

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
 Data File : VL040557.D
 Acq On : 27 Jul 2023 2:06
 Operator : SY/MD
 Sample : 03572-14 0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 04:46:12 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 : Thu Jul 27 04:45:44 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1002250	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.642	114	2621212	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.455	117	2288525	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1882664	10.394	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.900%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	119400	0.596	ppbv	97
3) Chlorodifluoromethane	2.658	51	93454	0.588	ppbv	99
4) Chloromethane	2.796	50	36815	0.585	ppbv	94
5) Vinyl Chloride	2.903	62	33977	0.514	ppbv #	85
6) Bromomethane	3.105	94	15830	0.568	ppbv	98
7) Chloroethane	3.186	64	6924	0.299	ppbv	94
8) Dichlorotetrafluoroethane	2.838	85	97837	0.593	ppbv	99
9) Propene	2.677	41	28308	0.521	ppbv	97
10) Heptane	7.568	43	47895	0.399	ppbv	95
11) Trichlorofluoromethane	3.542	101	101374	0.627	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.047	101	72245	0.634	ppbv	93
13) Ethanol	3.240	45	2079	0.176	ppbv #	37
14) Bromoethene	3.346	108	28174	0.575	ppbv #	95
15) Acetone	3.465	43	80423	0.697	ppbv	93
16) 1,3-Butadiene	2.967	39	27659	0.475	ppbv	84
17) tert-Butyl alcohol	3.877	59	70941	0.595	ppbv	99
18) 1,1-Dichloroethene	3.861	96	29334	0.560	ppbv	90
19) Isopropyl Alcohol	3.575	45	41169	0.622	ppbv #	94
20) Methylene Chloride	3.915	84	29295	0.597	ppbv	94
21) Allyl Chloride	3.983	41	34789	0.528	ppbv	85
22) trans-1,2-Dichloroethene	4.433	96	15972	0.309	ppbv	87
23) Vinyl Acetate	4.613	43	54500	0.496	ppbv #	91
24) 1,1-Dichloroethane	4.546	63	68035	0.610	ppbv	98
25) Ethyl Acetate	5.198	43	110167	0.502	ppbv #	95
26) Hexane	5.195	57	26504	0.260	ppbv #	1
27) Carbon Disulfide	4.108	76	60187	0.501	ppbv #	88
28) Methyl tert-Butyl Ether	4.584	73	46205	0.562	ppbv	99
29) Chloroform	5.263	83	94810	0.560	ppbv	89
30) Cyclohexane	6.587	84	29444	0.347	ppbv #	83
31) cis-1,2-Dichloroethene	5.060	61	47222	0.468	ppbv #	87
32) 1,1,1-Trichloroethane	5.989	97	95340	0.576	ppbv	98
34) 2-Butanone	4.780	43	27398	0.212	ppbv #	51
35) Carbon Tetrachloride	6.478	117	84477	0.536	ppbv	99
36) Benzene	6.356	78	103587	0.491	ppbv	99
37) 1,2-Dichloroethane	5.790	62	67401	0.543	ppbv	100
38) Trichloroethene	7.282	130	22011	0.276	ppbv	93
39) 1,2-Dichloropropane	7.063	63	20213	0.249	ppbv	89
41) Tetrahydrofuran	5.568	42	30298	0.401	ppbv	95
42) Bromodichloromethane	7.237	83	86545	0.502	ppbv	99
43) Methyl Methacrylate	7.471	69	28816	0.365	ppbv	90
44) 2,2,4-Trimethylpentane	7.314	57	149835	0.442	ppbv #	89
45) t-1,3-Dichloropropene	8.690	75	4982	0.098	ppbv	99
46) cis-1,3-Dichloropropene	8.131	75	14406	0.222	ppbv #	88

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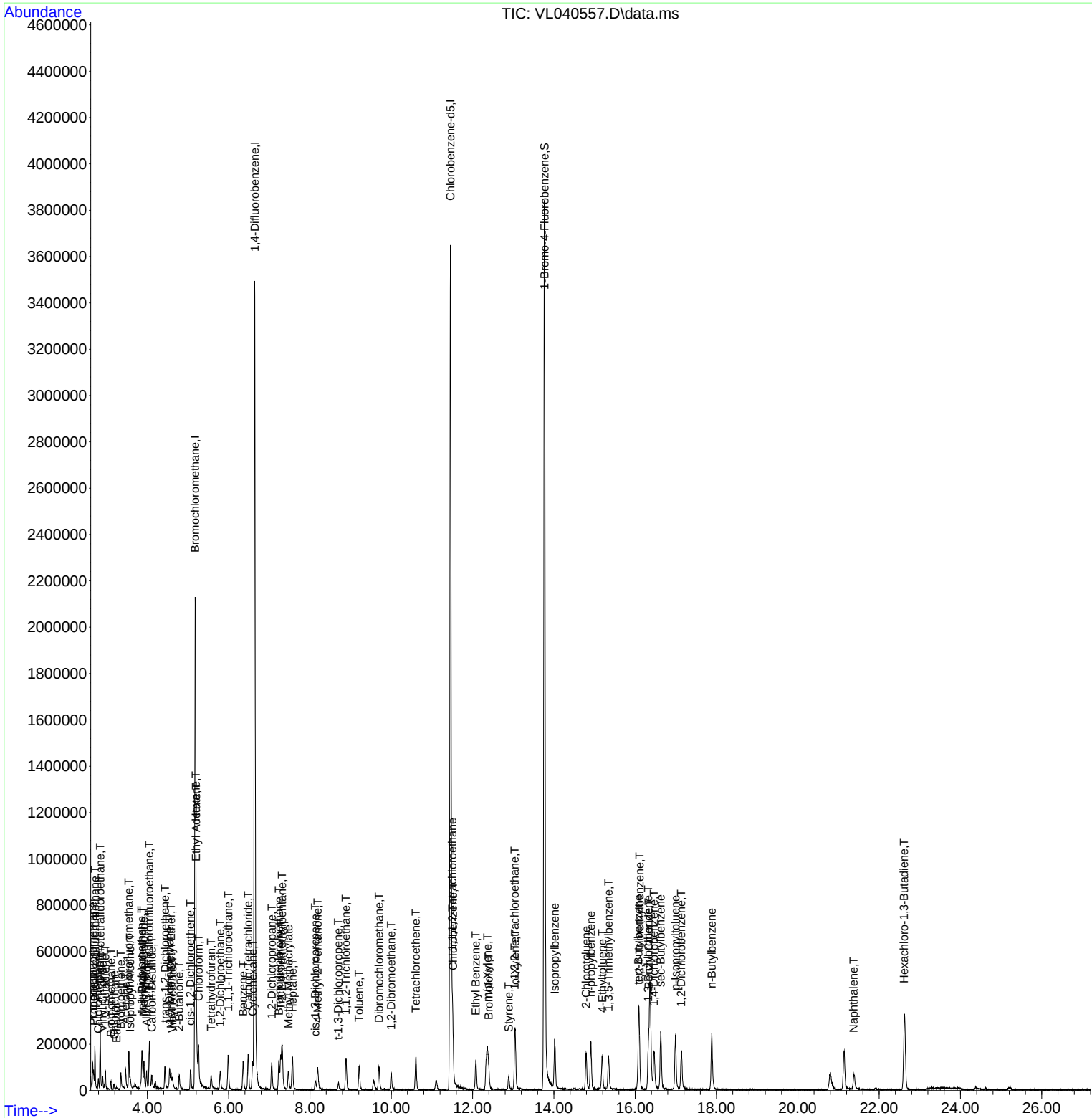
Quant Time: Jul 27 04:46:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 27 04:45:44 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1,2-Trichloroethane	8.883	97	25247	0.282	ppbv	95
48) Dibromochloromethane	9.700	129	59275	0.428	ppbv	98
49) Bromoform	12.394	173	27137	0.247	ppbv #	48
50) 4-Methyl-2-Pentanone	8.189	43	73519	0.391	ppbv	95
52) Tetrachloroethene	10.603	164	27922	0.409	ppbv #	80
53) Toluene	9.205	91	48966	0.214	ppbv #	42
54) 1,2-Dibromoethane	9.999	107	51261	0.460	ppbv	95
56) 1,1,1,2-Tetrachloroethane	11.504	131	24256	0.237	ppbv #	1
57) Chlorobenzene	11.516	112	95047	0.533	ppbv	93
58) Ethyl Benzene	12.079	91	100799	0.351	ppbv	95
59) m/p-Xylene	12.365	91	84386	0.329	ppbv #	1
60) o-Xylene	13.050	91	104954	0.430	ppbv	96
61) Styrene	12.889	104	29624	0.263	ppbv #	86
62) Isopropylbenzene	14.021	105	166778	0.456	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.037	83	92908	0.543	ppbv	95
64) n-propylbenzene	14.912	120	21546	0.228	ppbv #	1
65) tert-Butylbenzene	16.076	119	53491	0.165	ppbv #	17
66) Benzyl Chloride	16.333	91	1644	0.072	ppbv #	1
67) sec-Butylbenzene	16.629	105	223254	0.469	ppbv	97
69) p-Isopropyltoluene	16.992	119	162880	0.414	ppbv	94
70) n-Butylbenzene	17.883	91	184057	0.420	ppbv	97
71) 2-Chlorotoluene	14.793	91	115210	0.408	ppbv	99
72) 4-Ethyltoluene	15.188	105	112392	0.393	ppbv #	94
73) 1,3,5-Trimethylbenzene	15.346	105	57379	0.227	ppbv	96
74) 1,2,4-Trimethylbenzene	16.105	105	59226	0.201	ppbv	91
75) 1,3-Dichlorobenzene	16.320	146	81778	0.459	ppbv	87
76) 1,4-Dichlorobenzene	16.465	146	43366	0.248	ppbv #	14
77) 1,2-Dichlorobenzene	17.134	146	42582	0.250	ppbv #	23
78) Hexachloro-1,3-Butadiene	22.612	225	25128	0.157	ppbv #	19
79) Naphthalene	21.371	128	23797	0.096	ppbv	97

