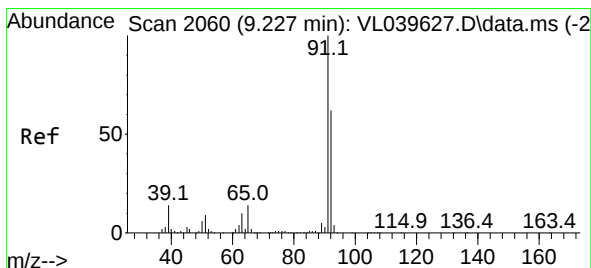
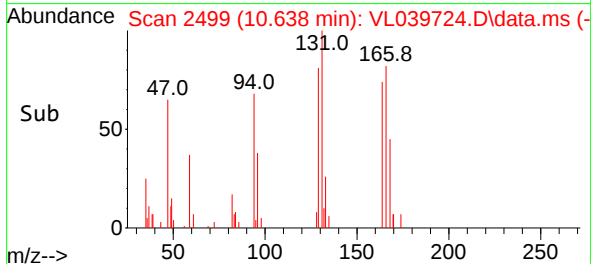
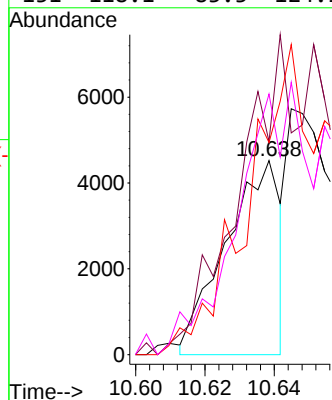
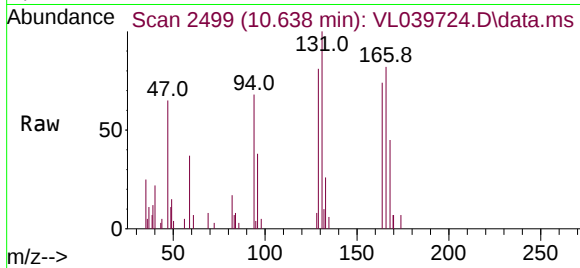




#52
Tetrachloroethene
Concen: 0.068 ppbv
RT: 10.638 min Scan# 2499
Delta R.T. -0.007 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

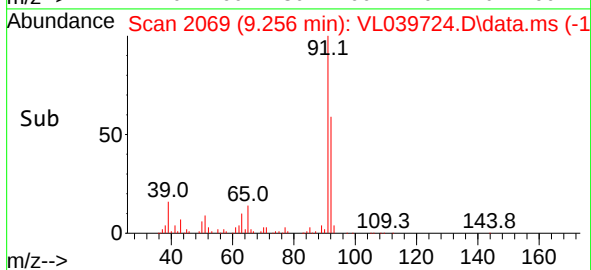
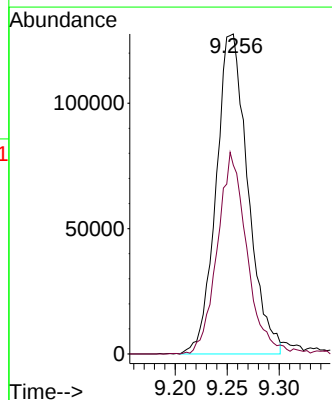
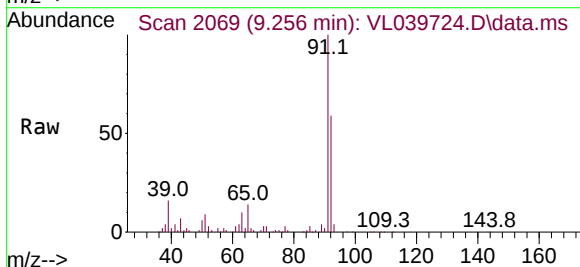
Instrument :
MSVOA_1
ClientSampleId :
OA1

