

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101722\
 Data File : VL039729.D
 Acq On : 17 Oct 2022 21:17
 Operator : SY/AP
 Sample : N5169-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Oct 18 05:29:59 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	5.230	49	1185279	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.687	114	3085833	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.494	117	2712927	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	1982607	9.790	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.764	85	4590	0.033	ppbv #	71
4) Chloromethane	2.854	50	3983	0.047	ppbv #	73
9) Propene	2.732	41	164235	2.557	ppbv	98
10) Heptane	7.613	43	19607	0.131	ppbv	90
13) Ethanol	3.298	45	7559	1.544	ppbv	82
15) Acetone	3.517	43	627848	4.760	ppbv	97
16) 1,3-Butadiene	3.002	39	164651	2.461	ppbv #	30
20) Methylene Chloride	3.980	84	18808	0.308	ppbv #	93
25) Ethyl Acetate	5.253	43	32920	0.114	ppbv #	79
26) Hexane	5.253	57	48487	0.397	ppbv #	39
27) Carbon Disulfide	4.166	76	7011	0.055	ppbv #	56
30) Cyclohexane	6.635	84	3759	0.040	ppbv #	1
32) 1,1,1-Trichloroethane	6.037	97	5386	0.034	ppbv #	39
34) 2-Butanone	4.841	43	64982	0.429	ppbv	98
36) Benzene	6.407	78	29146	0.124	ppbv #	89
39) 1,2-Dichloropropane	6.687	63	755470	8.293	ppbv #	25
52) Tetrachloroethene	10.648	164	9448	0.105	ppbv #	55
53) Toluene	9.256	91	57864	0.221	ppbv	88
59) m/p-Xylene	12.407	91	11975	0.043	ppbv #	32
72) 4-Ethyltoluene	15.223	105	10647	0.035	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.381	105	11818	0.043	ppbv	94

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

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SV2DL

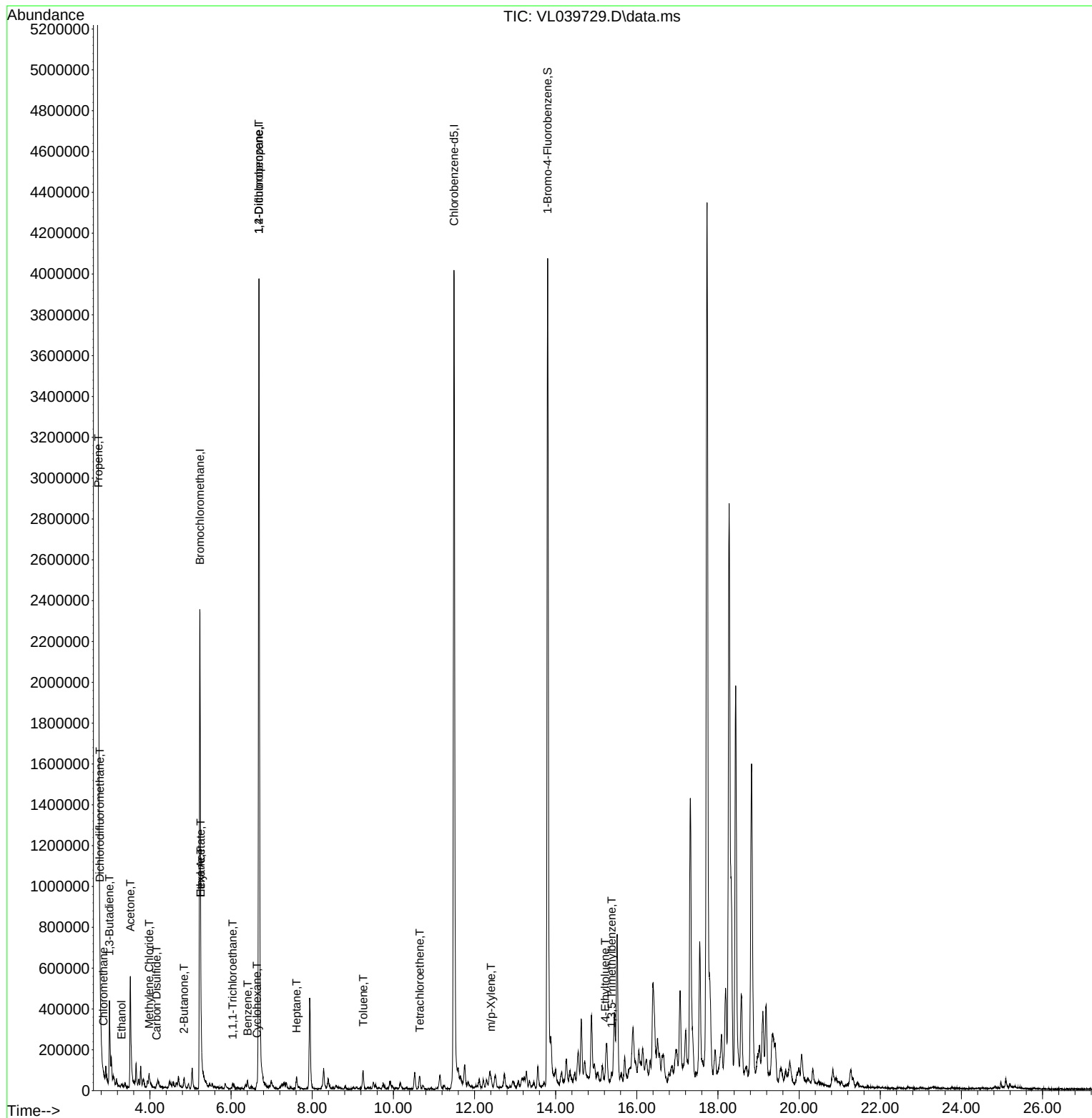
Quant Time: Oct 18 05:29:59 2022

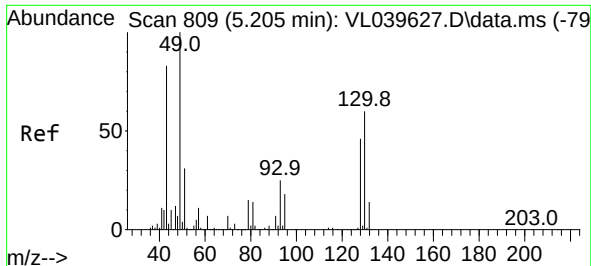
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M

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

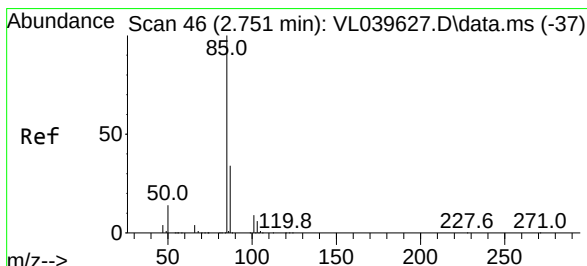
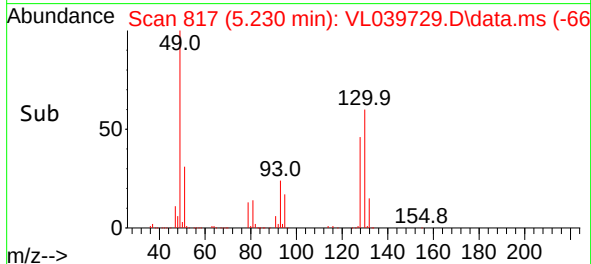
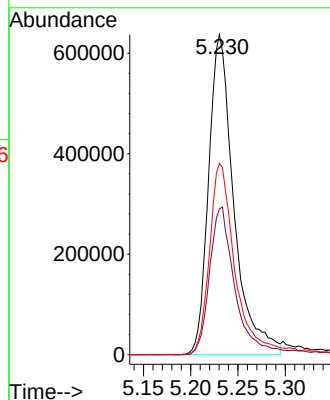
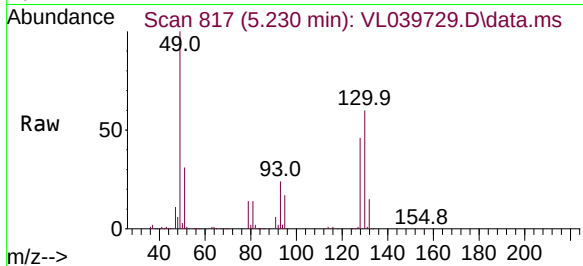




