

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL040595.D
 Acq On : 7 Aug 2023 12:34
 Operator : SY/MD
 Sample : 03861-01DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E065-1100DL

Quant Time: Aug 08 01:40:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

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

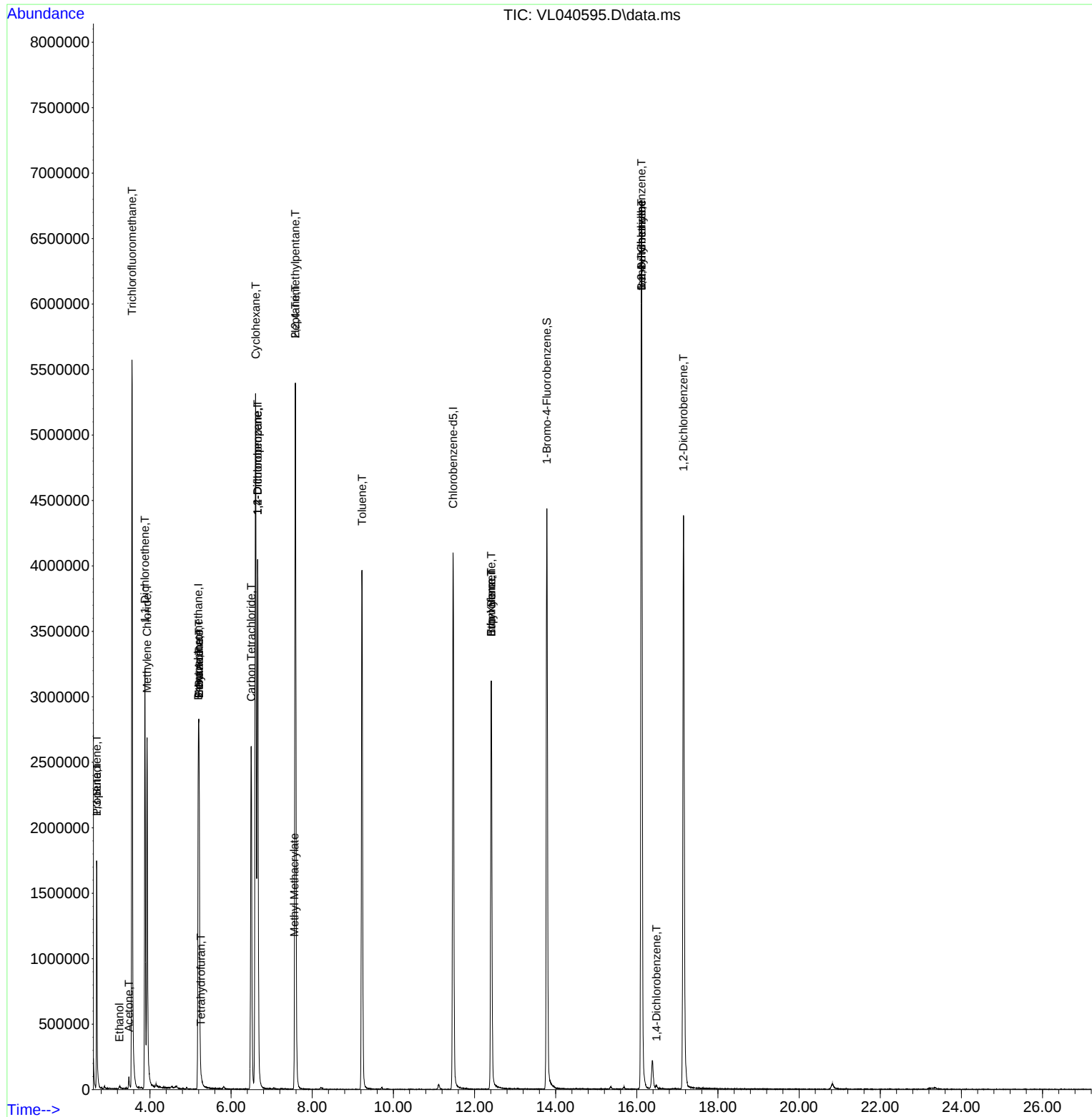
Internal Standards							
1)	Bromochloromethane	5.192	49	1110125	10.000	ppbv	-0.01
33)	1,4-Difluorobenzene	6.655	114	2805953	10.000	ppbv	0.00
55)	Chlorobenzene-d5	11.471	117	2460782	10.000	ppbv	0.00
System Monitoring Compounds							
68)	1-Bromo-4-Fluorobenzene	13.783	95	2100723	10.786	ppbv	0.00
Spiked Amount 10.000		Range	65 - 135	Recovery	=	107.900%	
Target Compounds							Qvalue
9)	Propene	2.687	41	660600	10.966	ppbv	98
10)	Heptane	7.584	43	2427255	18.248	ppbv	99
11)	Trichlorofluoromethane	3.558	101	3748132	20.919	ppbv	100
13)	Ethanol	3.250	45	8579	0.655	ppbv #	1
15)	Acetone	3.481	43	81895	0.641	ppbv	96
16)	1,3-Butadiene	2.687	39	581349	9.018	ppbv #	8
18)	1,1-Dichloroethene	3.877	96	914209	15.759	ppbv	96
20)	Methylene Chloride	3.931	84	899468	16.548	ppbv	99
25)	Ethyl Acetate	5.211	43	503557	2.070	ppbv #	76
26)	Hexane	5.211	57	736946	6.521	ppbv #	40
30)	Cyclohexane	6.606	84	1927302	20.494	ppbv	94
34)	2-Butanone	5.211	43	503557	3.632	ppbv #	51
35)	Carbon Tetrachloride	6.497	117	1617665	9.580	ppbv	97
39)	1,2-Dichloropropane	6.655	63	720474	8.290	ppbv #	30
41)	Tetrahydrofuran	5.256	42	3322	0.041	ppbv #	34
43)	Methyl Methacrylate	7.558	69	7857	0.093	ppbv #	1
44)	2,2,4-Trimethylpentane	7.584	57	1267609	3.490	ppbv #	1
49)	Bromoform	12.413	173	1616984	13.757	ppbv	99
53)	Toluene	9.227	91	3072710	12.529	ppbv	100
58)	Ethyl Benzene	12.413	91	537681	1.741	ppbv #	43
59)	m/p-Xylene	12.413	91	537681	1.951	ppbv #	32
65)	tert-Butylbenzene	16.117	119	574427	1.649	ppbv #	54
66)	Benzyl Chloride	16.114	91	700412	28.418	ppbv #	63
74)	1,2,4-Trimethylbenzene	16.117	105	5362903	16.954	ppbv #	66
76)	1,4-Dichlorobenzene	16.484	146	5814	0.031	ppbv #	56
77)	1,2-Dichlorobenzene	17.149	146	2211169	12.058	ppbv	98

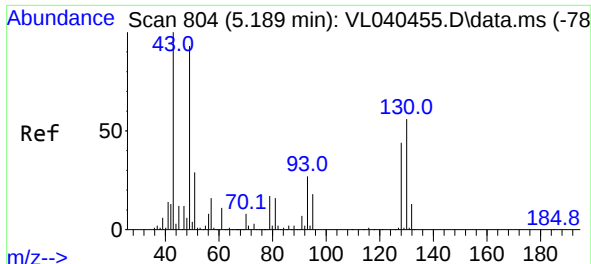
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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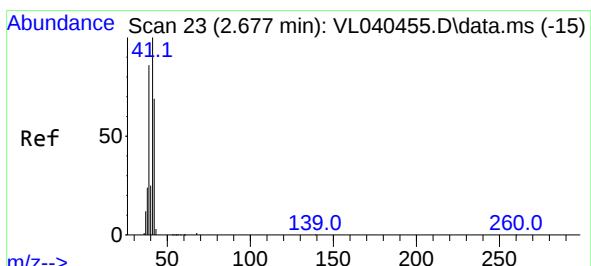
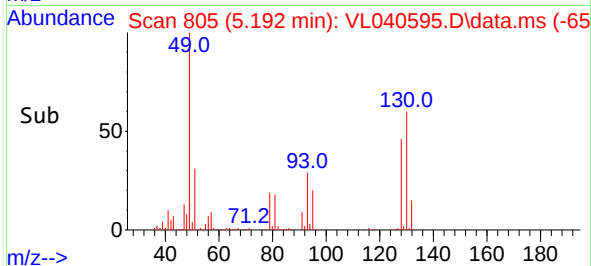
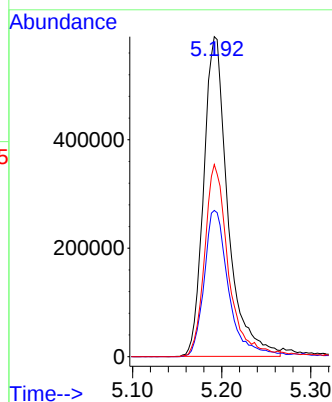
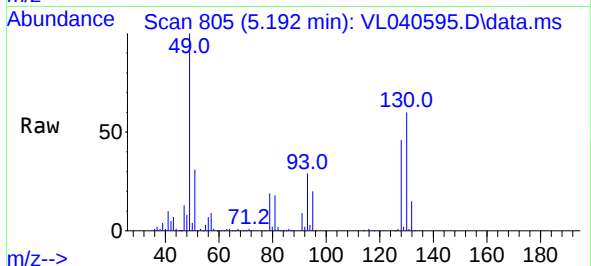