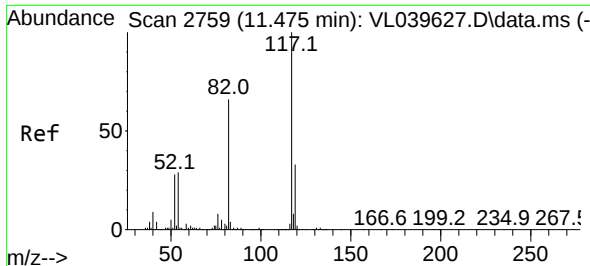
Tgt Ion:	164	Resp:	4931
Ion	Ratio	Lower	Upper
164	100		
166	104.4	102.2	153.2
129	100.4	85.8	128.8
131	118.1	83.3	124.9



#53
Toluene
Concen: 1.281 ppbv
RT: 9.256 min Scan# 2069
Delta R.T. 0.006 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Tgt Ion:	91	Resp:	271969
Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.2	72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.497 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL039724.D

Acq: 17 Oct 2022 18:06

Instrument :

MSVOA_1

ClientSampleId :

OA1

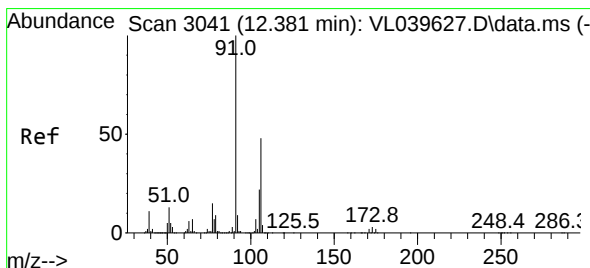
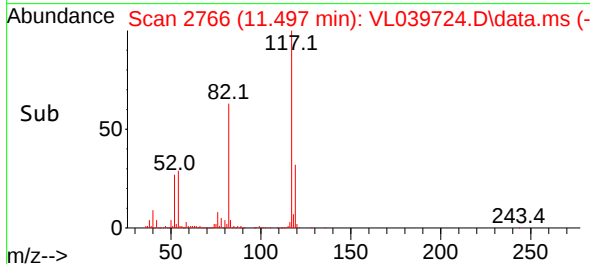
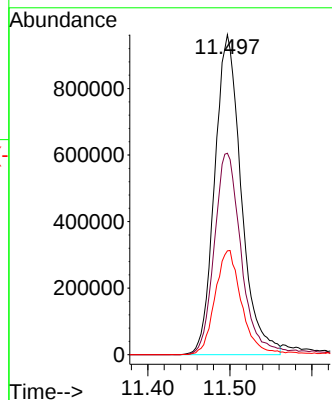
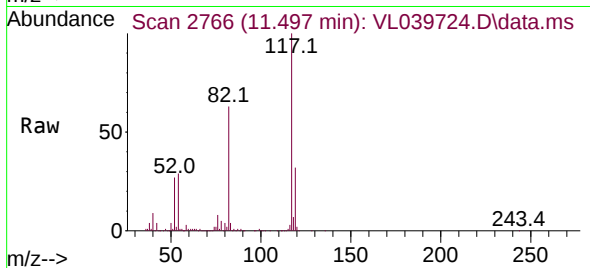
Tgt Ion:117 Resp: 2167105