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.230 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

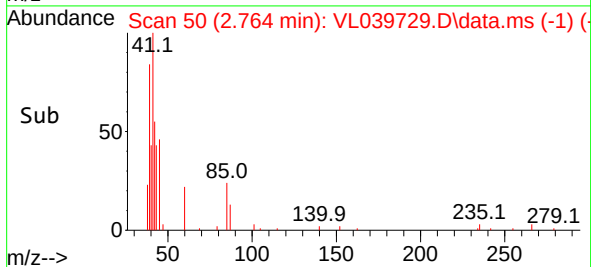
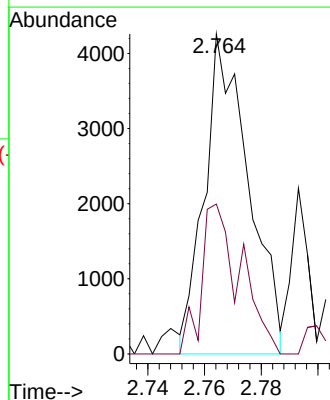
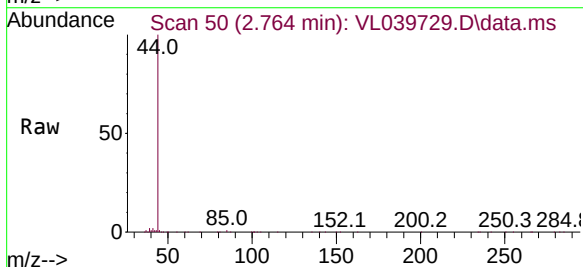
Instrument :
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SV2DL

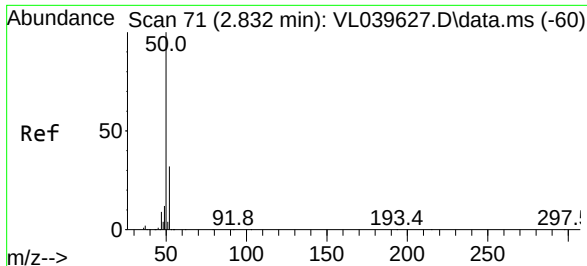
Tgt Ion: 49 Resp: 1185279
Ion Ratio Lower Upper
49 100
128 48.0 26.7 80.0
130 63.5 34.3 102.8



#2
Dichlorodifluoromethane
Concen: 0.033 ppbv
RT: 2.764 min Scan# 50
Delta R.T. -0.003 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 85 Resp: 4590
Ion Ratio Lower Upper
85 100
87 49.8 26.7 40.1#





#4
Chloromethane
Concen: 0.047 ppbv
RT: 2.854 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

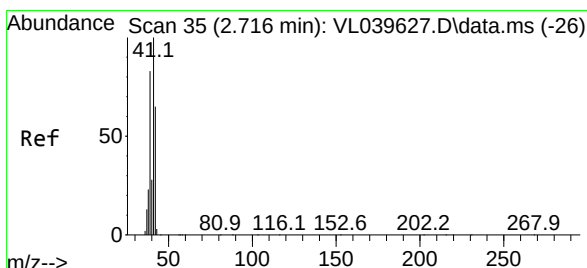
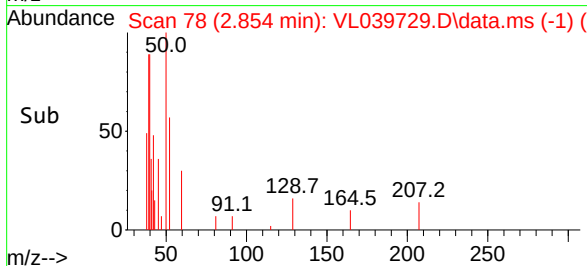
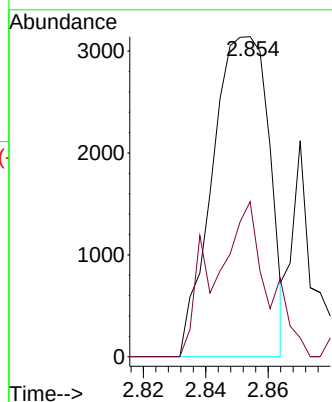
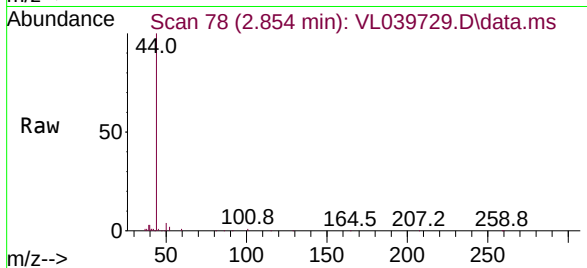
Instrument :

MSVOA_L

ClientSampleId :

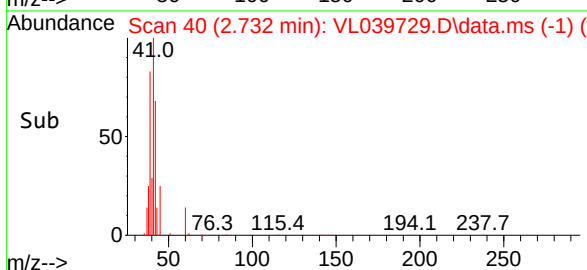
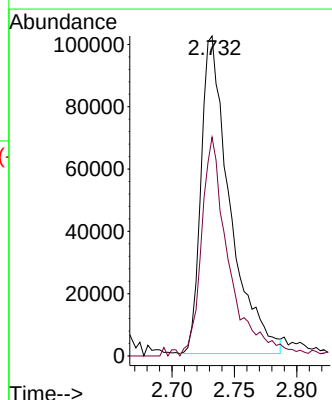
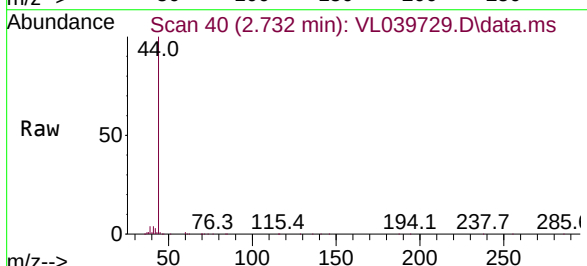
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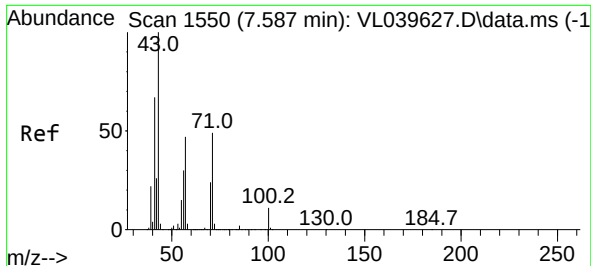
Tgt Ion: 50 Resp: 3983
Ion Ratio Lower Upper
50 100
52 48.5 26.5 39.7#



#9
Propene
Concen: 2.557 ppbv
RT: 2.732 min Scan# 40
Delta R.T. -0.000 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 41 Resp: 164235
Ion Ratio Lower Upper
41 100
42 67.6 55.2 82.8