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

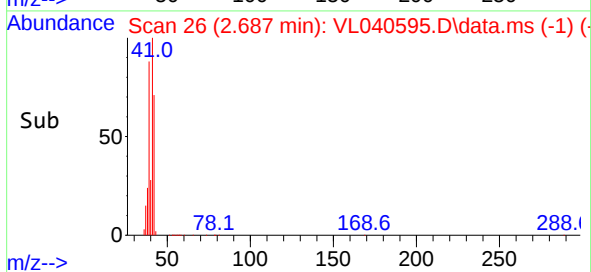
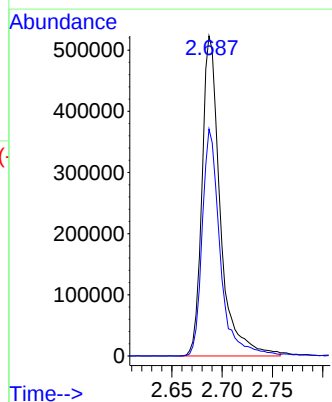
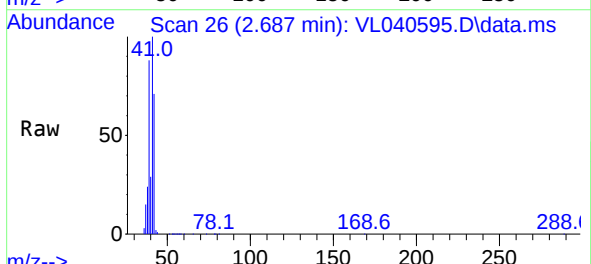
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

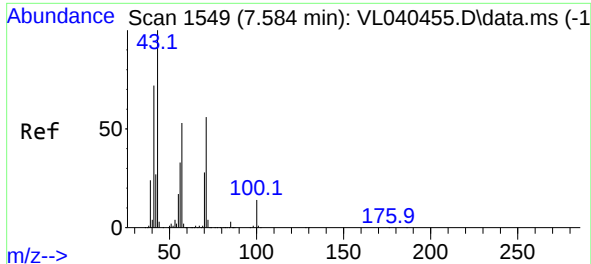
Tgt Ion: 49 Resp: 1110125
Ion Ratio Lower Upper
49 100
128 46.5 25.1 75.4
130 60.8 31.6 94.7



#9
Propene
Concen: 10.966 ppbv
RT: 2.687 min Scan# 26
Delta R.T. -0.016 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 41 Resp: 660600
Ion Ratio Lower Upper
41 100
42 70.5 55.0 82.6

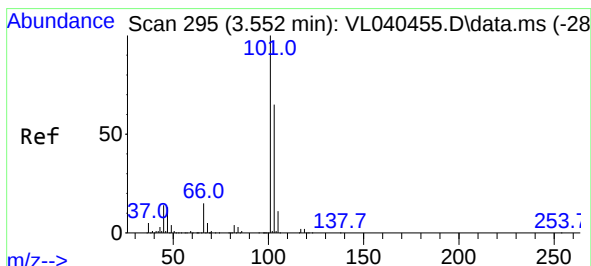
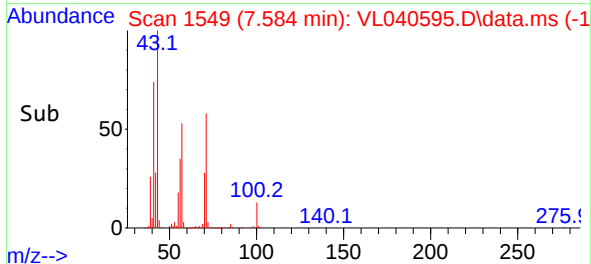
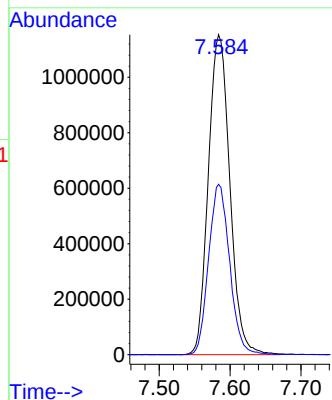
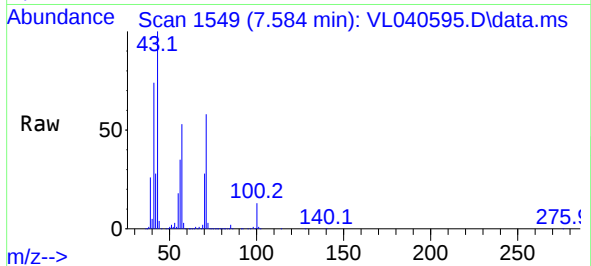




#10
Heptane
Concen: 18.248 ppbv
RT: 7.584 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

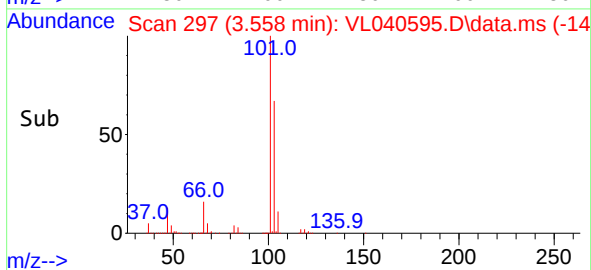
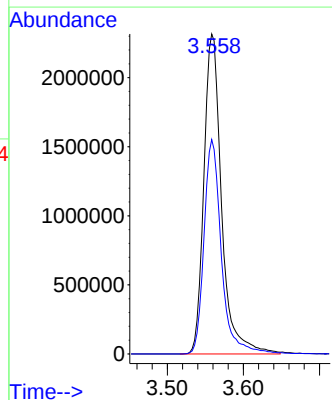
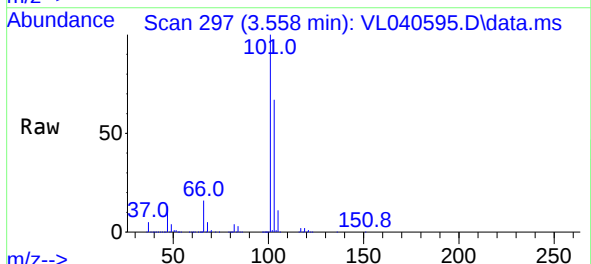
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

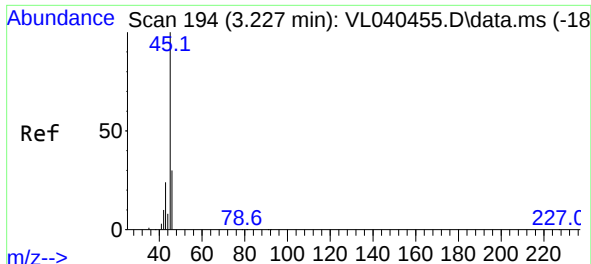
Tgt Ion: 43 Resp: 2427255
Ion Ratio Lower Upper
43 100
57 52.3 42.5 63.7



#11
Trichlorofluoromethane
Concen: 20.919 ppbv
RT: 3.558 min Scan# 297
Delta R.T. -0.013 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion:101 Resp: 3748132
Ion Ratio Lower Upper
101 100
103 67.0 53.4 80.0

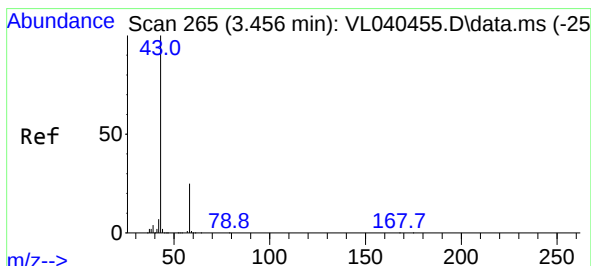
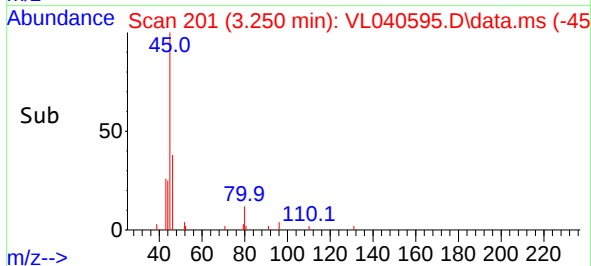
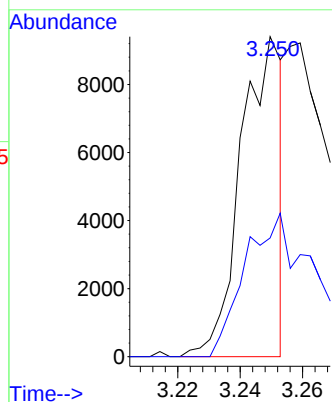
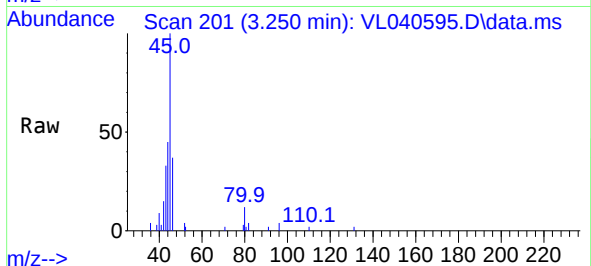




#13
Ethanol
Concen: 0.655 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.003 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