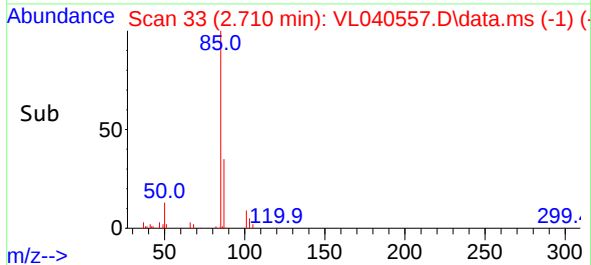
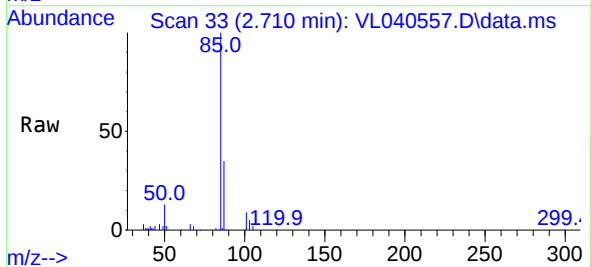
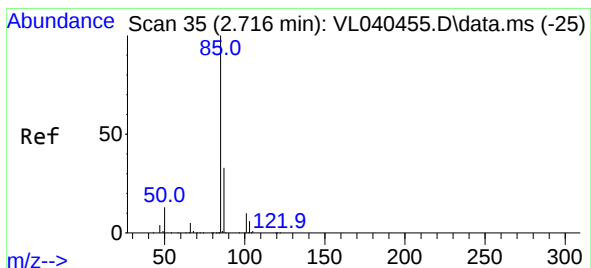
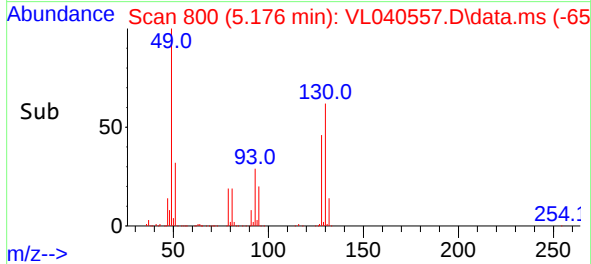
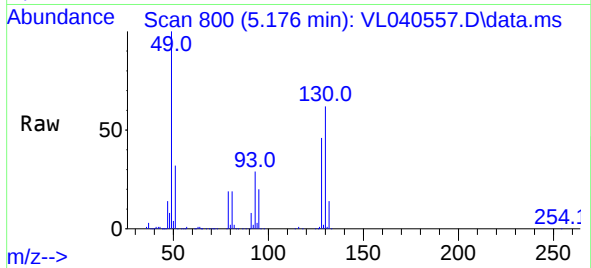
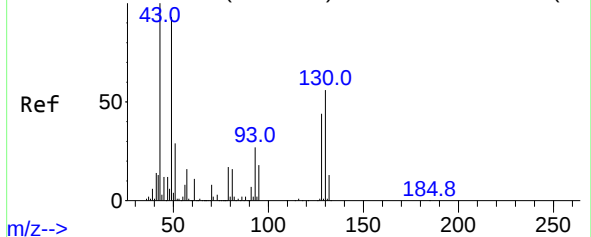
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_L
ClientSampleId :

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Abundance Scan 804 (5.189 min): VL040455.D\data.ms (-78



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.176 min Scan# 80

Delta R.T. -0.026 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

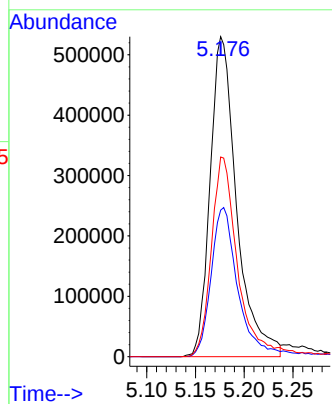
Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 49 Resp: 1002250

Ion	Ratio	Lower	Upper
49	100		
128	49.0	25.1	75.4
130	64.5	31.6	94.7



#2

Dichlorodifluoromethane

Concen: 0.596 ppbv

RT: 2.710 min Scan# 33

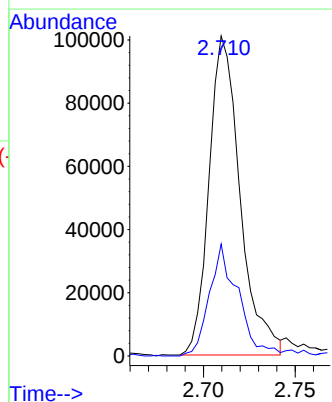
Delta R.T. -0.029 min

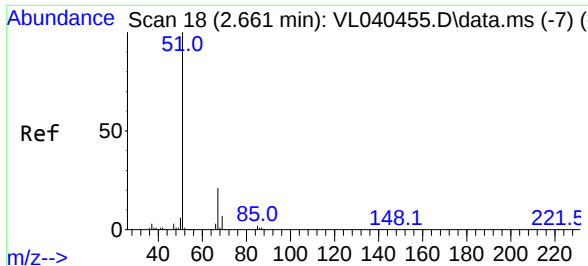
Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Tgt Ion: 85 Resp: 119400