Ion Ratio Lower Upper

117 100

82 66.5 50.8 76.2

119 33.8 24.1 36.1



#59

m/p-Xylene

Concen: 0.264 ppbv

RT: 12.397 min Scan# 3046

Delta R.T. -0.003 min

Lab File: VL039724.D

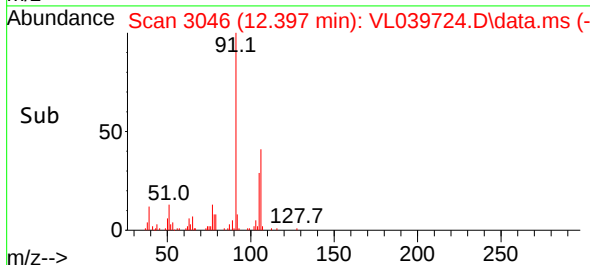
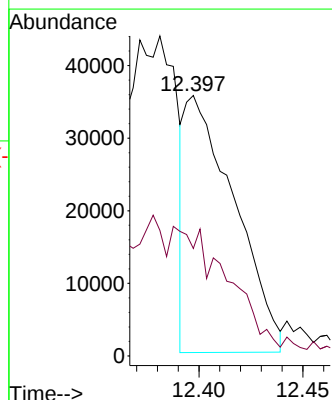
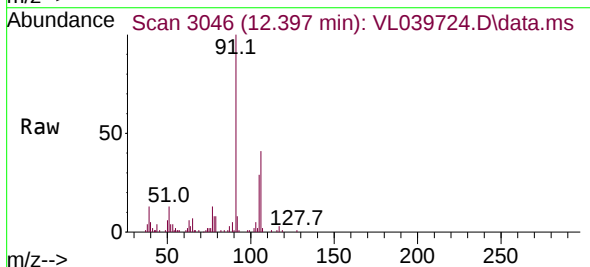
Acq: 17 Oct 2022 18:06

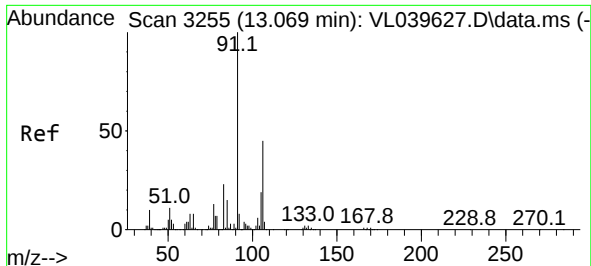
Tgt Ion: 91 Resp: 58795

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#

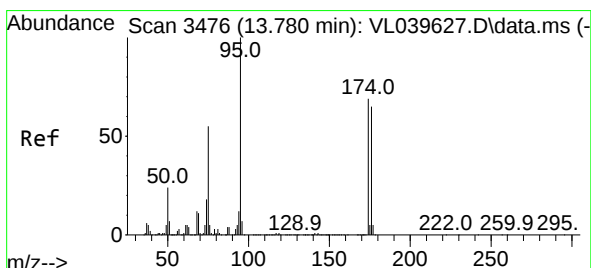
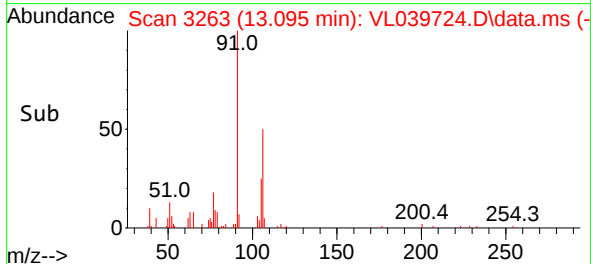
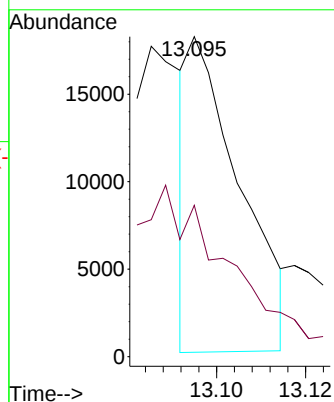
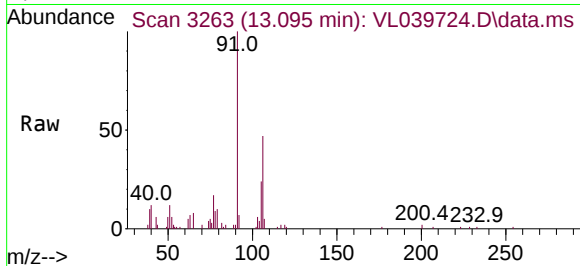