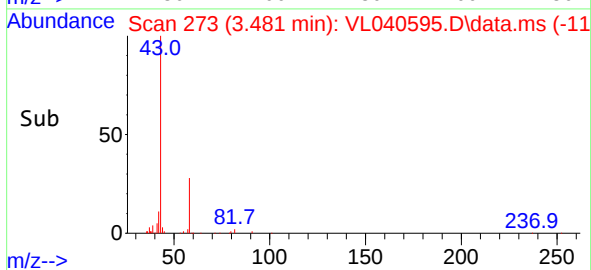
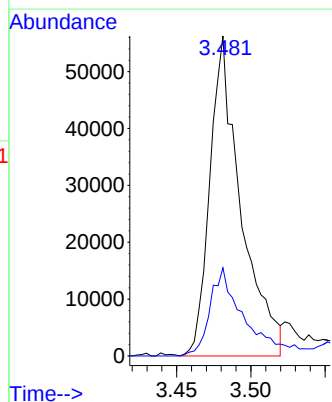
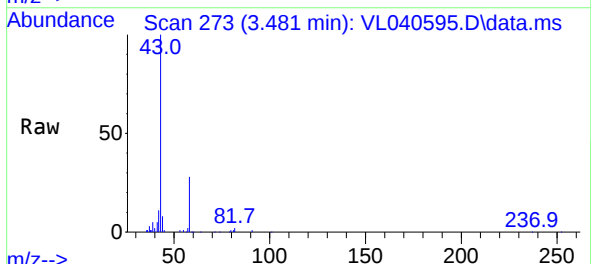
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

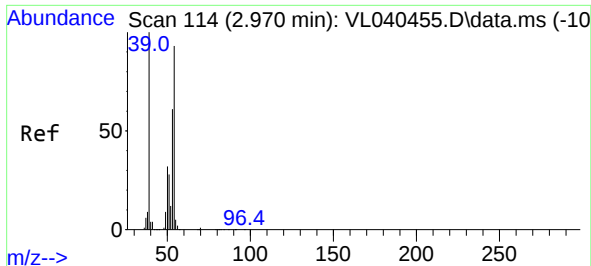
Tgt Ion: 45 Resp: 8579
Ion Ratio Lower Upper
45 100
46 100.1 15.3 61.1#



#15
Acetone
Concen: 0.641 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.006 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 43 Resp: 81895
Ion Ratio Lower Upper
43 100
58 30.7 22.9 34.3





#16

1,3-Butadiene

Concen: 9.018 ppbv

RT: 2.687 min Scan# 20

Delta R.T. -0.306 min

Lab File: VL040595.D

Acq: 7 Aug 2023 12:34

Instrument :

MSVOA_L

ClientSampleId :

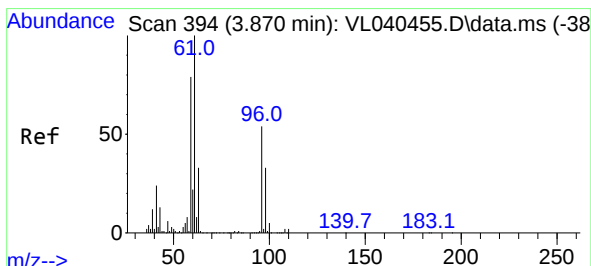
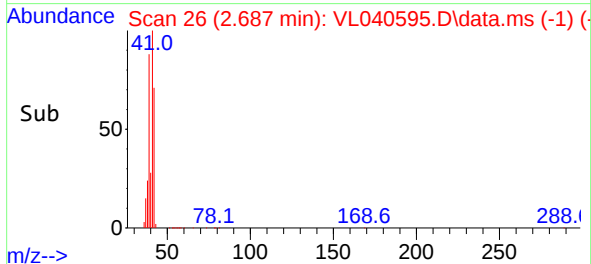
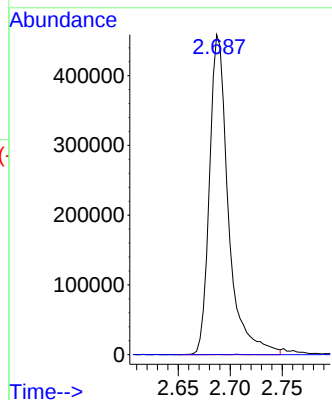
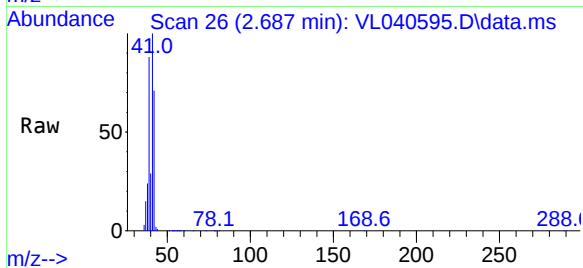
E065-1100DL

Tgt Ion: 39 Resp: 581349

Ion Ratio Lower Upper

39 100

54 0.1 66.6 100.0#



#18

1,1-Dichloroethene

Concen: 15.759 ppbv

RT: 3.877 min Scan# 396

Delta R.T. -0.013 min

Lab File: VL040595.D

Acq: 7 Aug 2023 12:34

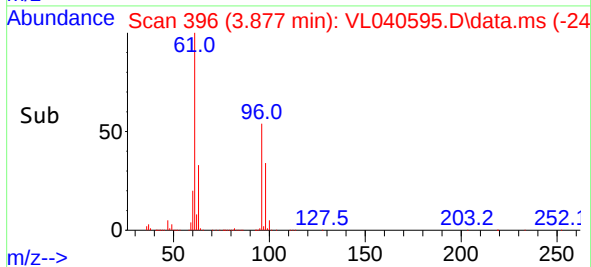
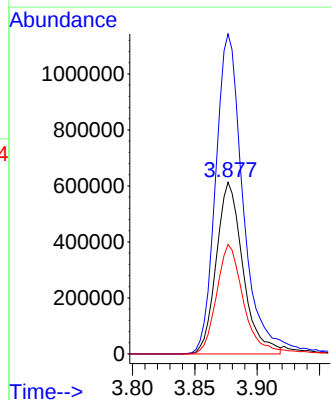
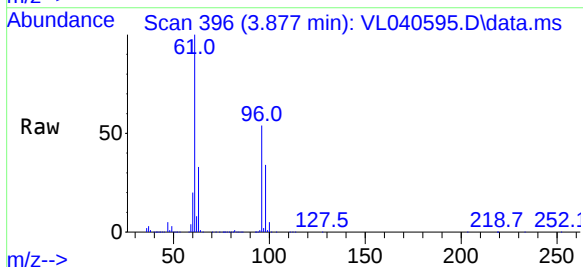
Tgt Ion: 96 Resp: 914209

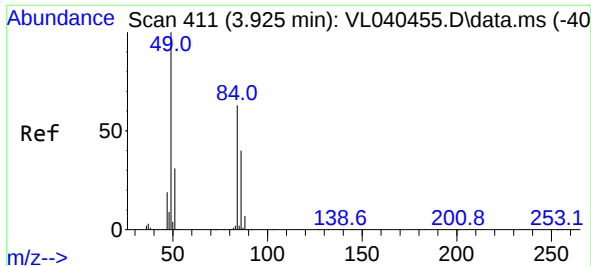
Ion Ratio Lower Upper

96 100

61 186.4 154.4 231.6

98 63.8 50.0 75.0



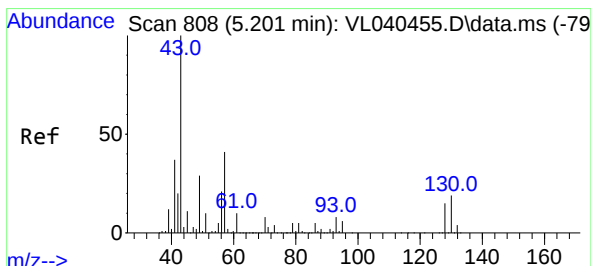
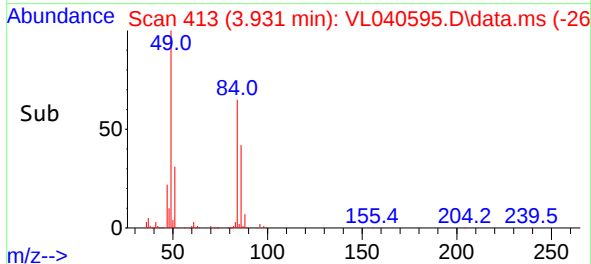
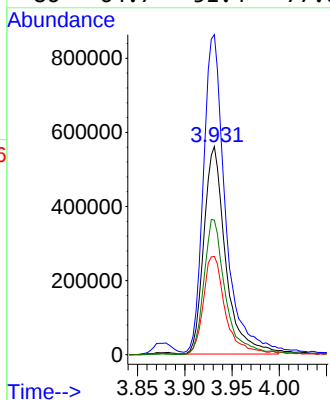
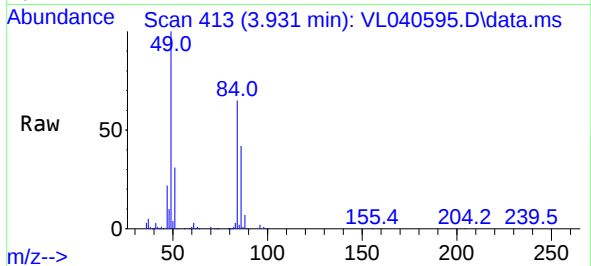


#20
Methylene Chloride
Concen: 16.548 ppbv
RT: 3.931 min Scan# 411
Delta R.T. -0.010 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