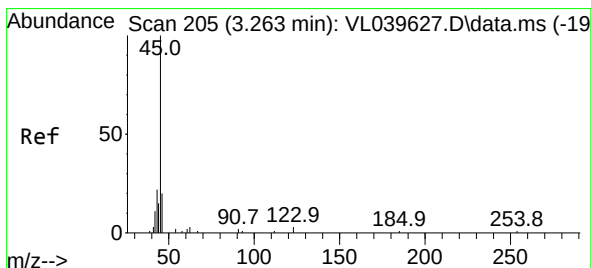
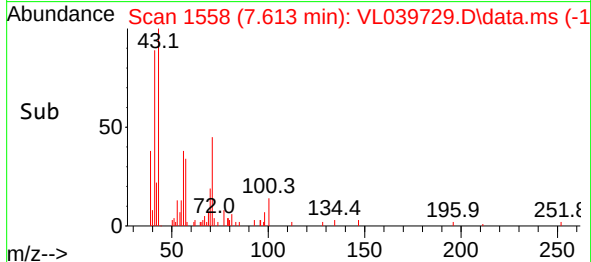
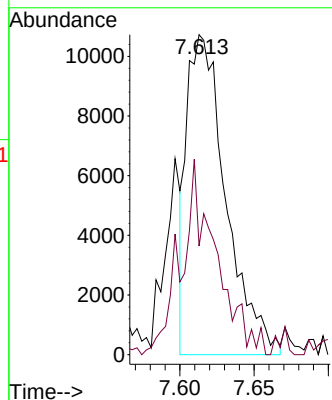
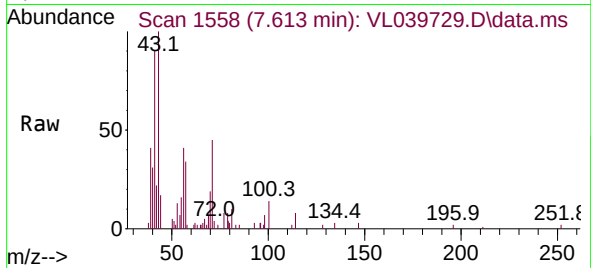




#10
 Heptane
 Concen: 0.131 ppbv
 RT: 7.613 min Scan# 11
 Delta R.T. 0.003 min
 Lab File: VL039729.D
 Acq: 17 Oct 2022 21:17

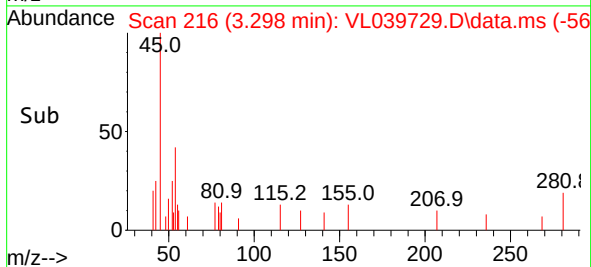
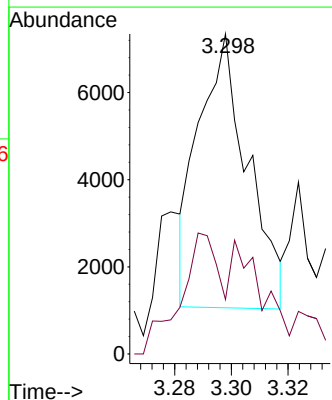
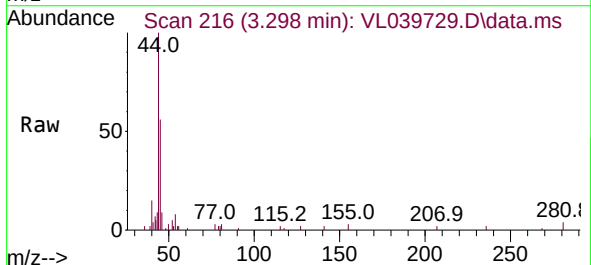
Instrument :
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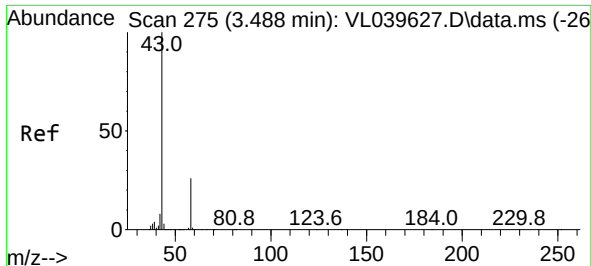
Tgt Ion: 43 Resp: 19607
 Ion Ratio Lower Upper
 43 100
 57 57.7 40.5 60.7



#13
 Ethanol
 Concen: 1.544 ppbv
 RT: 3.298 min Scan# 216
 Delta R.T. 0.016 min
 Lab File: VL039729.D
 Acq: 17 Oct 2022 21:17

Tgt Ion: 45 Resp: 7559
 Ion Ratio Lower Upper
 45 100
 46 70.2 22.8 91.2

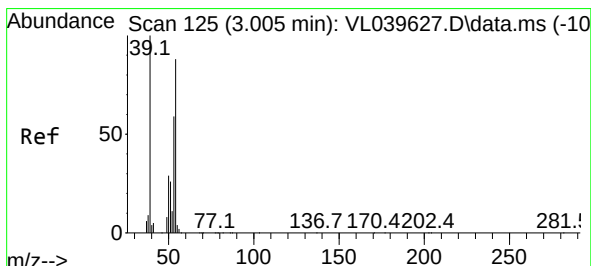
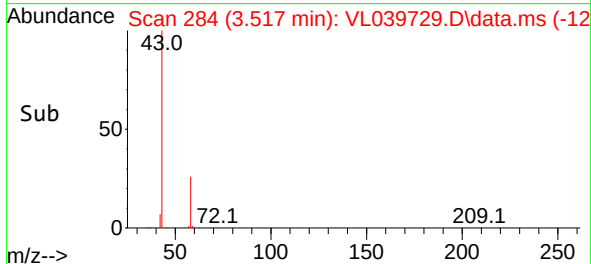
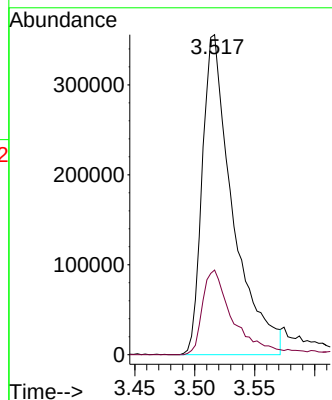
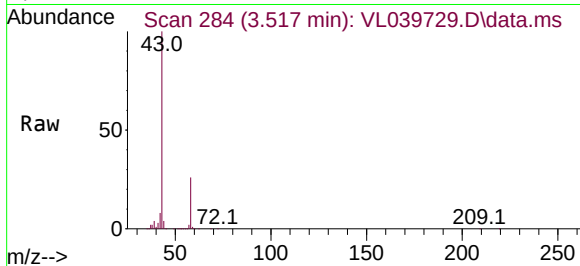




#15
Acetone
Concen: 4.760 ppbv
RT: 3.517 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

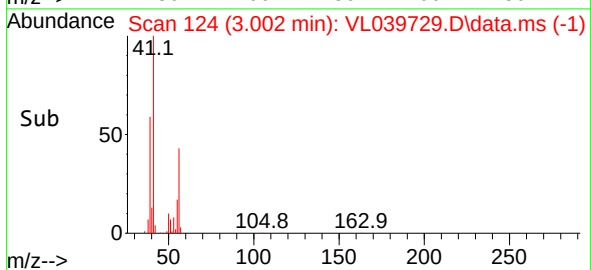
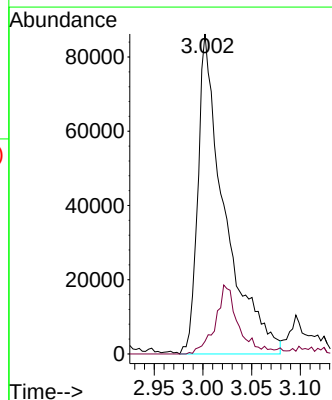
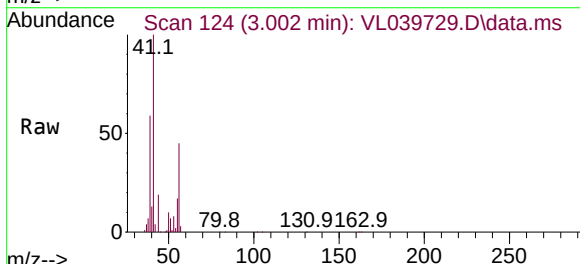
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