#60
o-Xylene
Concen: 0.068 ppbv
RT: 13.095 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

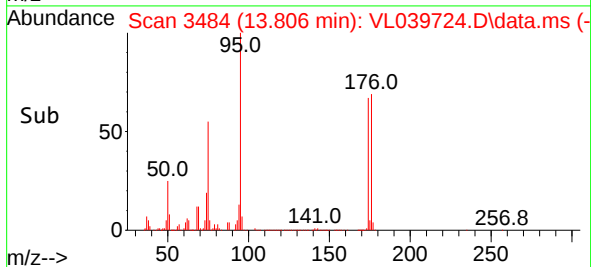
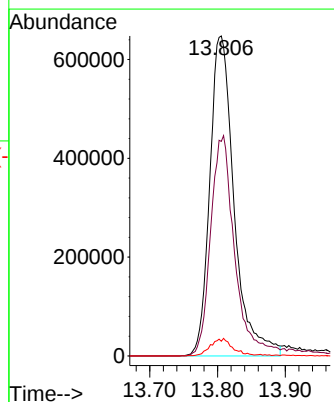
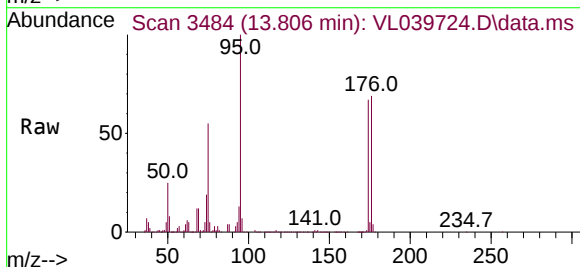
Instrument :
MSVOA_L
ClientSampleId :
OA1

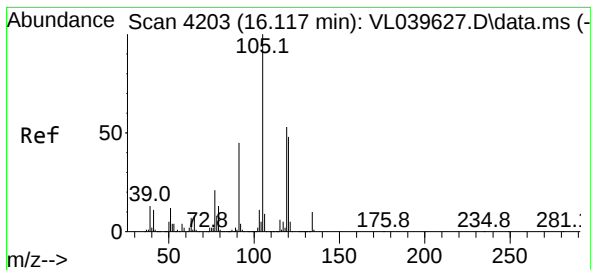
Tgt Ion: 91 Resp: 14529
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.990 ppbv
RT: 13.806 min Scan# 3484
Delta R.T. 0.006 min
Lab File: VL039724.D
Acq: 17 Oct 2022 18:06

Tgt Ion: 95 Resp: 1616207
Ion Ratio Lower Upper
95 100
174 71.6 55.9 83.9
175 5.1 4.2 6.4





#74

1,2,4-Trimethylbenzene

Concen: 0.045 ppbv

RT: 16.143 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL039724.D

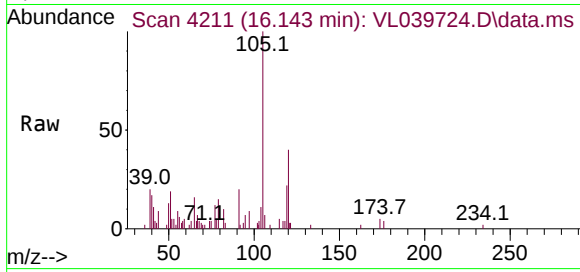
Acq: 17 Oct 2022 18:06

Instrument :

MSVOA_L

ClientSampleId :

OA1



Tgt Ion:105 Resp: 11132

Ion Ratio Lower Upper

105 100

120 33.5 39.5 59.3#

91 21.0 39.2 58.8#

77 6.7 17.2 25.8#