Ion	Ratio	Lower	Upper
85	100		
87	35.1	26.8	40.2

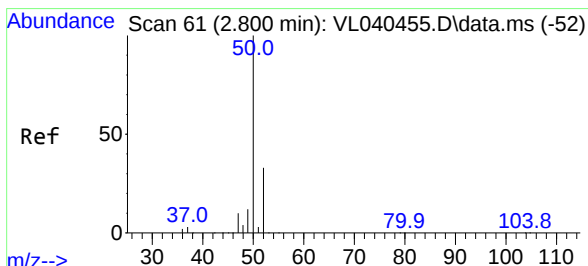
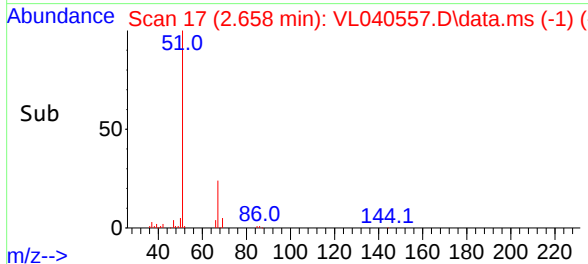
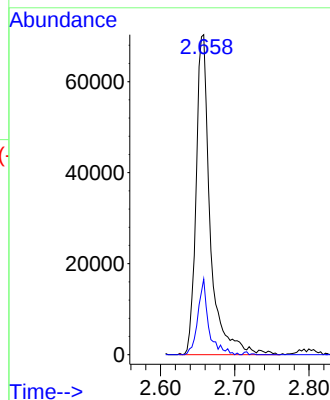
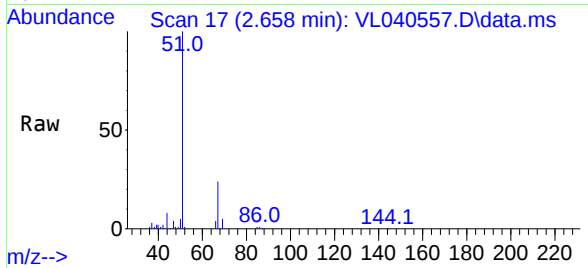




#3
Chlorodifluoromethane
Concen: 0.588 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

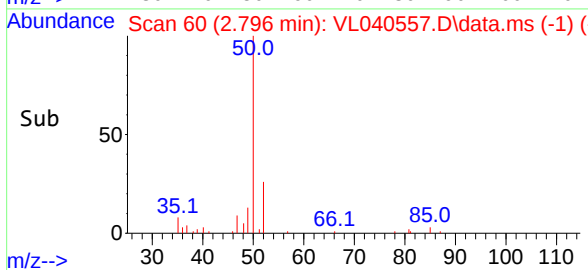
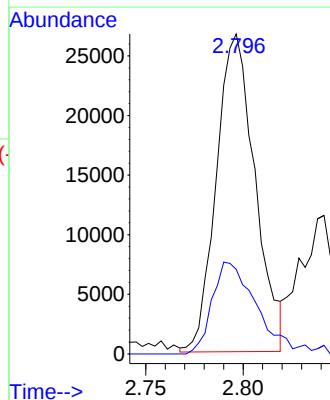
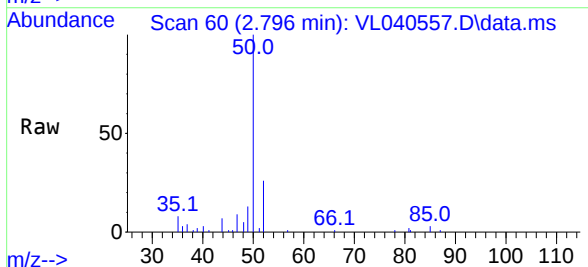
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 93454
Ion Ratio Lower Upper
51 100
67 18.5 14.6 21.8

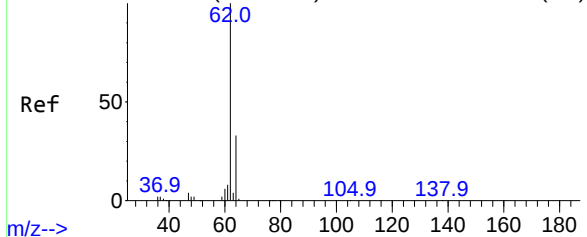


#4
Chloromethane
Concen: 0.585 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 50 Resp: 36815
Ion Ratio Lower Upper
50 100
52 27.0 24.4 36.6



Abundance Scan 94 (2.906 min): VL040455.D\data.ms (-85)

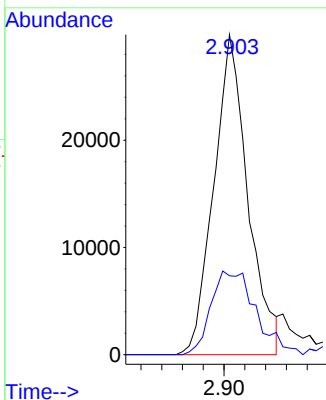
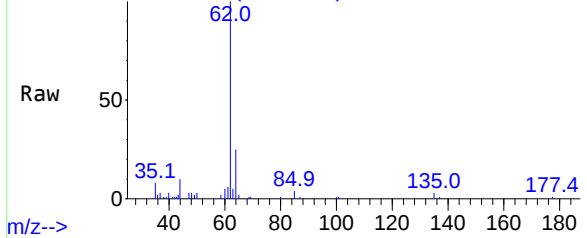


#5
Vinyl Chloride
Concen: 0.514 ppbv
RT: 2.903 min Scan# 91
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

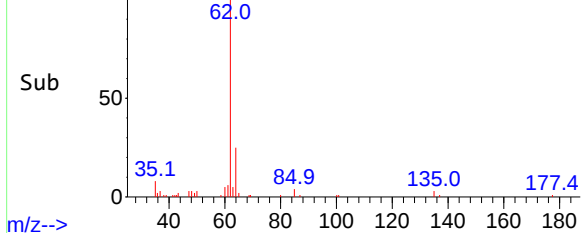
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 62 Resp: 33977
Ion Ratio Lower Upper
62 100
64 24.6 26.4 39.6#

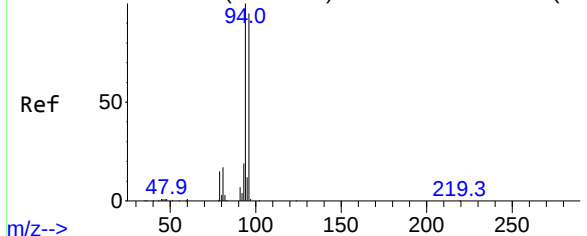
Abundance Scan 93 (2.903 min): VL040557.D\data.ms



Abundance Scan 93 (2.903 min): VL040557.D\data.ms (-1)



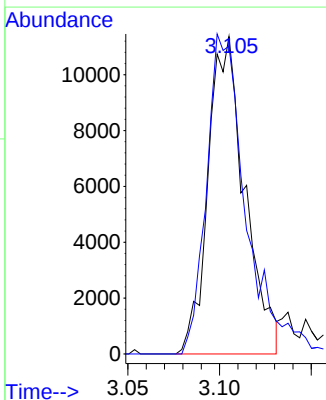
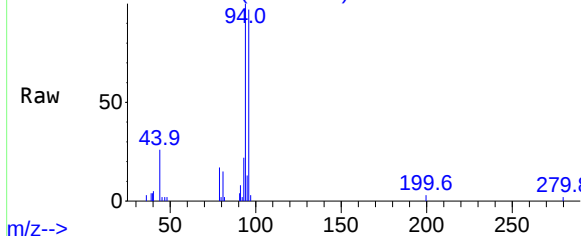
Abundance Scan 157 (3.108 min): VL040455.D\data.ms (-14)



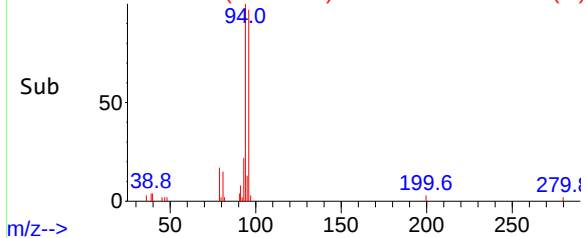
#6
Bromomethane
Concen: 0.568 ppbv
RT: 3.105 min Scan# 156
Delta R.T. -0.023 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

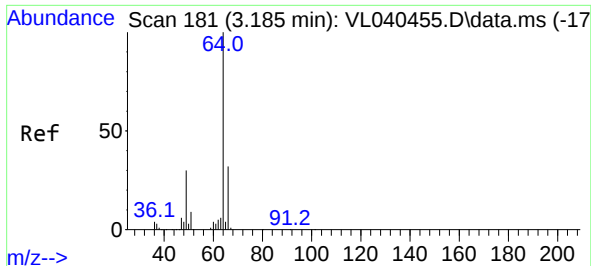
Tgt Ion: 94 Resp: 15830
Ion Ratio Lower Upper
94 100
96 97.0 75.7 113.5