Tgt Ion: 84 Resp: 899468

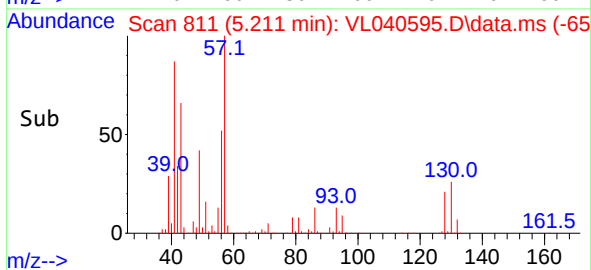
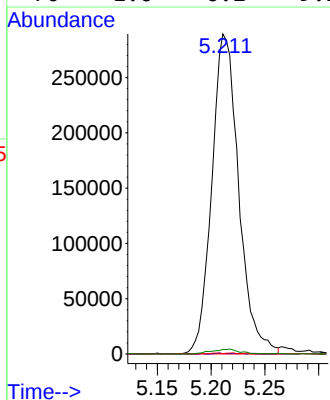
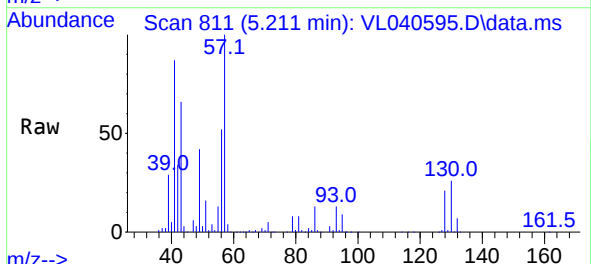
Ion	Ratio	Lower	Upper
84	100		
49	152.2	123.4	185.2
51	47.2	38.3	57.5
86	64.7	51.4	77.0

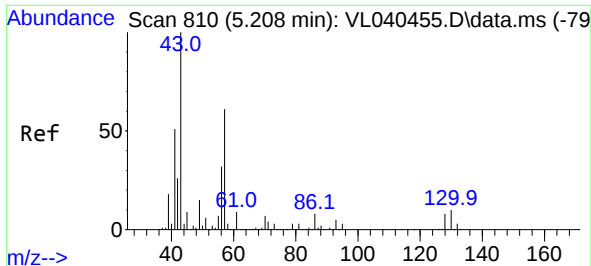


#25
Ethyl Acetate
Concen: 2.070 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.000 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 43 Resp: 503557

Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.2	12.4#
61	0.4	8.3	12.5#
70	1.6	6.2	9.2#

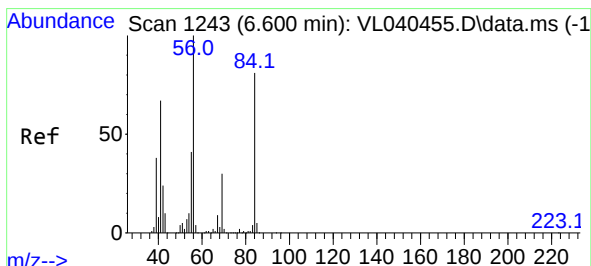
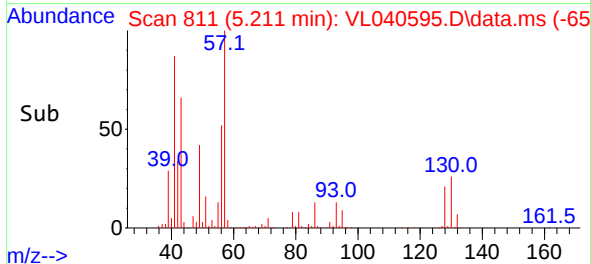
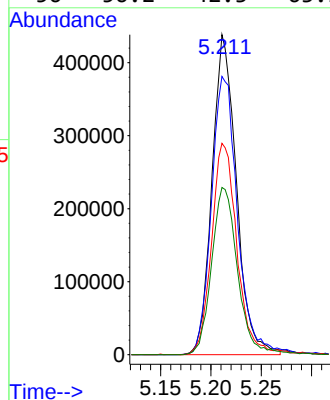
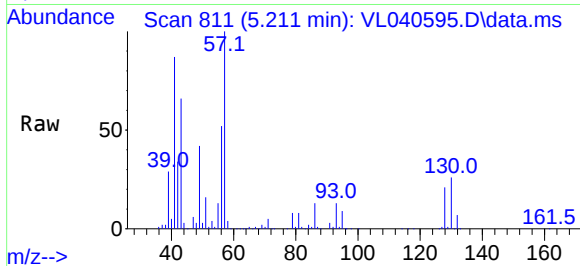




#26
Hexane
Concen: 6.521 ppbv
RT: 5.211 min Scan# 81
Delta R.T. -0.010 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

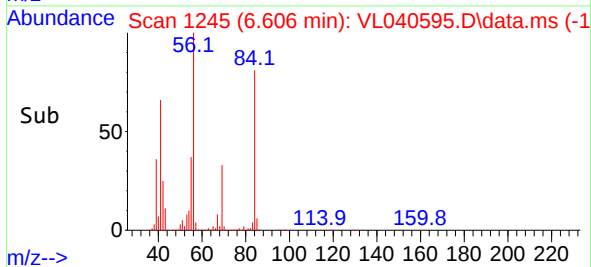
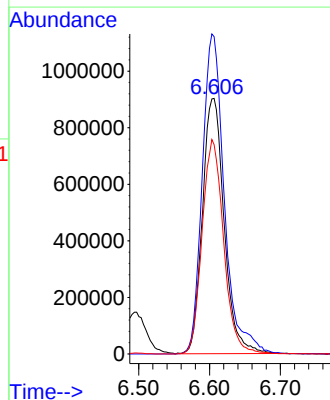
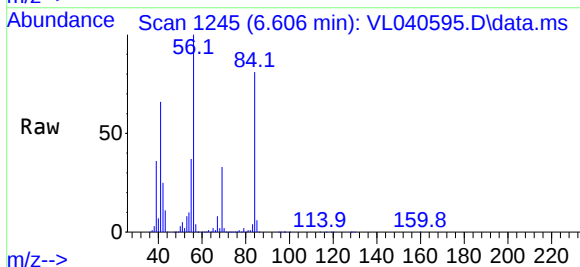
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

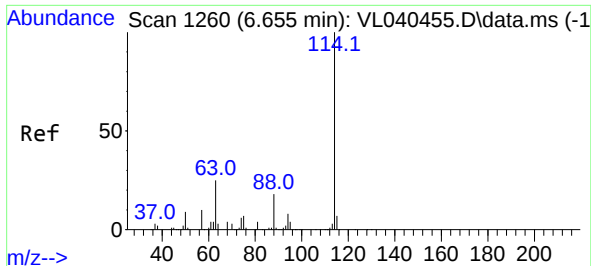
Tgt Ion: 57 Resp: 736946
Ion Ratio Lower Upper
57 100
41 94.1 69.5 104.3
43 69.7 177.1 265.7#
56 56.2 42.3 63.5



#30
Cyclohexane
Concen: 20.494 ppbv
RT: 6.606 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 84 Resp: 1927302
Ion Ratio Lower Upper
84 100
56 127.3 108.7 163.1
41 83.2 64.5 96.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL040595.D

Acq: 7 Aug 2023 12:34

Instrument :

MSVOA_L

ClientSampleId :

E065-1100DL

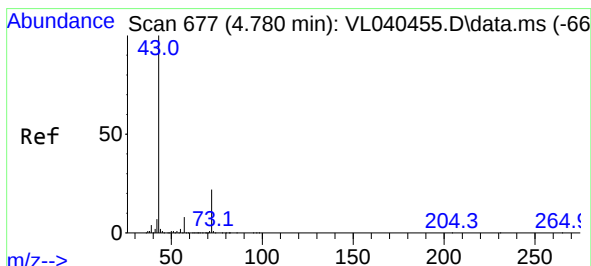
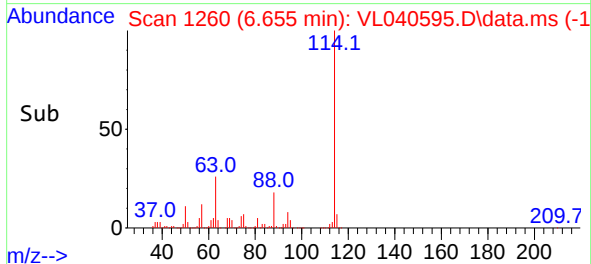
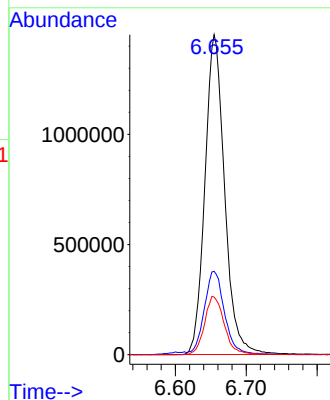
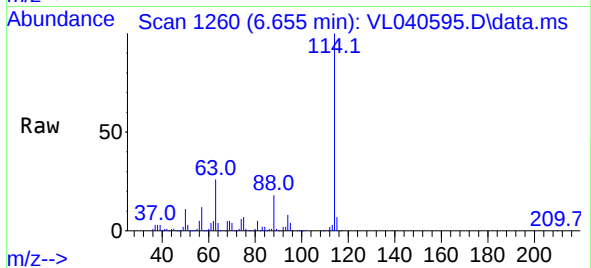
Tgt Ion:114 Resp: 2805953