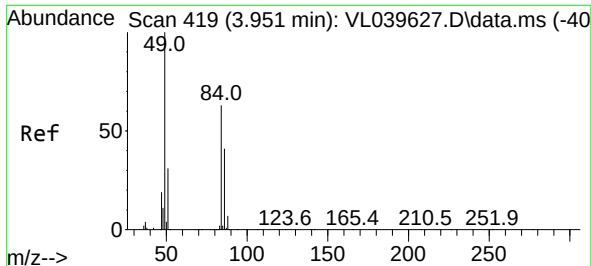
Tgt Ion: 43 Resp: 627848
Ion Ratio Lower Upper
43 100
58 27.7 21.0 31.6



#16
1,3-Butadiene
Concen: 2.461 ppbv
RT: 3.002 min Scan# 124
Delta R.T. -0.019 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 39 Resp: 164651
Ion Ratio Lower Upper
39 100
54 18.4 63.7 95.5#

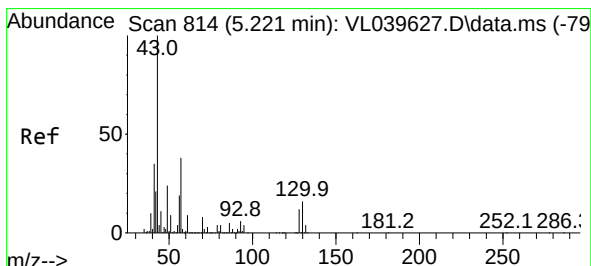
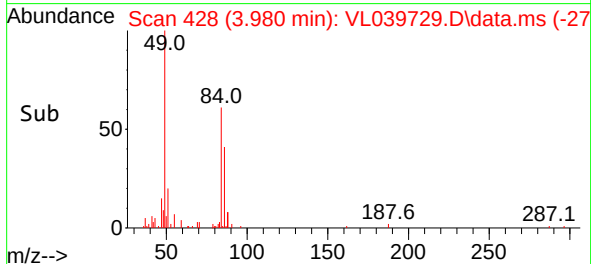
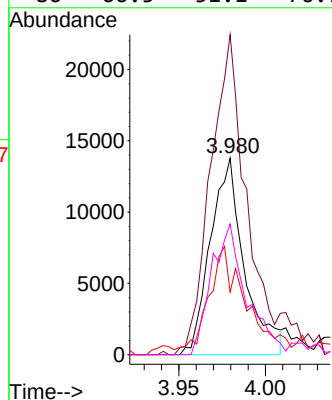
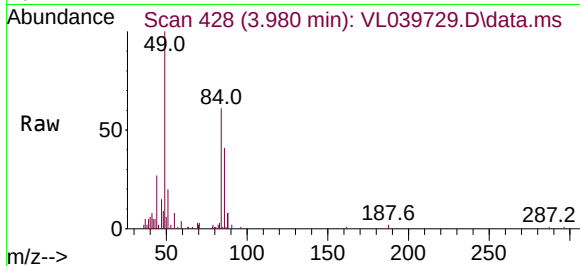




#20
Methylene Chloride
Concen: 0.308 ppbv
RT: 3.980 min Scan# 419
Delta R.T. 0.010 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

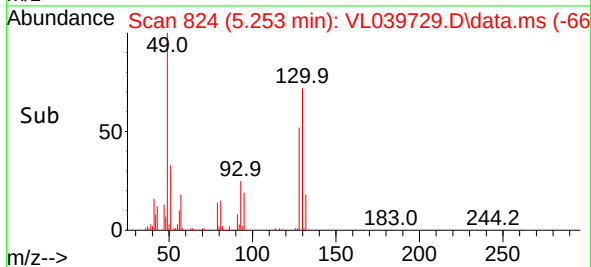
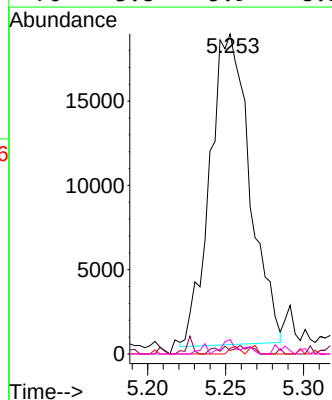
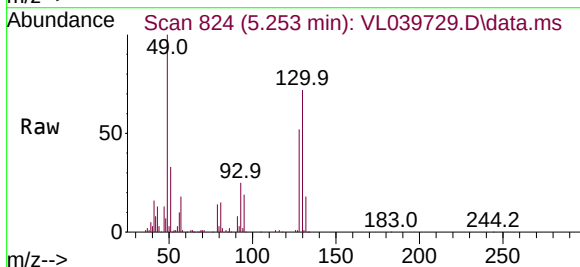
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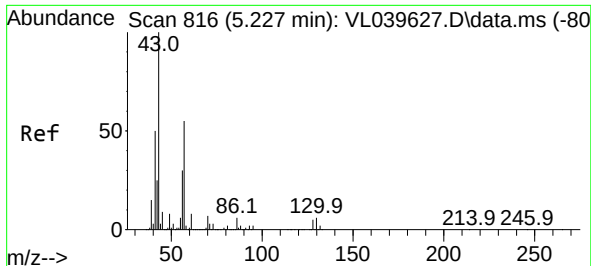
Tgt Ion: 84 Resp: 18808
Ion Ratio Lower Upper
84 100
49 159.3 123.1 184.7
51 28.0 34.4 51.6#
86 66.5 51.1 76.7



#25
Ethyl Acetate
Concen: 0.114 ppbv
RT: 5.253 min Scan# 824
Delta R.T. 0.013 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 43 Resp: 32920
Ion Ratio Lower Upper
43 100
45 1.4 8.2 12.4#
61 1.1 8.3 12.5#
70 3.8 5.9 8.9#

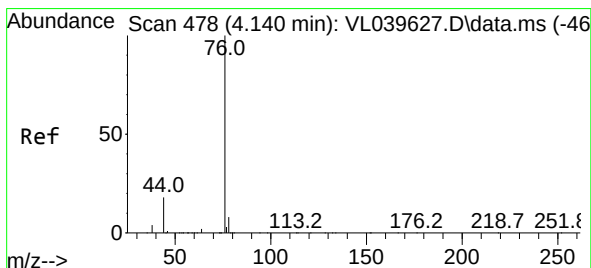
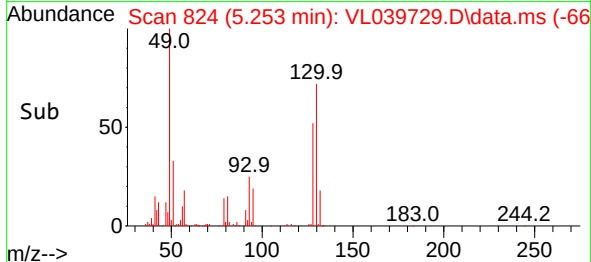
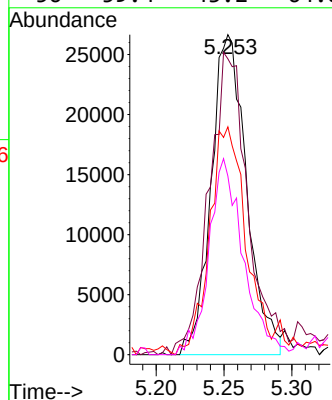
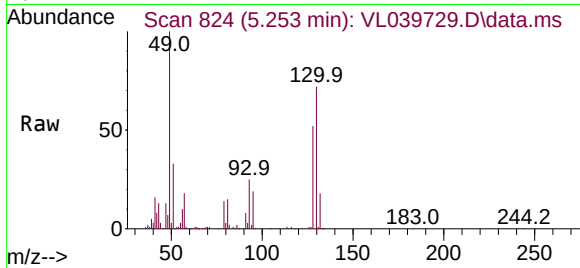