Abundance Scan 156 (3.105 min): VL040557.D\data.ms



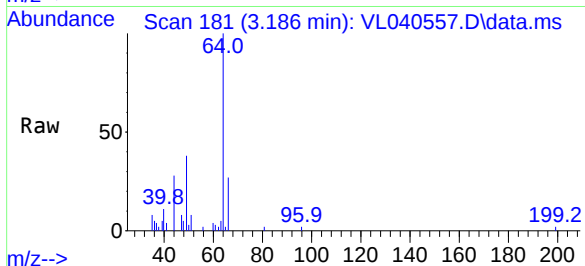
Abundance Scan 156 (3.105 min): VL040557.D\data.ms (-7)



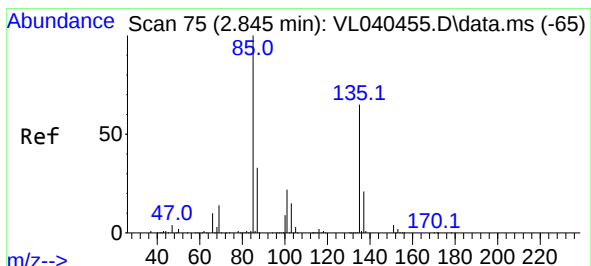
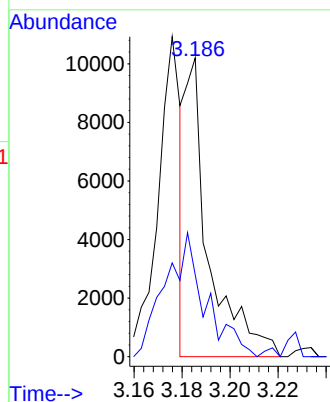
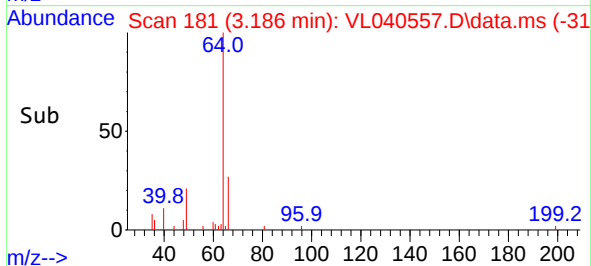


#7
Chloroethane
Concen: 0.299 ppbv
RT: 3.186 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Instrument :
MSVOA_L
ClientSampleId :

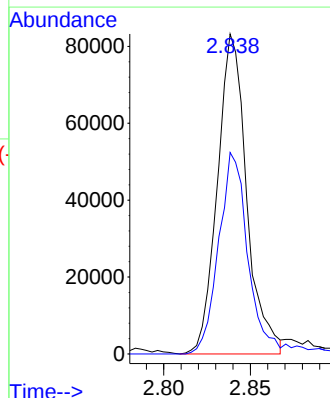
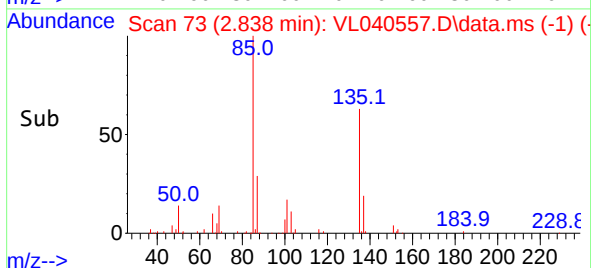
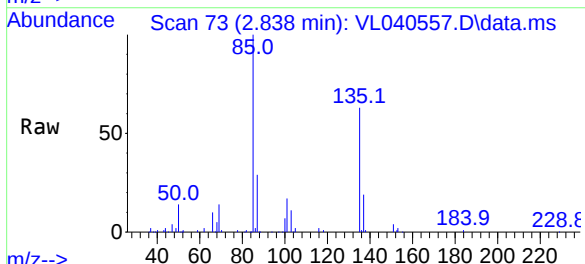


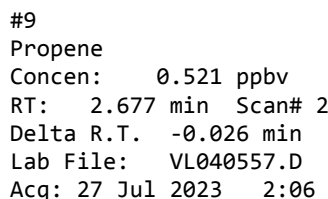
Tgt Ion: 64 Resp: 6924
Ion Ratio Lower Upper
64 100
66 27.4 24.4 36.6



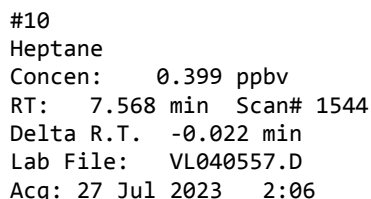
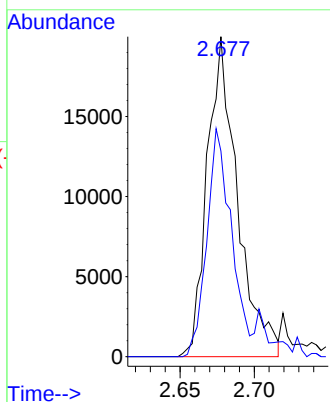
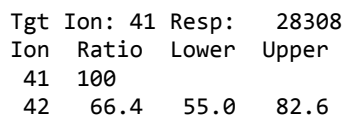
#8
Dichlorotetrafluoroethane
Concen: 0.593 ppbv
RT: 2.838 min Scan# 73
Delta R.T. -0.029 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 85 Resp: 97837
Ion Ratio Lower Upper
85 100
135 66.5 52.4 78.6

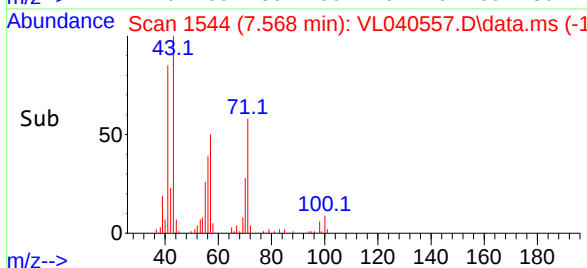
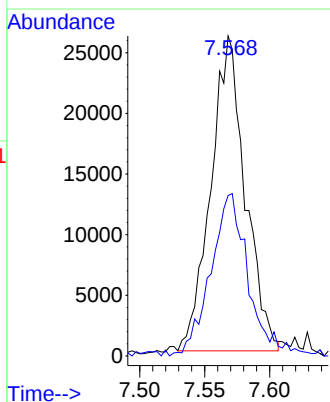


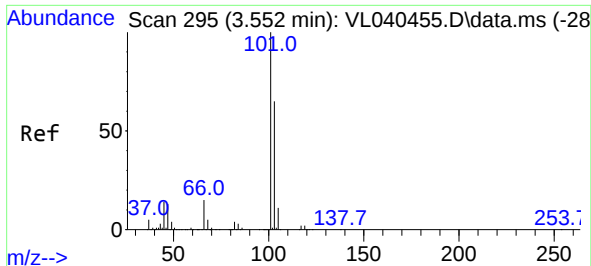


Instrument :
MSVOA_L
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Tgt	Ion: 43	Resp:	47895
Ion	Ratio	Lower	Upper
43	100		
57	56.6	42.5	63.7