Ion Ratio Lower Upper

114 100

63 27.6 19.6 29.4

88 18.3 14.2 21.2



#34

2-Butanone

Concen: 3.632 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.418 min

Lab File: VL040595.D

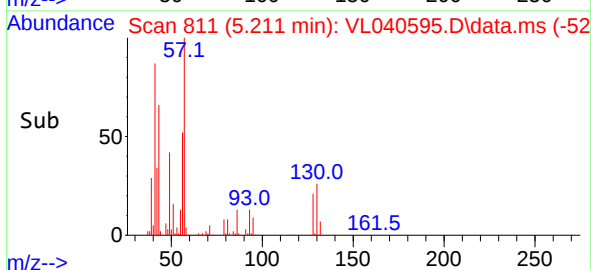
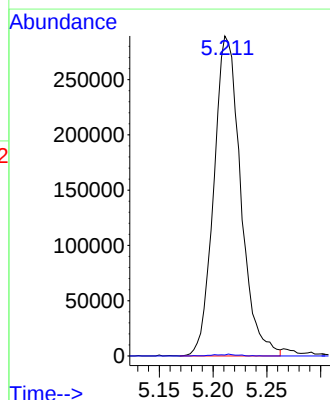
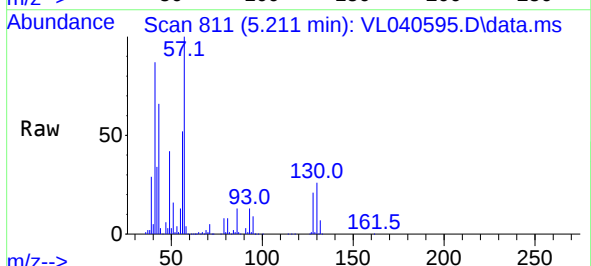
Acq: 7 Aug 2023 12:34

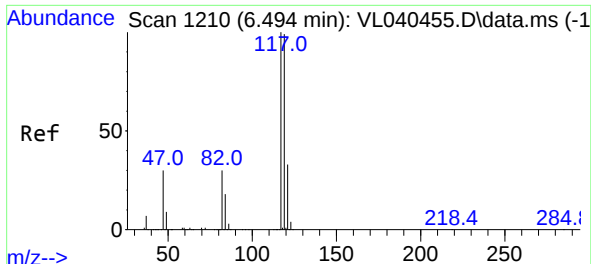
Tgt Ion: 43 Resp: 503557

Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#

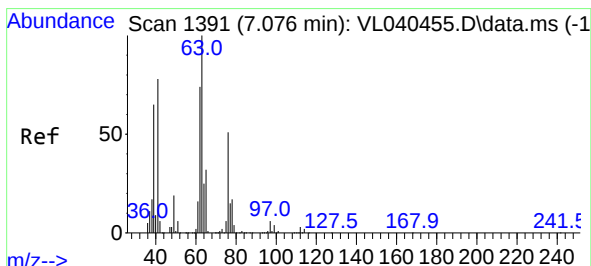
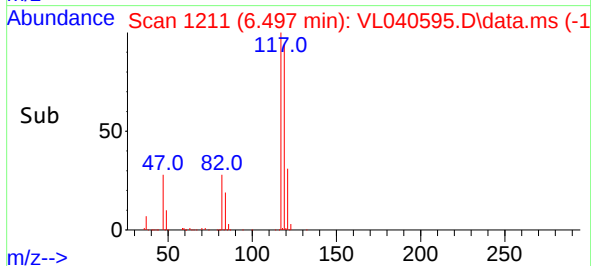
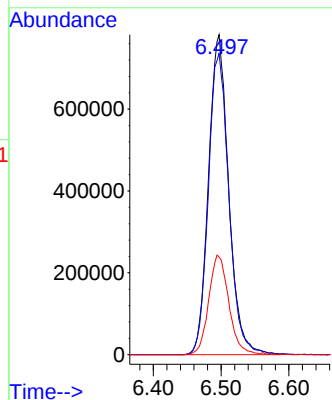
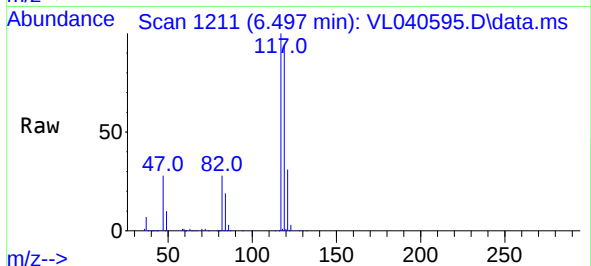




#35
Carbon Tetrachloride
Concen: 9.580 ppbv
RT: 6.497 min Scan# 117
Delta R.T. -0.007 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

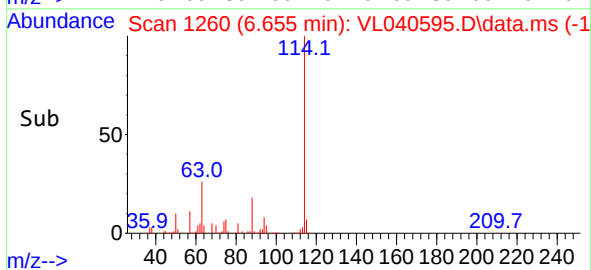
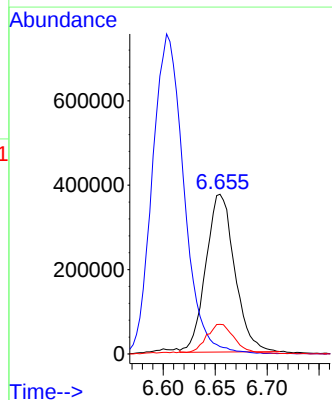
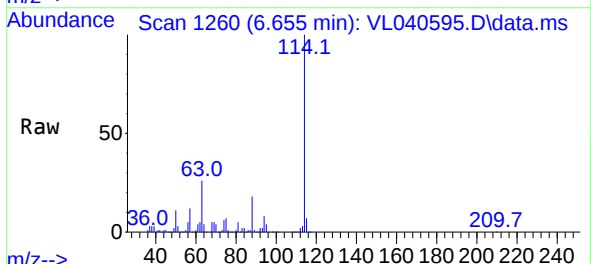
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

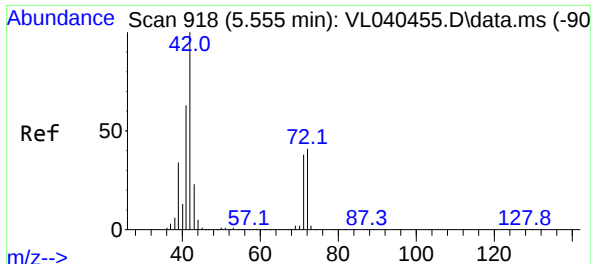
Tgt Ion:117 Resp: 1617665
Ion Ratio Lower Upper
117 100
119 94.1 77.8 116.6
121 30.5 24.8 37.2



#39
1,2-Dichloropropane
Concen: 8.290 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.428 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 63 Resp: 720474
Ion Ratio Lower Upper
63 100
41 4.3 54.3 81.5#
62 18.5 55.6 83.4#

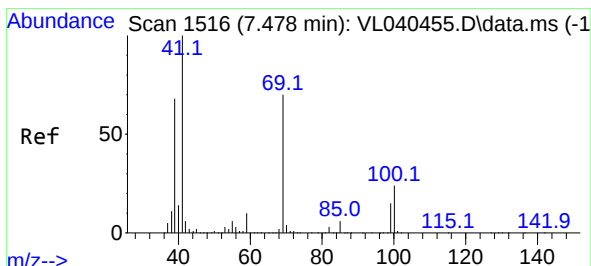
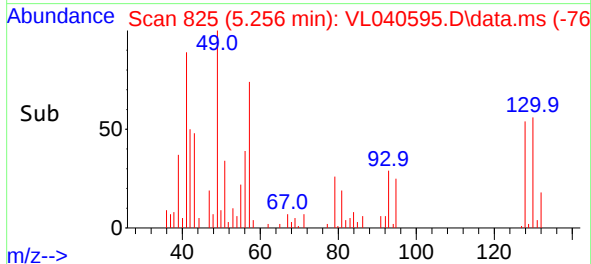
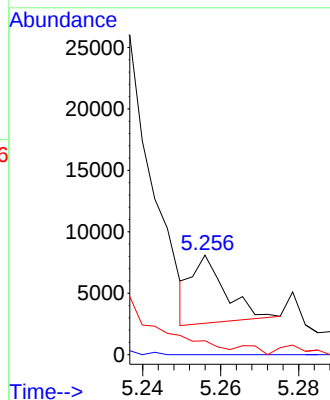
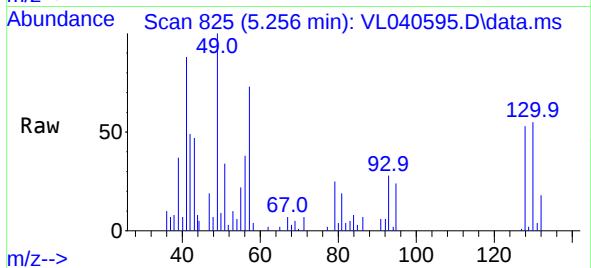




#41
Tetrahydrofuran
Concen: 0.041 ppbv
RT: 5.256 min Scan# 81
Delta R.T. -0.309 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