#26
Hexane
Concen: 0.397 ppbv
RT: 5.253 min Scan# 816
Delta R.T. 0.006 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

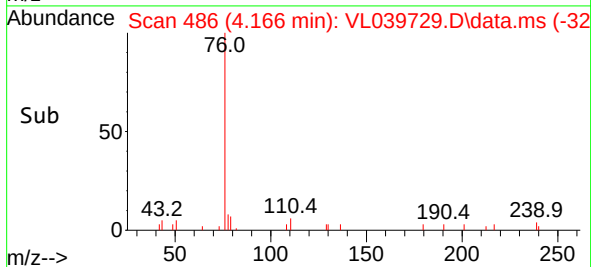
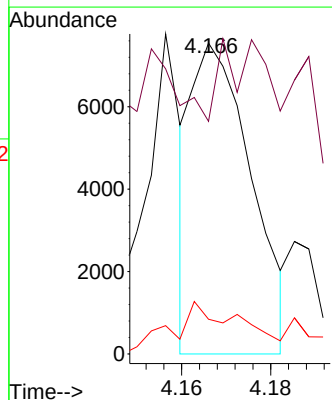
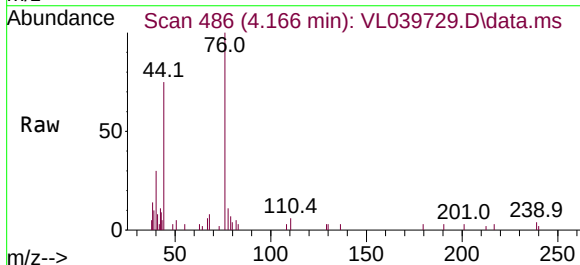
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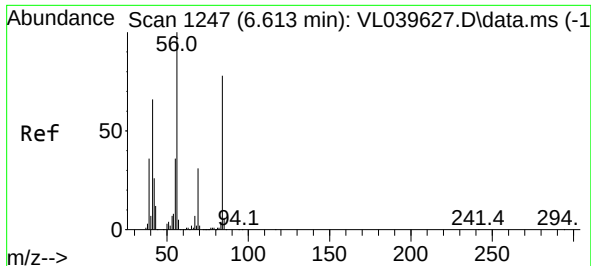
Tgt Ion:	57	Resp:	48487
Ion	Ratio	Lower	Upper
57	100		
41	105.3	76.9	115.3
43	80.6	191.0	286.6#
56	59.4	43.2	64.8



#27
Carbon Disulfide
Concen: 0.055 ppbv
RT: 4.166 min Scan# 486
Delta R.T. 0.006 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion:	76	Resp:	7011
Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.6	21.8#
78	28.1	7.8	11.6#

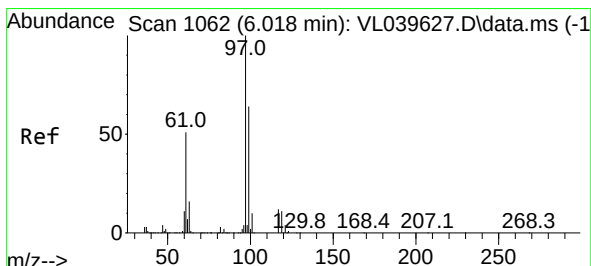
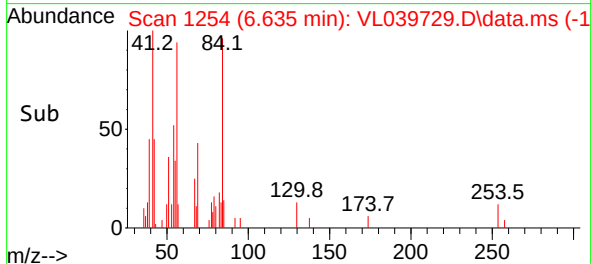
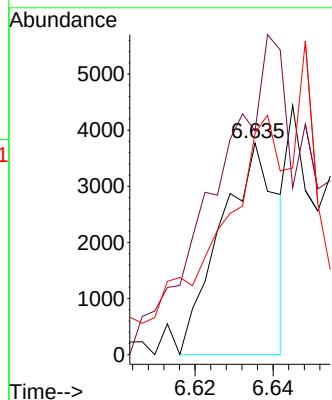
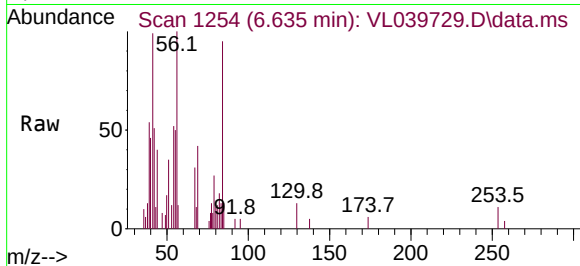




#30
Cyclohexane
Concen: 0.040 ppbv
RT: 6.635 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

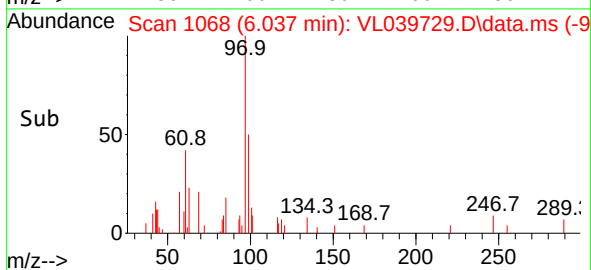
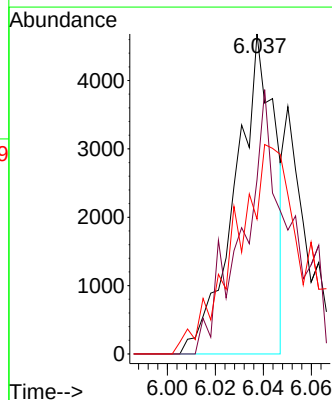
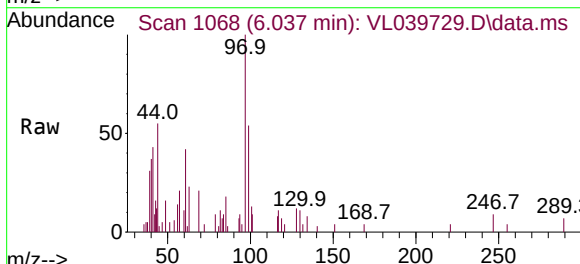
Instrument :
MSVOA_L
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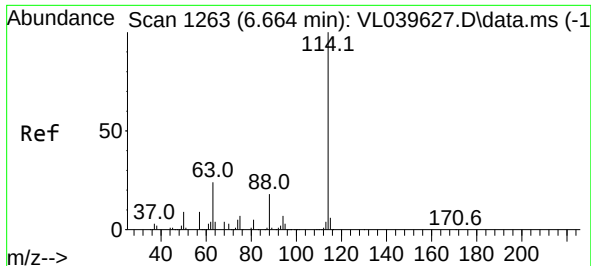
Tgt Ion: 84 Resp: 3759
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 0.0 67.7 101.5#



#32
1,1,1-Trichloroethane
Concen: 0.034 ppbv
RT: 6.037 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 97 Resp: 5386
Ion Ratio Lower Upper
97 100
99 99.1 52.3 78.5#
61 109.4 40.9 61.3#