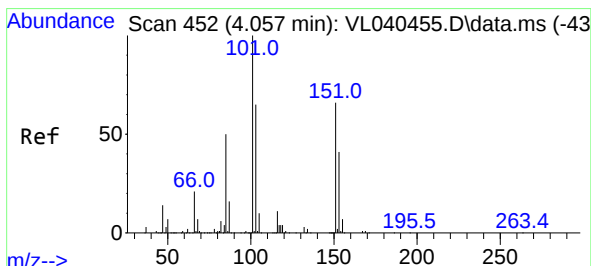
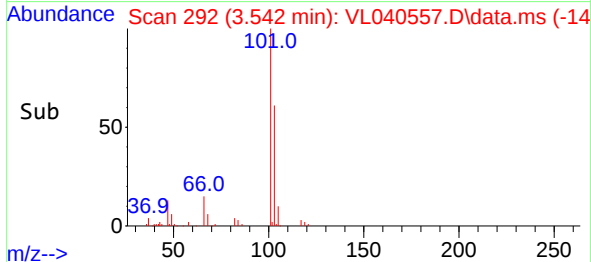
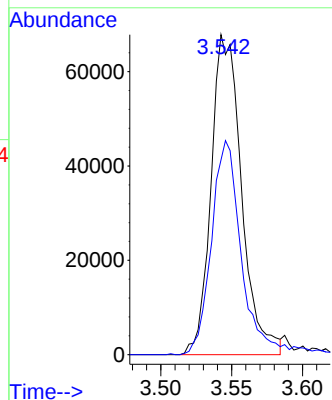
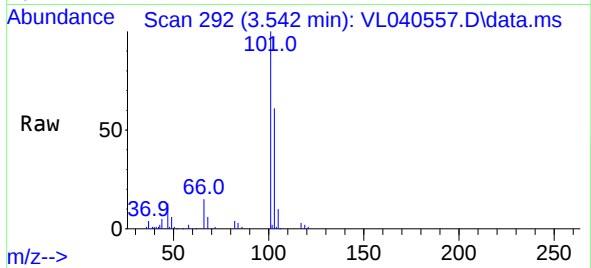




#11
 Trichlorofluoromethane
 Concen: 0.627 ppbv
 RT: 3.542 min Scan# 295
 Delta R.T. -0.029 min
 Lab File: VL040557.D
 Acq: 27 Jul 2023 2:06

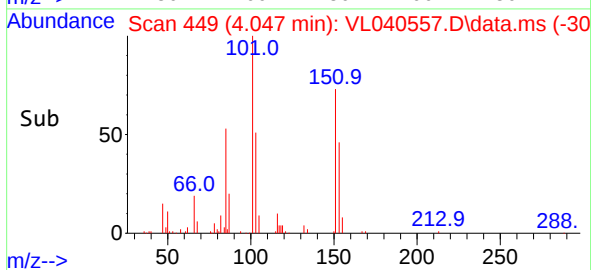
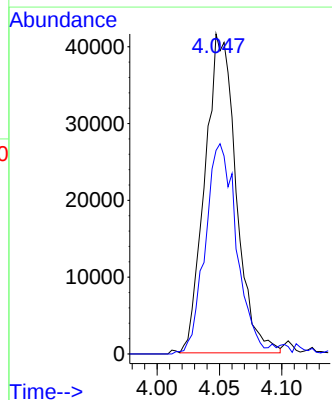
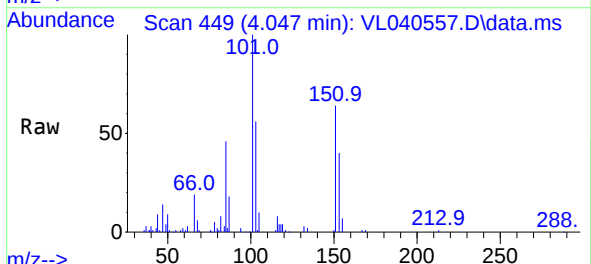
Instrument :
 MSVOA_L
 ClientSampleId :

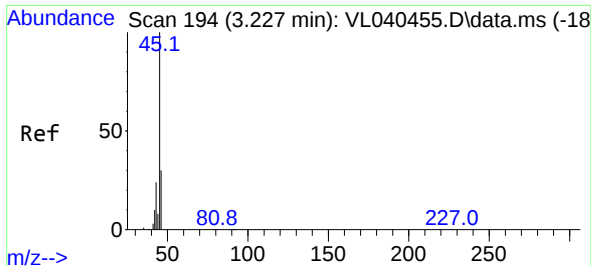
Tgt Ion:101 Resp: 101374
 Ion Ratio Lower Upper
 101 100
 103 60.9 53.4 80.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.634 ppbv
 RT: 4.047 min Scan# 449
 Delta R.T. -0.026 min
 Lab File: VL040557.D
 Acq: 27 Jul 2023 2:06

Tgt Ion:101 Resp: 72245
 Ion Ratio Lower Upper
 101 100
 151 66.9 58.2 87.4

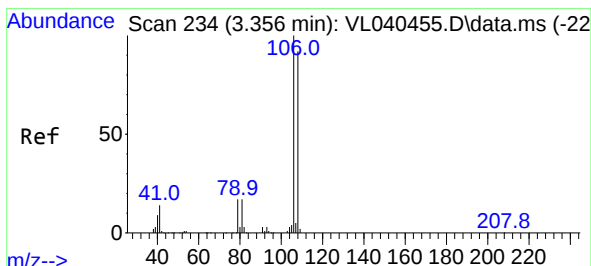
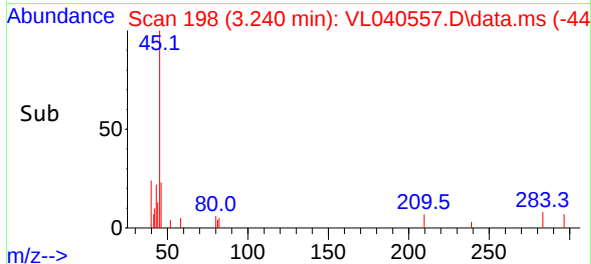
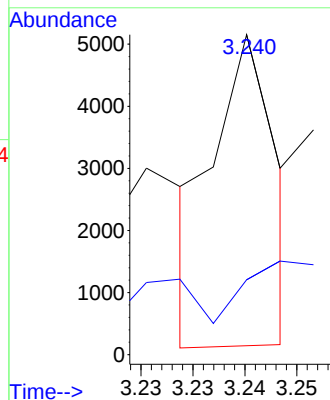
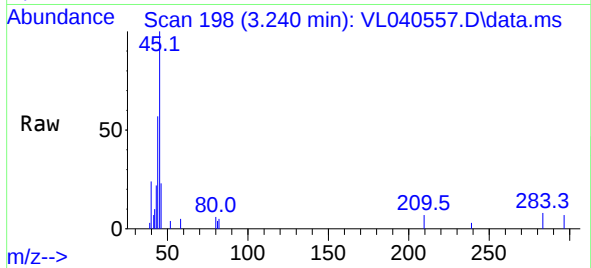




#13
Ethanol
Concen: 0.176 ppbv
RT: 3.240 min Scan# 194
Delta R.T. -0.006 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

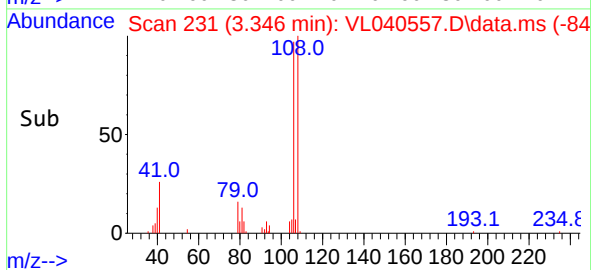
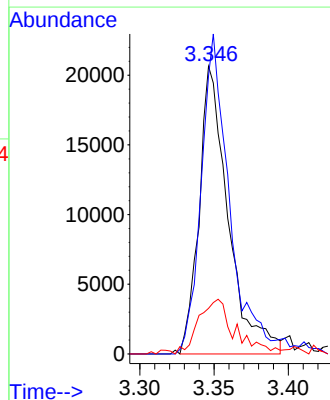
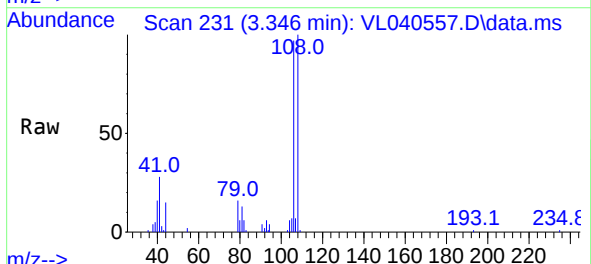
Instrument :
MSVOA_L
ClientSampleId :