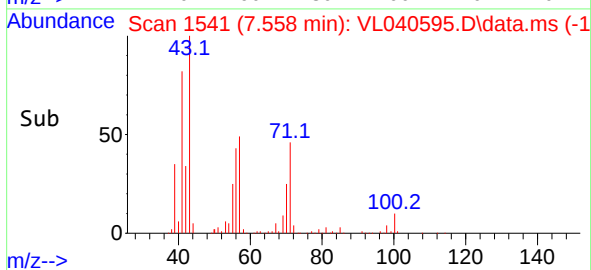
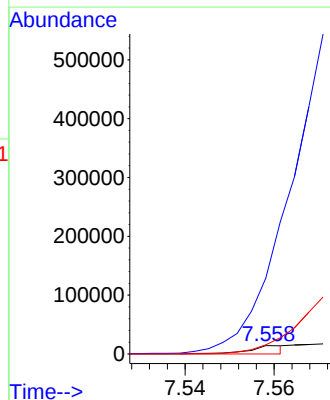
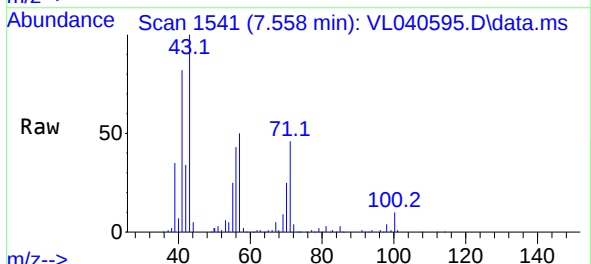
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

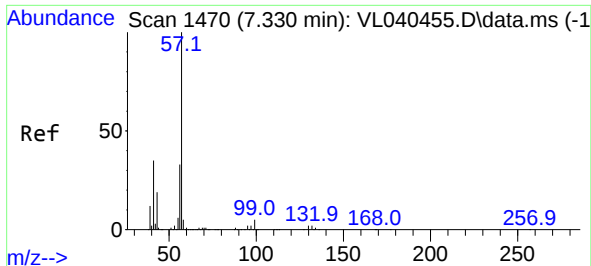
Tgt Ion: 42 Resp: 3322
Ion Ratio Lower Upper
42 100
72 0.0 33.8 50.8#
71 0.0 33.0 49.6#



#43
Methyl Methacrylate
Concen: 0.093 ppbv
RT: 7.558 min Scan# 1541
Delta R.T. 0.074 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 69 Resp: 7857
Ion Ratio Lower Upper
69 100
41 0.0 111.7 167.5#
100 0.0 26.9 40.3#

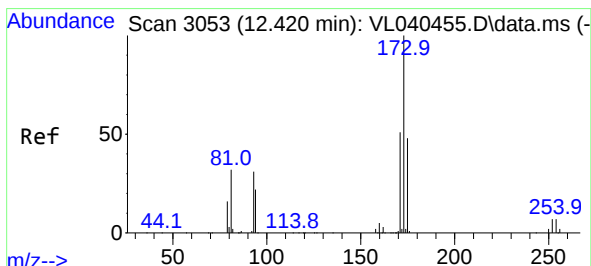
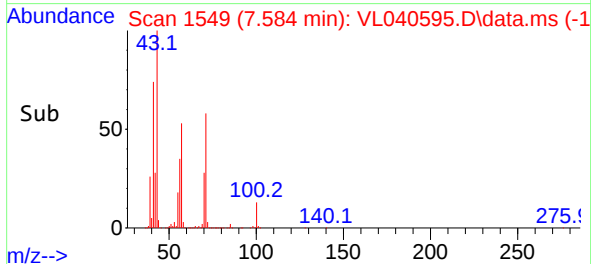
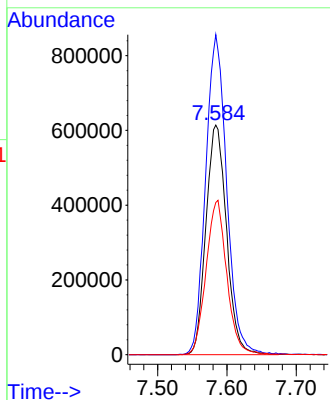
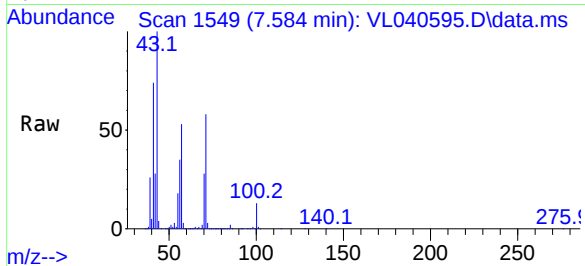




#44
2,2,4-Trimethylpentane
Concen: 3.490 ppbv
RT: 7.584 min Scan# 11
Delta R.T. 0.247 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

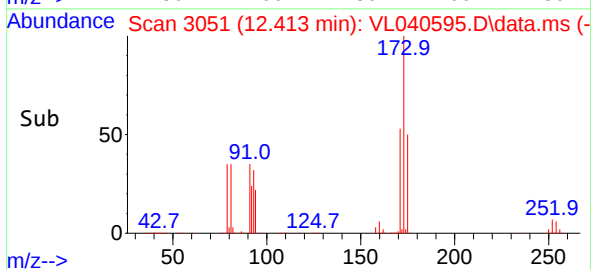
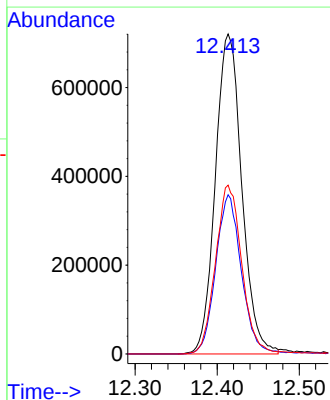
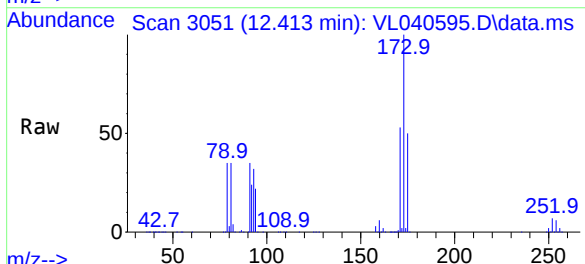
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

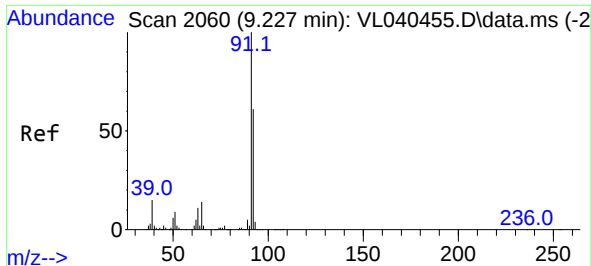
Tgt Ion: 57 Resp: 1267609
Ion Ratio Lower Upper
57 100
41 142.5 25.5 38.3#
56 68.0 25.1 37.7#



#49
Bromoform
Concen: 13.757 ppbv
RT: 12.413 min Scan# 3051
Delta R.T. -0.010 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion:173 Resp: 1616984
Ion Ratio Lower Upper
173 100
175 48.7 39.5 59.3
171 52.8 42.2 63.4

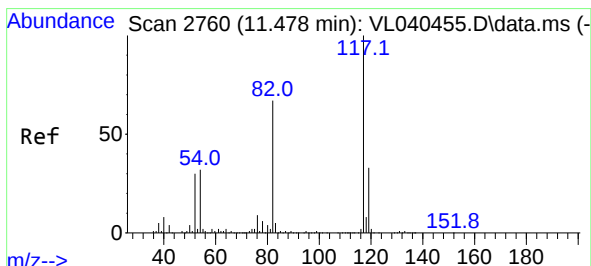
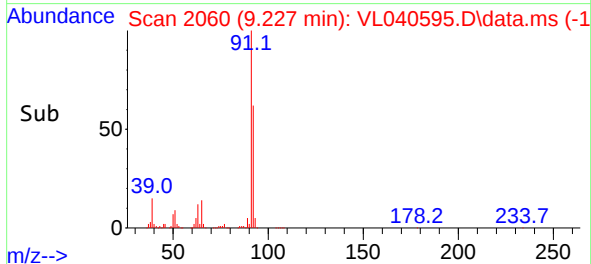
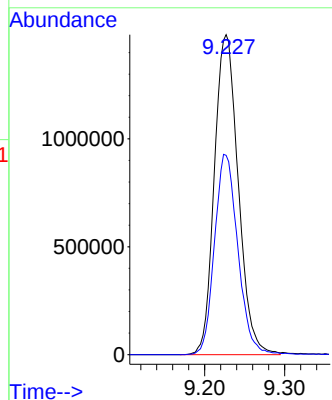
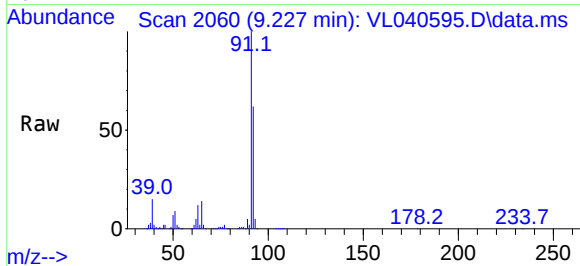




#53
Toluene
Concen: 12.529 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. -0.003 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