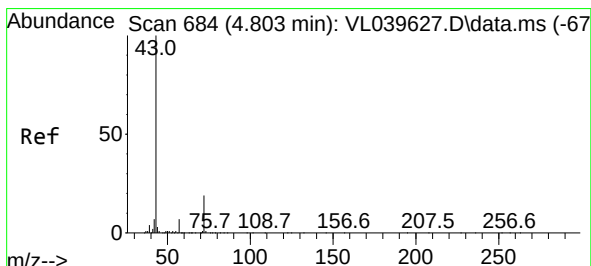
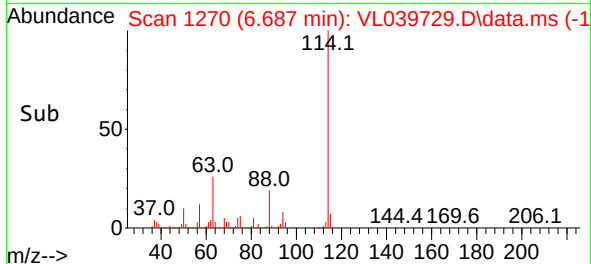
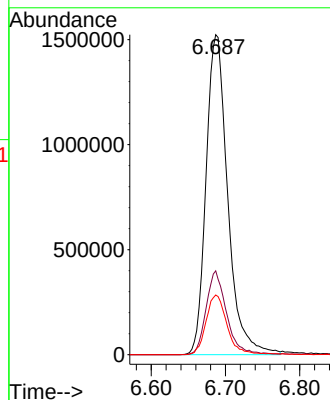
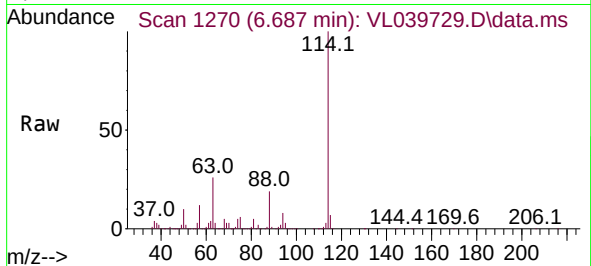




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.687 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

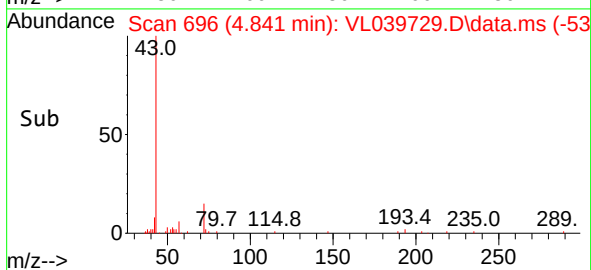
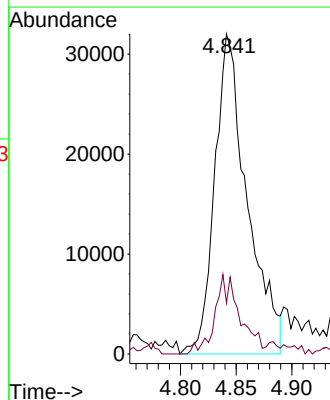
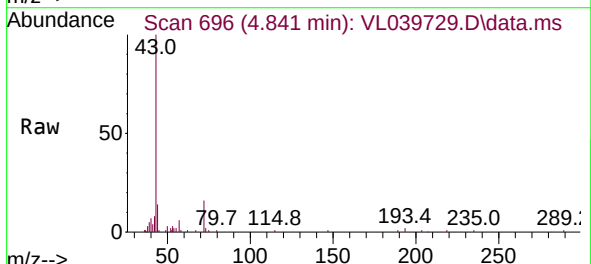
Instrument :
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ClientSampleId :
SV2DL

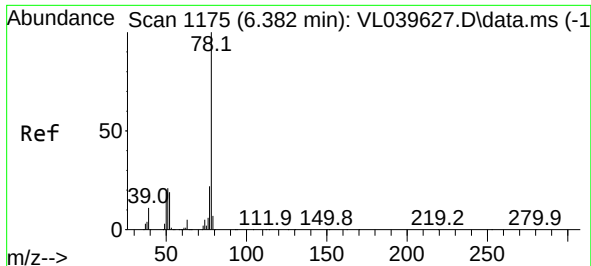
Tgt Ion:114 Resp: 3085833
Ion Ratio Lower Upper
114 100
63 25.0 20.2 30.4
88 18.4 14.5 21.7



#34
2-Butanone
Concen: 0.429 ppbv
RT: 4.841 min Scan# 696
Delta R.T. 0.019 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 43 Resp: 64982
Ion Ratio Lower Upper
43 100
72 21.7 17.9 26.9

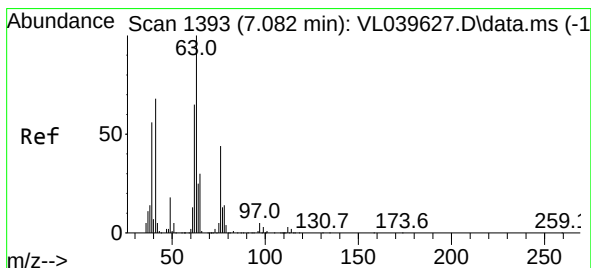
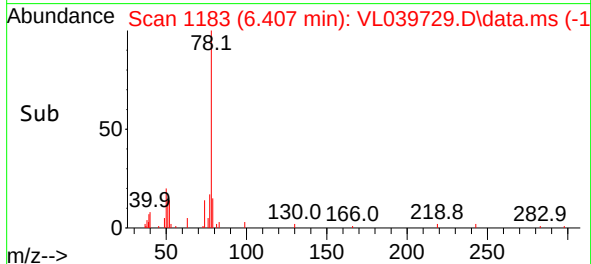
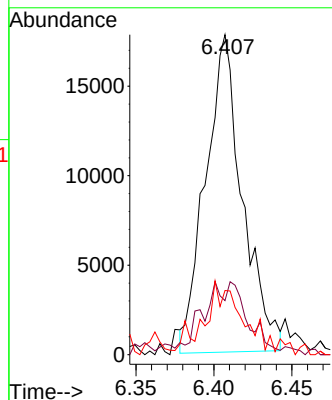
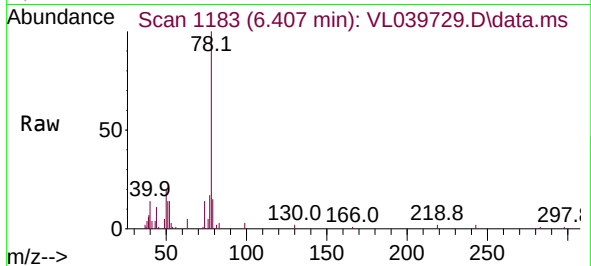




#36
Benzene
Concen: 0.124 ppbv
RT: 6.407 min Scan# 1175
Delta R.T. 0.006 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

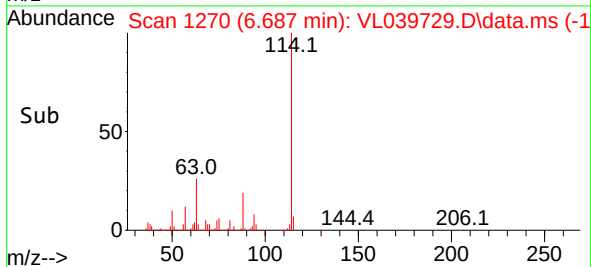
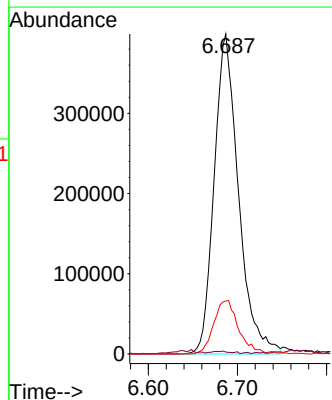
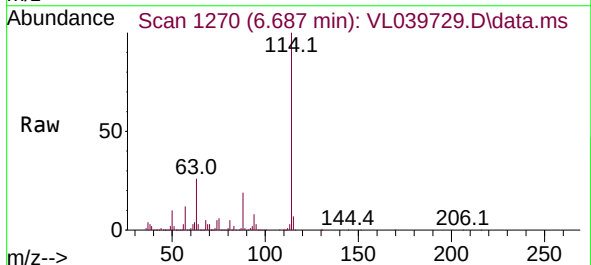
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