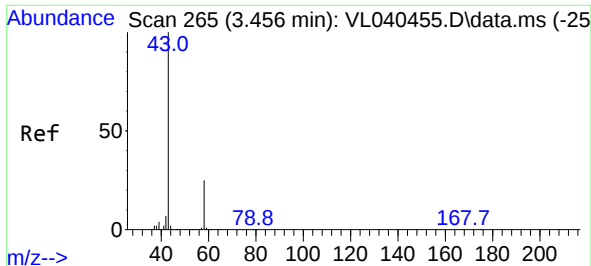
Tgt Ion: 45 Resp: 2079
Ion Ratio Lower Upper
45 100
46 0.0 15.3 61.1#



#14
Bromoethene
Concen: 0.575 ppbv
RT: 3.346 min Scan# 231
Delta R.T. -0.029 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion:108 Resp: 28174
Ion Ratio Lower Upper
108 100
106 112.5 87.2 130.8
79 26.9 15.3 22.9#

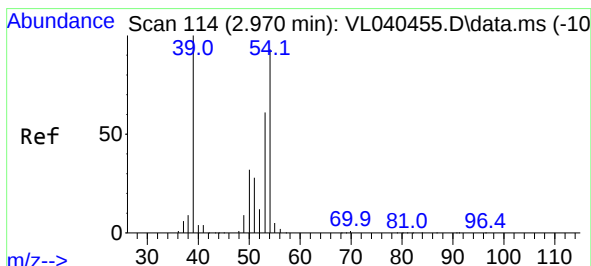
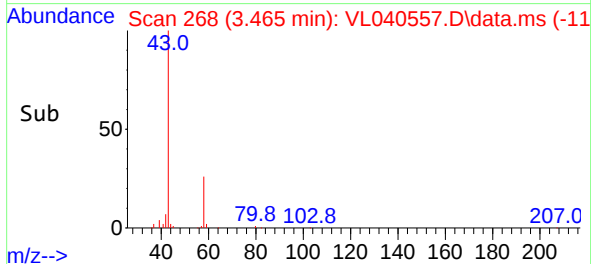
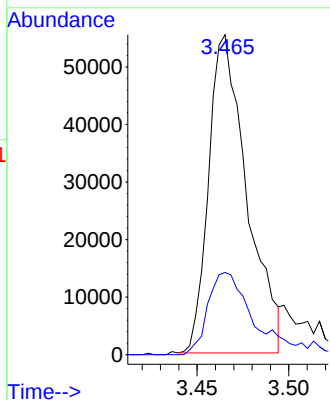
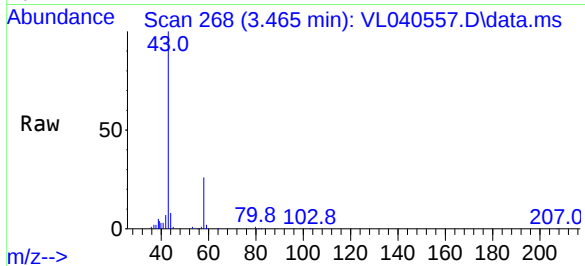




#15
Acetone
Concen: 0.697 ppbv
RT: 3.465 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

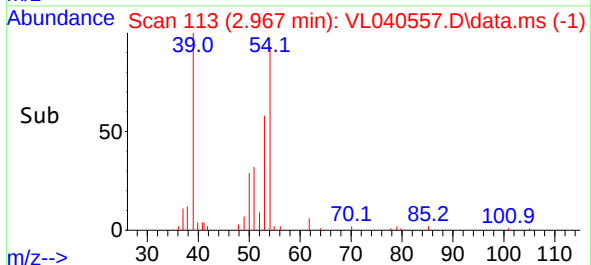
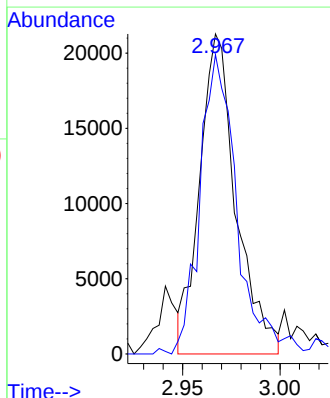
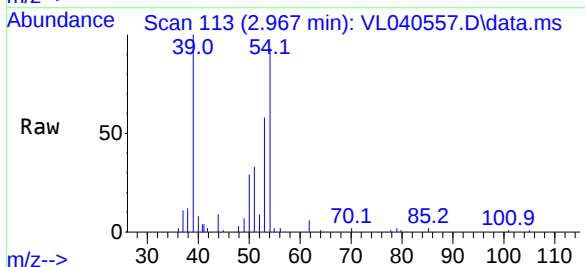
Instrument :
MSVOA_L
ClientSampleId :

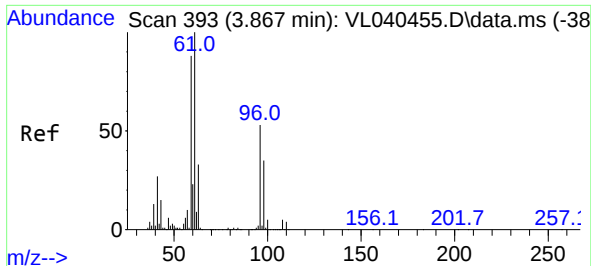
Tgt Ion: 43 Resp: 80423
Ion Ratio Lower Upper
43 100
58 32.1 22.9 34.3



#16
1,3-Butadiene
Concen: 0.475 ppbv
RT: 2.967 min Scan# 113
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 39 Resp: 27659
Ion Ratio Lower Upper
39 100
54 98.0 66.6 100.0

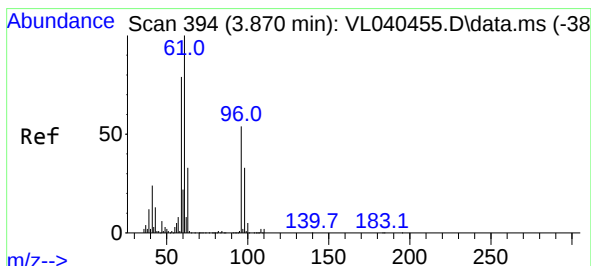
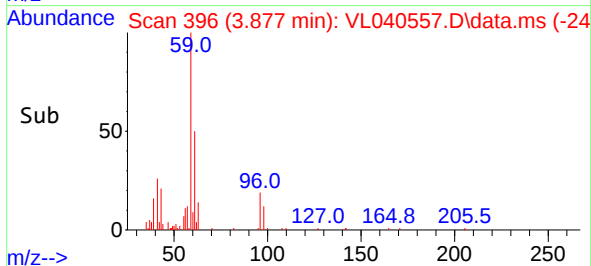
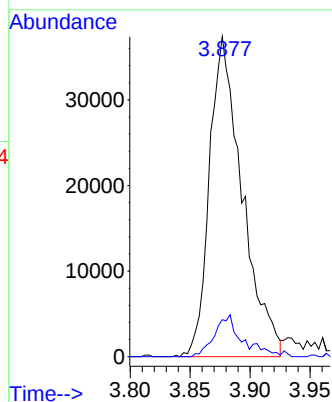
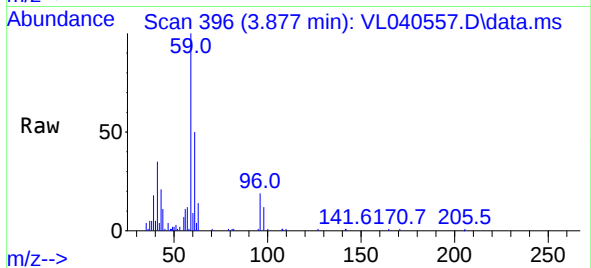




#17
tert-Butyl alcohol
Concen: 0.595 ppbv
RT: 3.877 min Scan# 396
Delta R.T. -0.006 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