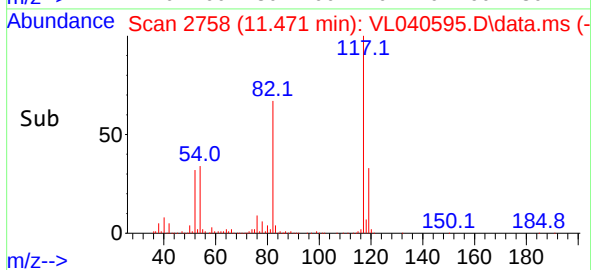
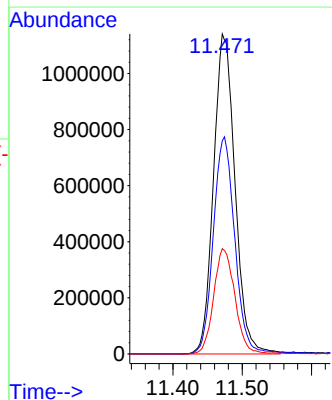
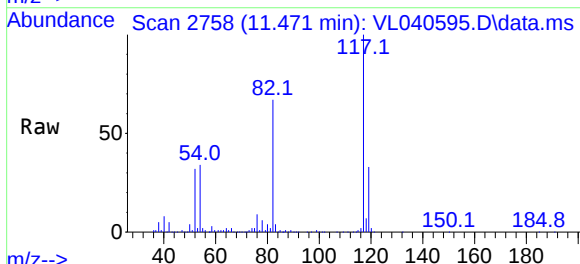
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

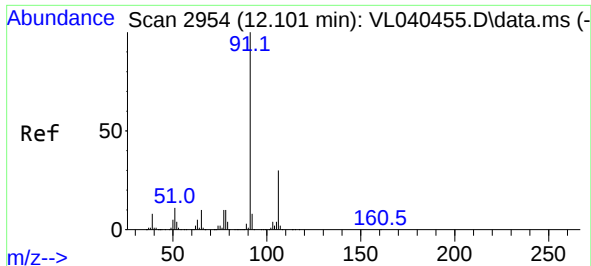
Tgt Ion: 91 Resp: 3072710
Ion Ratio Lower Upper
91 100
92 61.6 49.1 73.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.007 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 117 Resp: 2460782
Ion Ratio Lower Upper
117 100
82 68.1 50.2 75.4
119 32.8 26.9 40.3

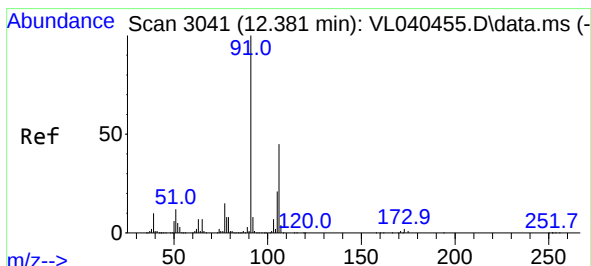
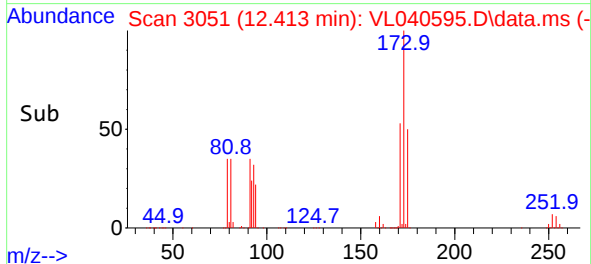
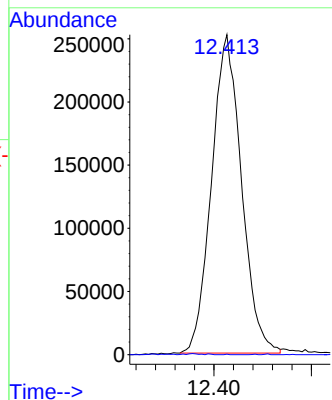
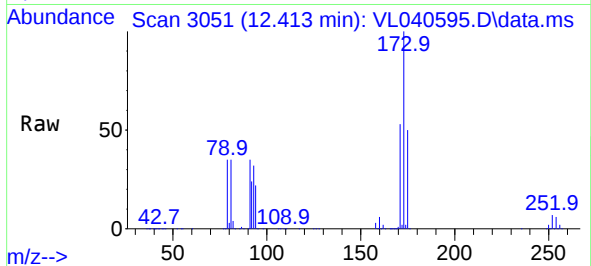




#58
Ethyl Benzene
Concen: 1.741 ppbv
RT: 12.413 min Scan# 3051
Delta R.T. 0.312 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

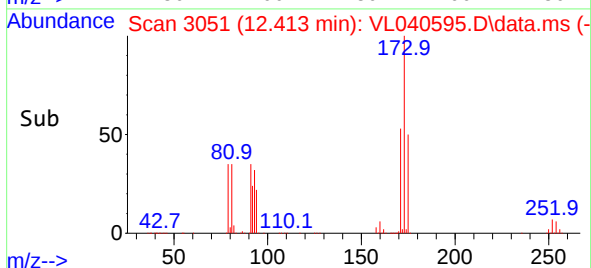
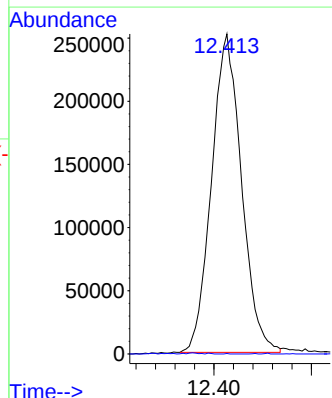
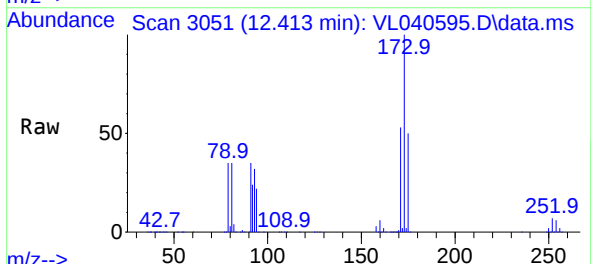
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

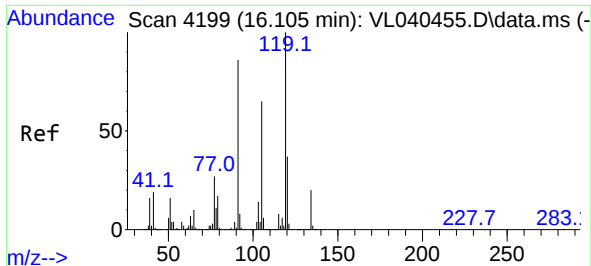
Tgt Ion: 91 Resp: 537681
Ion Ratio Lower Upper
91 100
106 0.2 25.4 38.0#



#59
m/p-Xylene
Concen: 1.951 ppbv
RT: 12.413 min Scan# 3051
Delta R.T. 0.029 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 91 Resp: 537681
Ion Ratio Lower Upper
91 100
106 0.3 35.9 53.9#

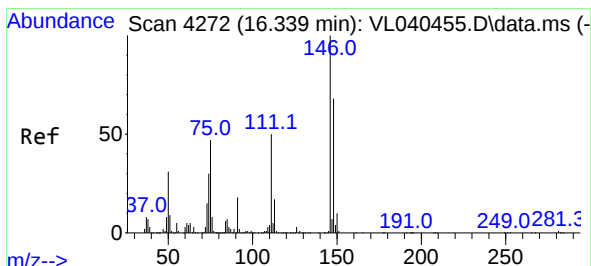
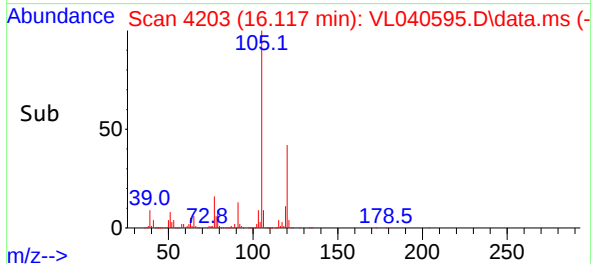
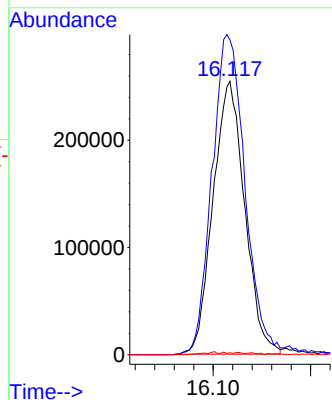
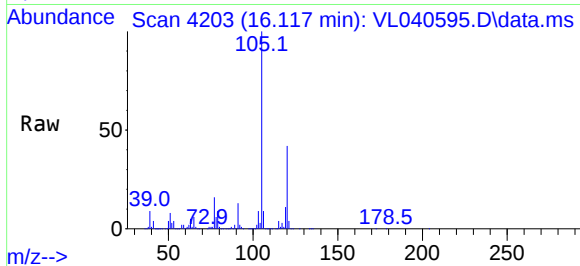




#65
tert-Butylbenzene
Concen: 1.649 ppbv
RT: 16.117 min Scan# 4199
Delta R.T. 0.016 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