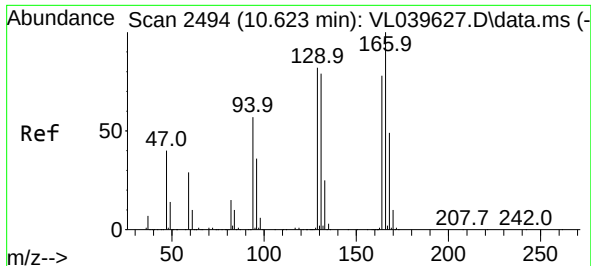
Tgt Ion: 78 Resp: 29146
Ion Ratio Lower Upper
78 100
77 16.7 20.3 30.5#
50 18.1 15.5 23.3



#39
1,2-Dichloropropane
Concen: 8.293 ppbv
RT: 6.687 min Scan# 1270
Delta R.T. -0.418 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 63 Resp: 755470
Ion Ratio Lower Upper
63 100
41 0.2 59.6 89.4#
62 16.6 51.4 77.0#

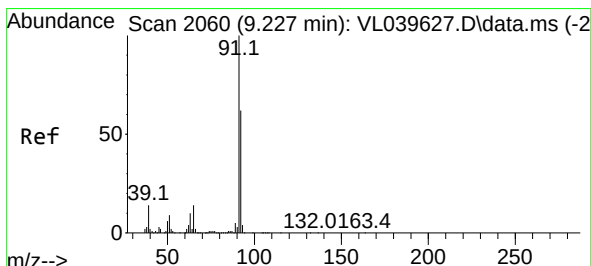
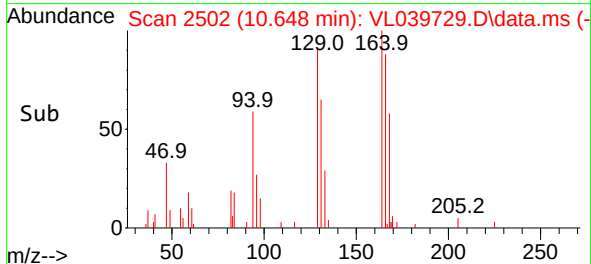
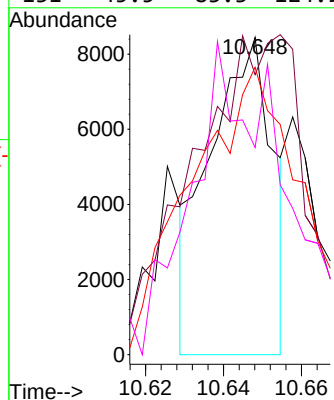
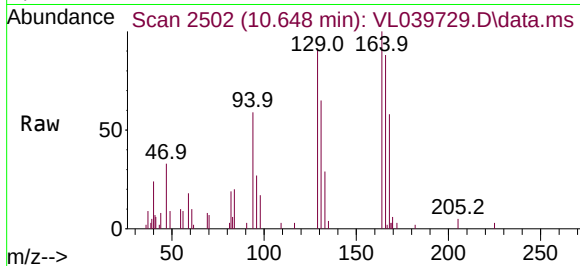




#52
Tetrachloroethene
Concen: 0.105 ppbv
RT: 10.648 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

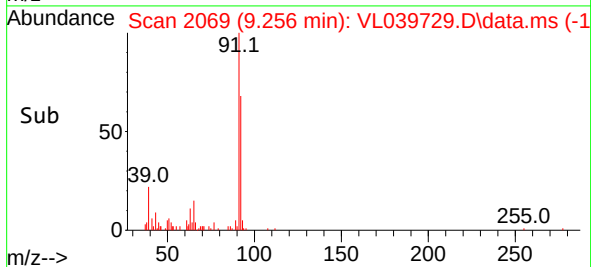
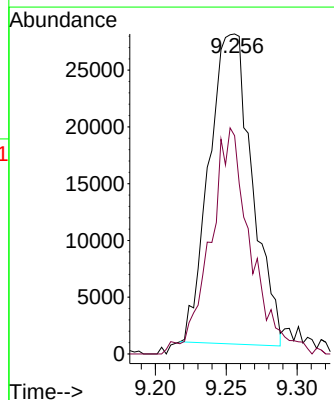
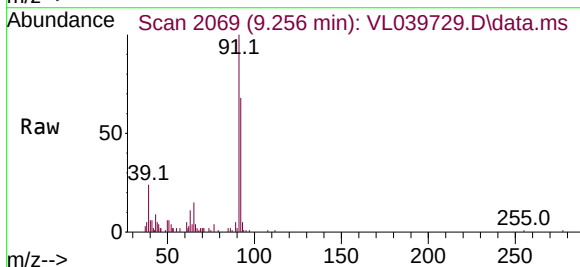
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

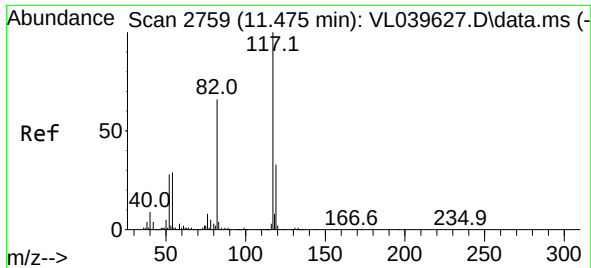
Tgt Ion:164 Resp: 9448
Ion Ratio Lower Upper
164 100
166 78.7 102.2 153.2#
129 69.7 85.8 128.8#
131 45.5 83.3 124.9#



#53
Toluene
Concen: 0.221 ppbv
RT: 9.256 min Scan# 2069
Delta R.T. 0.006 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 91 Resp: 57864
Ion Ratio Lower Upper
91 100
92 69.6 48.2 72.2

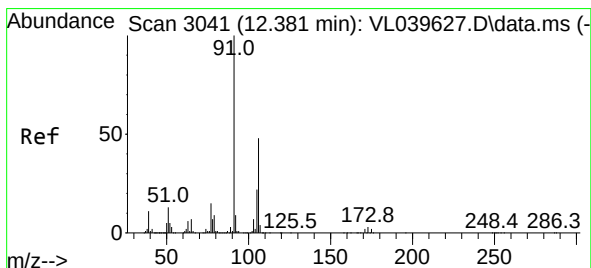
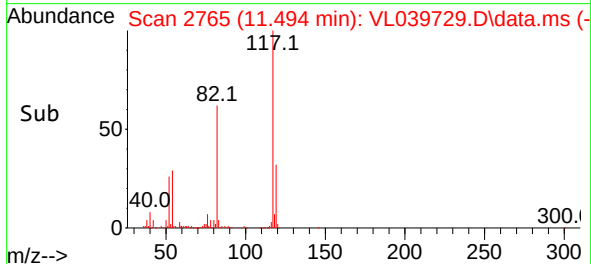
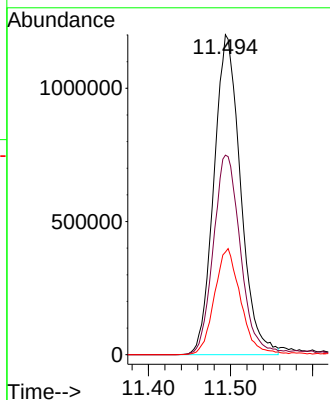
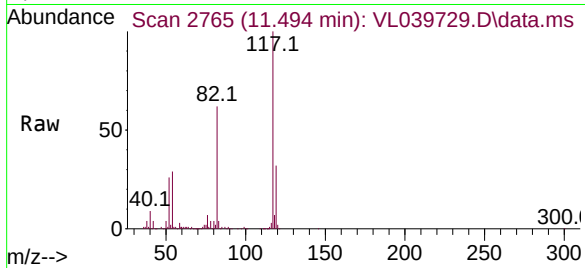