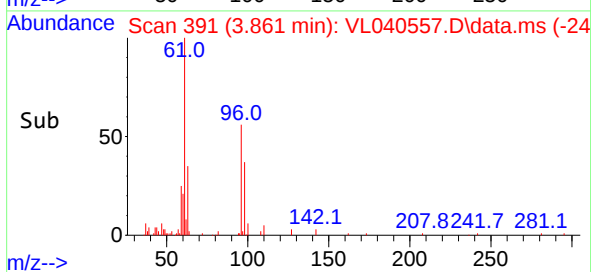
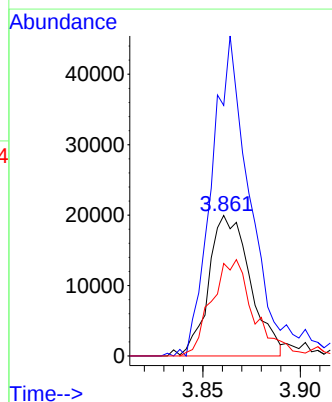
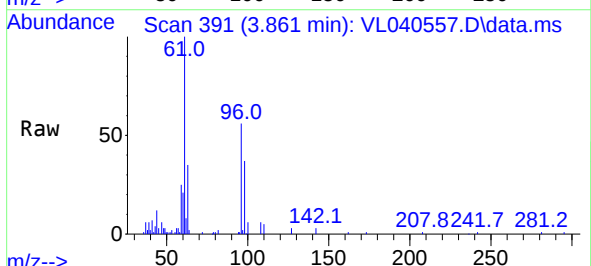
Instrument :
MSVOA_1
ClientSampleId :

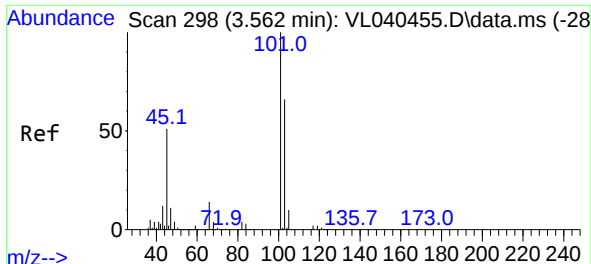
Tgt Ion: 59 Resp: 70941
Ion Ratio Lower Upper
59 100
57 11.3 8.7 13.1



#18
1,1-Dichloroethene
Concen: 0.560 ppbv
RT: 3.861 min Scan# 391
Delta R.T. -0.029 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 96 Resp: 29334
Ion Ratio Lower Upper
96 100
61 175.1 154.4 231.6
98 66.4 50.0 75.0





#19

Isopropyl Alcohol

Concen: 0.622 ppbv

RT: 3.575 min Scan# 302

Delta R.T. -0.006 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

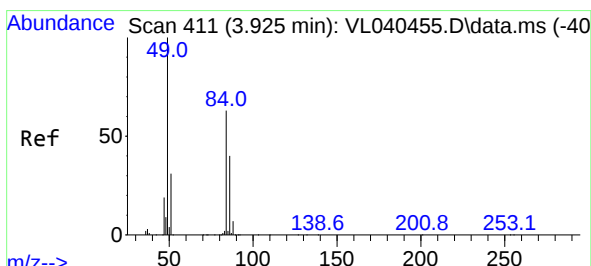
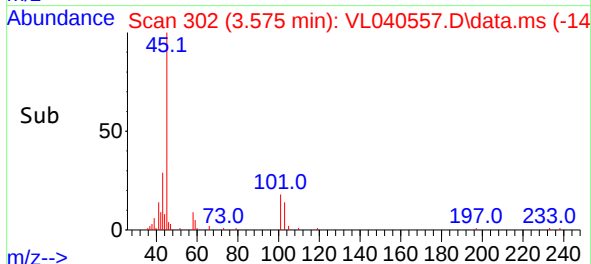
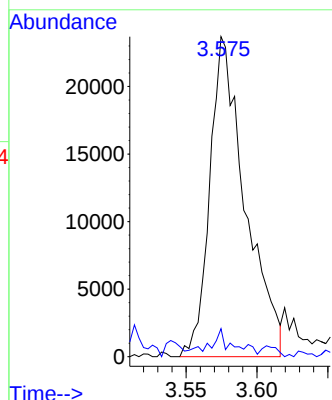
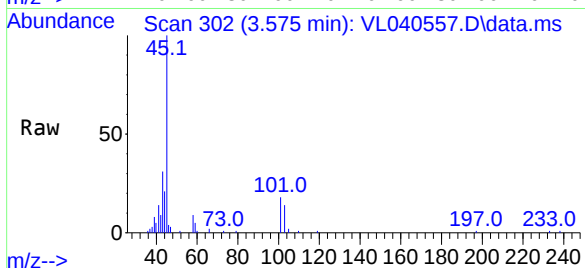
ClientSampleId :

Tgt Ion: 45 Resp: 41169

Ion Ratio Lower Upper

45 100

58 3.8 1.1 1.7#



#20

Methylene Chloride

Concen: 0.597 ppbv

RT: 3.915 min Scan# 408

Delta R.T. -0.026 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Tgt Ion: 84 Resp: 29295

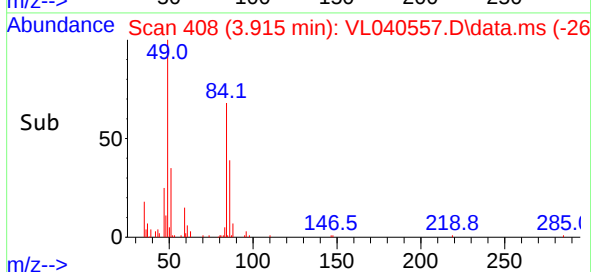
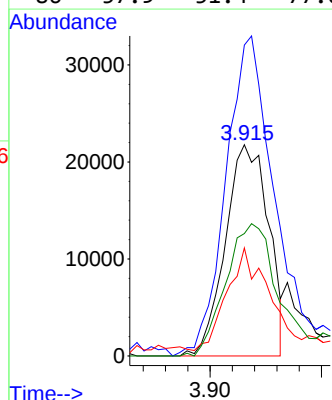
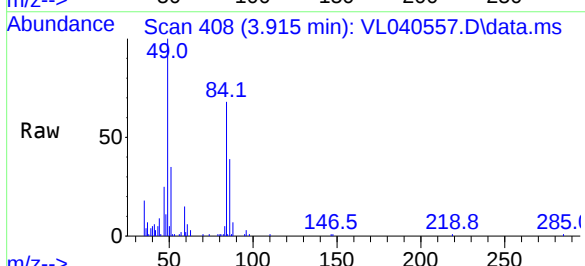
Ion Ratio Lower Upper