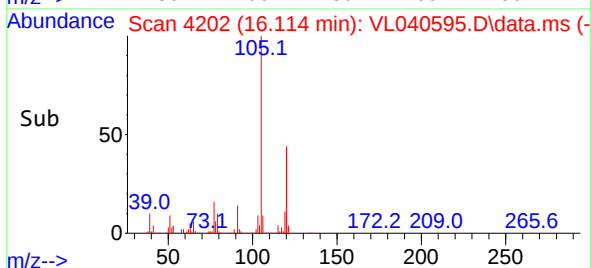
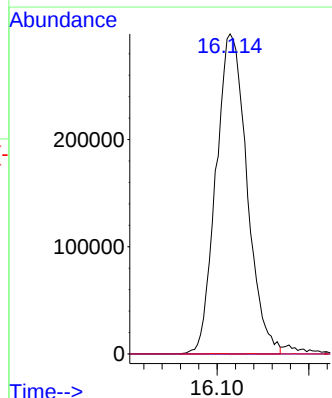
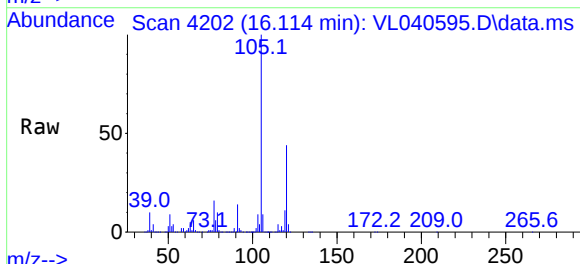
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

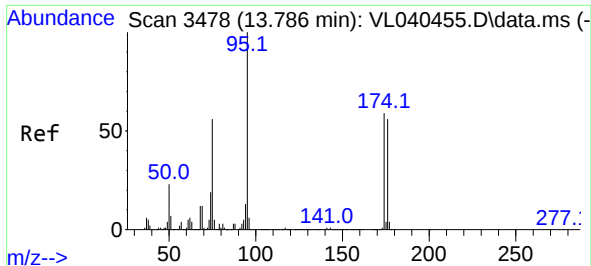
Tgt Ion:119 Resp: 574427
Ion Ratio Lower Upper
119 100
91 124.6 66.1 99.1#
134 1.2 15.7 23.5#



#66
Benzyl Chloride
Concen: 28.418 ppbv
RT: 16.114 min Scan# 4202
Delta R.T. -0.222 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 91 Resp: 700412
Ion Ratio Lower Upper
91 100
126 0.0 15.4 23.2#
128 0.0 4.5 6.7#

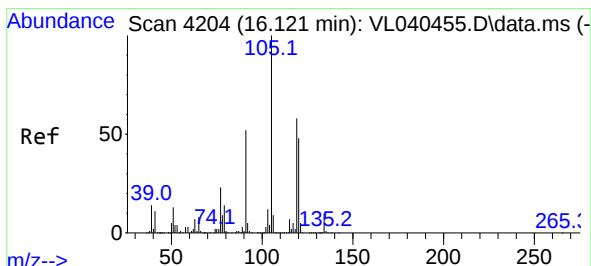
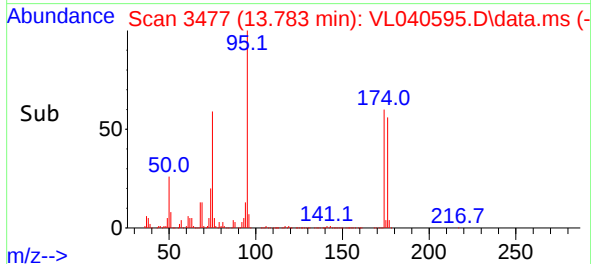
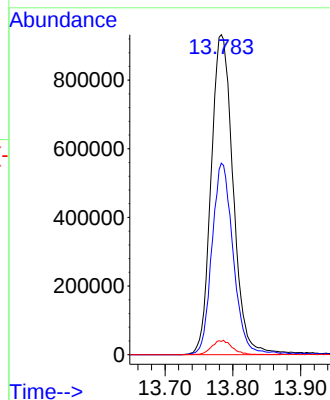
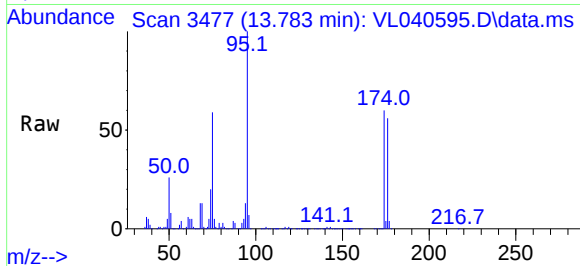




#68
1-Bromo-4-Fluorobenzene
Concen: 10.786 ppbv
RT: 13.783 min Scan# 3478
Delta R.T. -0.000 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

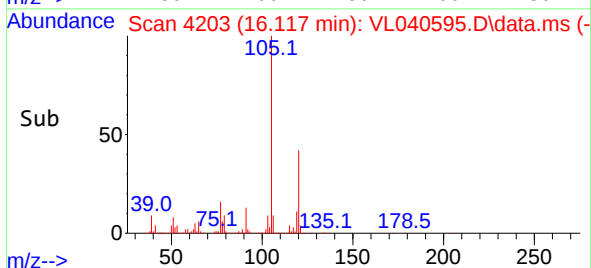
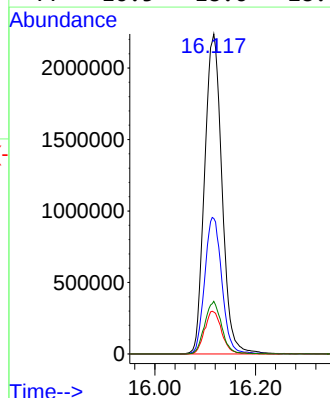
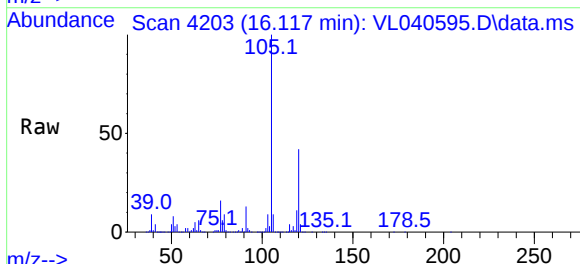
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

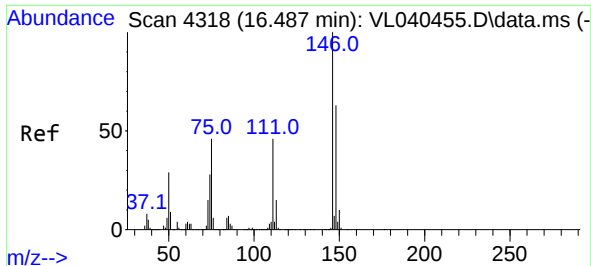
Tgt Ion: 95 Resp: 2100723
Ion Ratio Lower Upper
95 100
174 59.0 50.6 75.8
175 4.3 3.7 5.5



#74
1,2,4-Trimethylbenzene
Concen: 16.954 ppbv
RT: 16.117 min Scan# 4203
Delta R.T. -0.000 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion: 105 Resp: 5362903
Ion Ratio Lower Upper
105 100
120 42.4 40.3 60.5
91 13.1 46.8 70.2#
77 16.5 18.6 28.0#

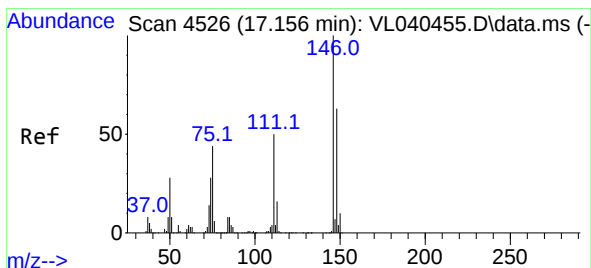
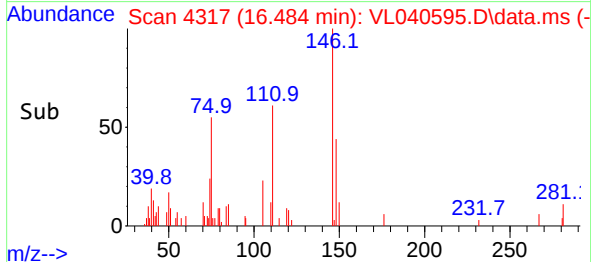
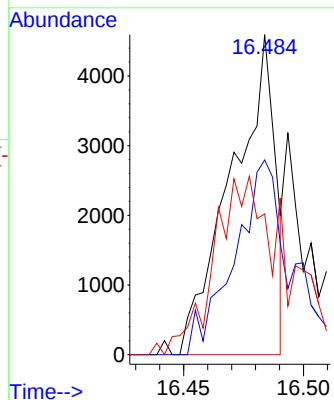
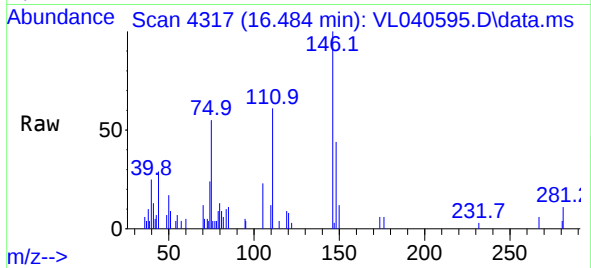




#76
1,4-Dichlorobenzene
Concen: 0.031 ppbv
RT: 16.484 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

Tgt Ion:146 Resp: 5814
Ion Ratio Lower Upper
146 100
111 81.9 22.8 68.3#
148 93.3 32.6 97.8



#77
1,2-Dichlorobenzene
Concen: 12.058 ppbv
RT: 17.149 min Scan# 4524
Delta R.T. -0.003 min
Lab File: VL040595.D
Acq: 7 Aug 2023 12:34

Tgt Ion:146 Resp: 2211169
Ion Ratio Lower Upper
146 100
111 51.2 24.3 72.8
148 64.2 32.1 96.3