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

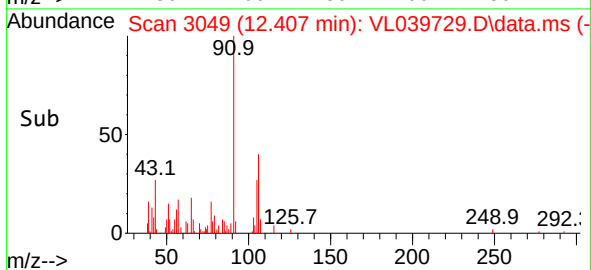
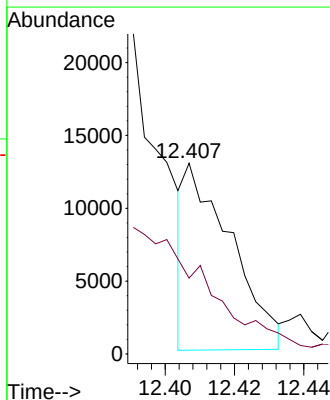
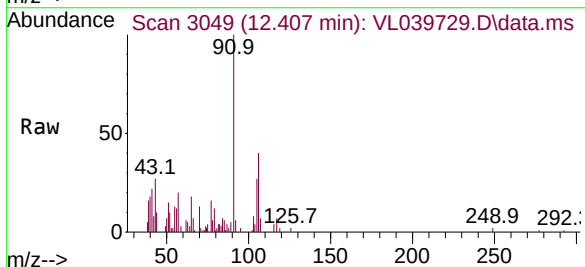
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

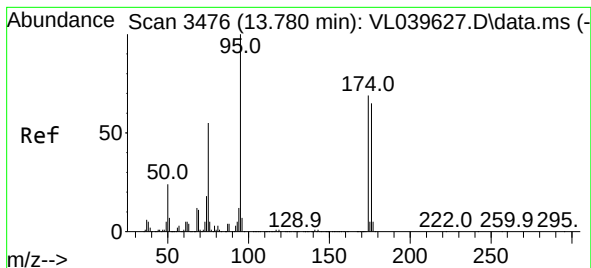
Tgt Ion:117 Resp: 2712927
Ion Ratio Lower Upper
117 100
82 65.4 50.8 76.2
119 33.6 24.1 36.1



#59
m/p-Xylene
Concen: 0.043 ppbv
RT: 12.407 min Scan# 3049
Delta R.T. 0.006 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 91 Resp: 11975
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

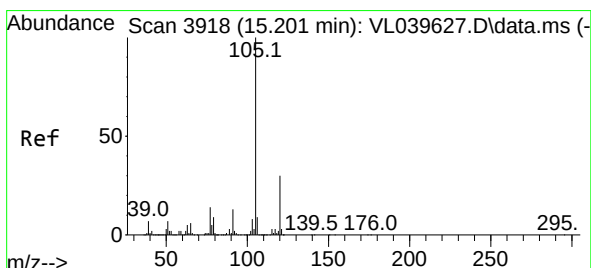
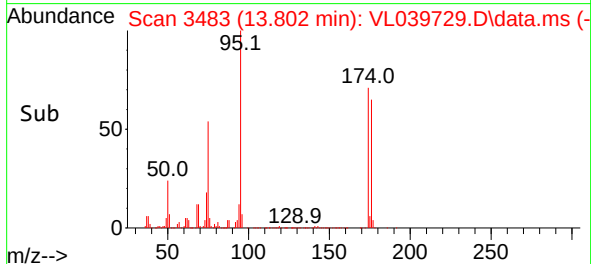
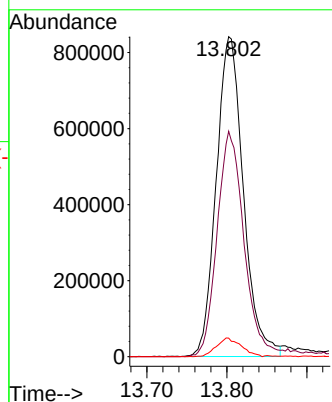
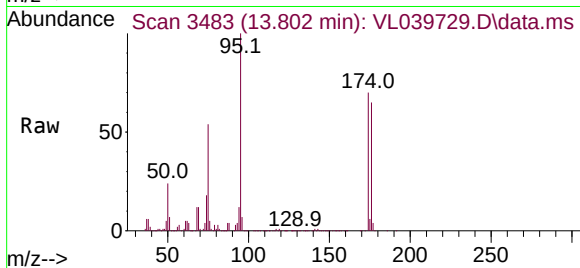




#68
1-Bromo-4-Fluorobenzene
Concen: 9.790 ppbv
RT: 13.802 min Scan# 3476
Delta R.T. 0.003 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

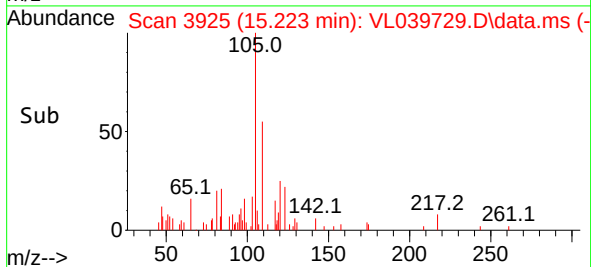
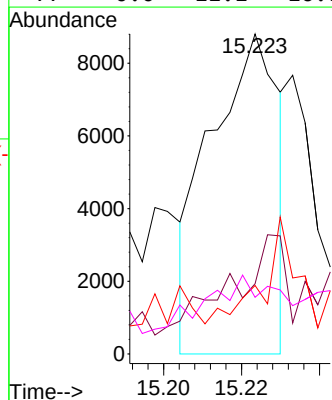
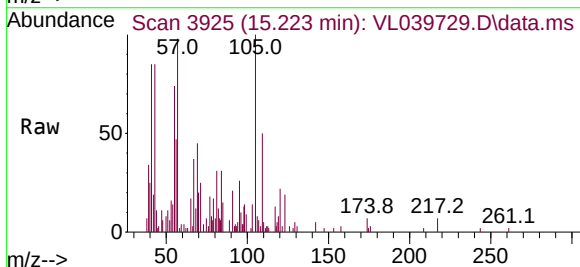
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

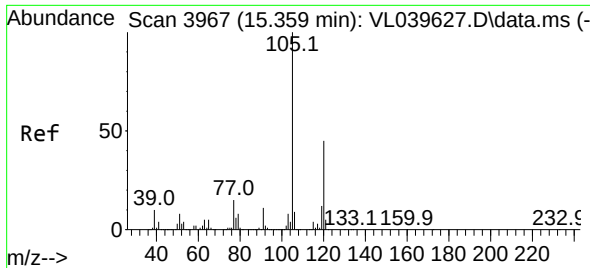
Tgt Ion: 95 Resp: 1982607
Ion Ratio Lower Upper
95 100
174 71.4 55.9 83.9
175 5.5 4.2 6.4



#72
4-Ethyltoluene
Concen: 0.035 ppbv
RT: 15.223 min Scan# 3925
Delta R.T. 0.003 min
Lab File: VL039729.D
Acq: 17 Oct 2022 21:17

Tgt Ion: 105 Resp: 10647
Ion Ratio Lower Upper
105 100
120 0.0 24.2 36.2#
91 0.0 10.2 15.4#
77 0.0 11.1 16.7#





#73
 1,3,5-Trimethylbenzene
 Concen: 0.043 ppbv
 RT: 15.381 min Scan# 3967
 Delta R.T. 0.003 min
 Lab File: VL039729.D
 Acq: 17 Oct 2022 21:17

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tgt Ion:105 Resp: 11818
 Ion Ratio Lower Upper
 105 100
 120 51.5 38.2 57.4