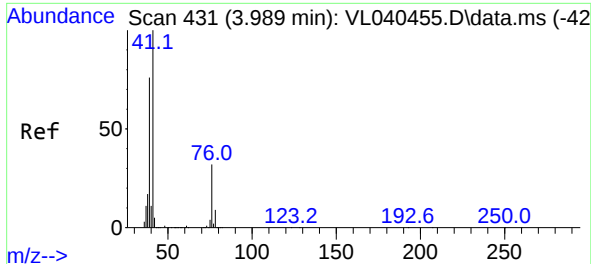
84 100

49 145.5 123.4 185.2

51 46.8 38.3 57.5

86 57.9 51.4 77.0





#21

Allyl Chloride

Concen: 0.528 ppbv

RT: 3.983 min Scan# 41

Delta R.T. -0.022 min

Lab File: VL040557.D

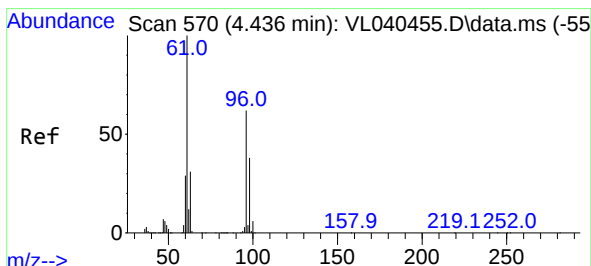
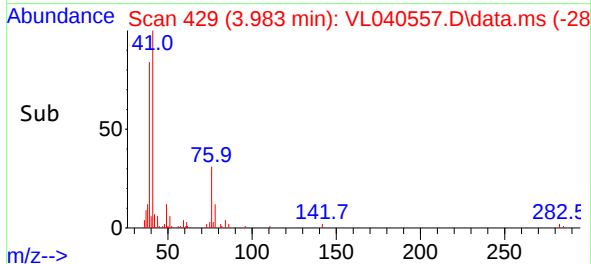
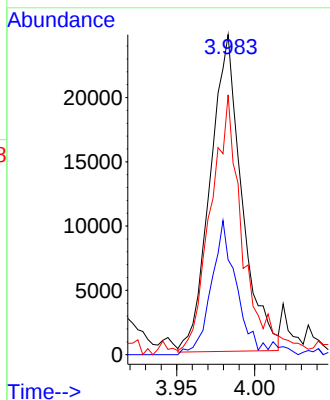
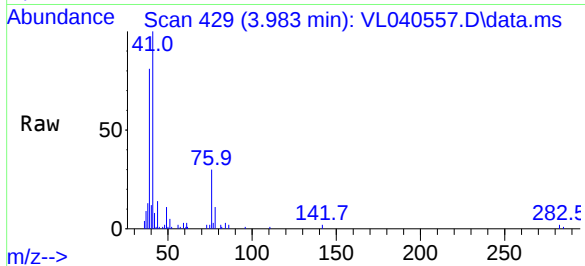
Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	41	Resp:	34789
Ion	Ratio	Lower	Upper
41	100		
76	35.8	24.8	37.2
39	90.7	60.6	91.0



#22

trans-1,2-Dichloroethene

Concen: 0.309 ppbv

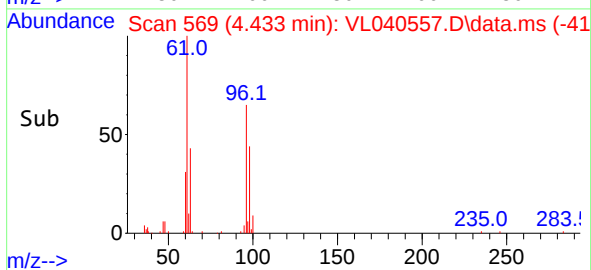
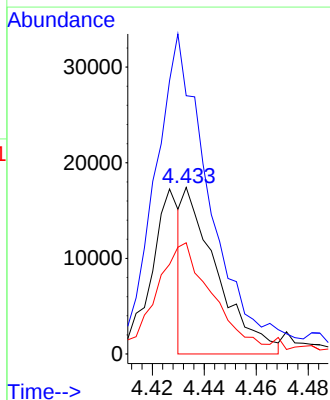
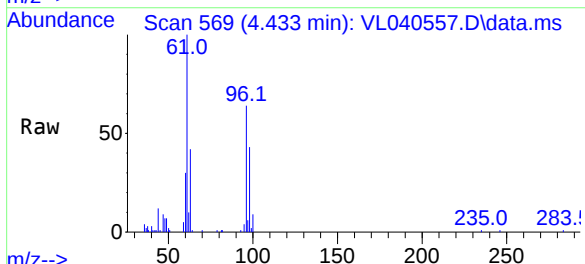
RT: 4.433 min Scan# 569

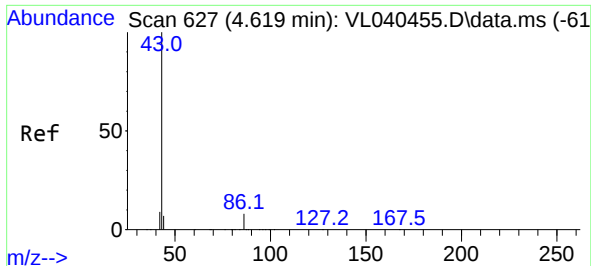
Delta R.T. -0.019 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Tgt Ion:	96	Resp:	15972
Ion	Ratio	Lower	Upper
96	100		
61	150.5	137.7	206.5
98	60.9	52.9	79.3

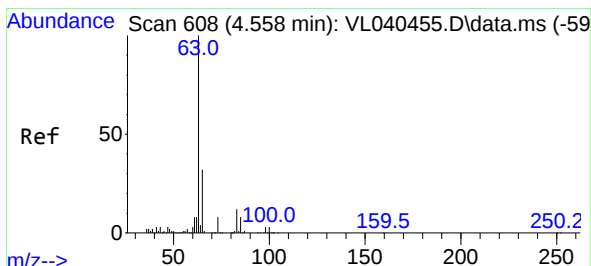
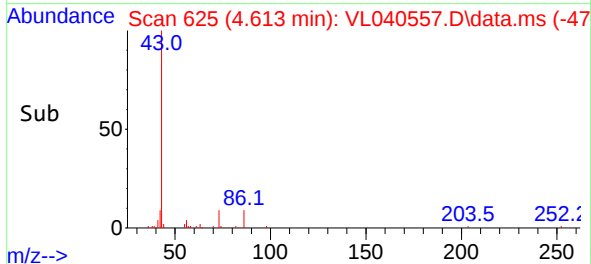
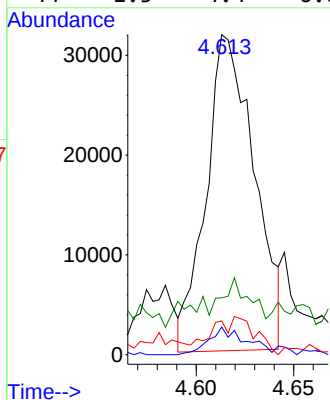
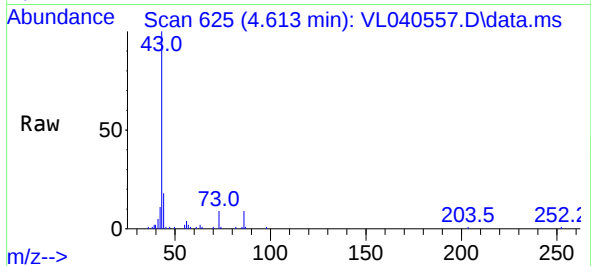




#23
Vinyl Acetate
Concen: 0.496 ppbv
RT: 4.613 min Scan# 61
Delta R.T. -0.022 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

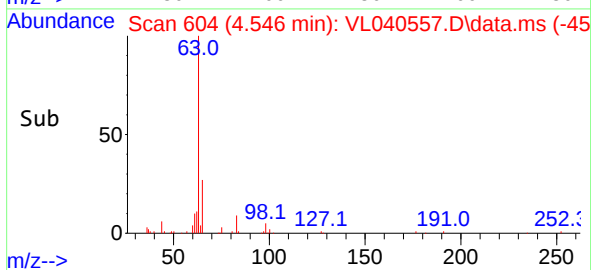
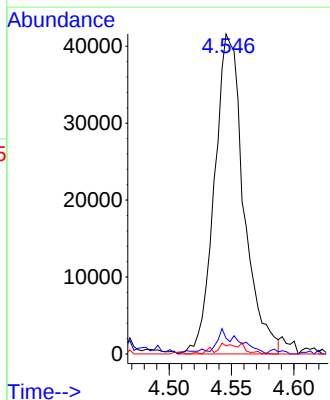
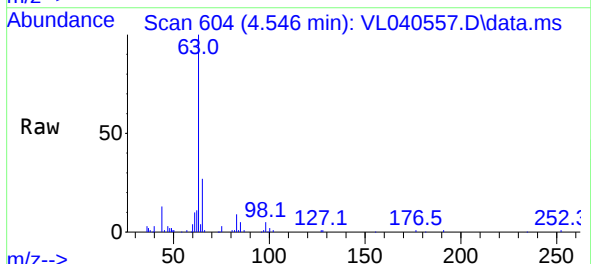
Instrument :
MSVOA_1
ClientSampleId :

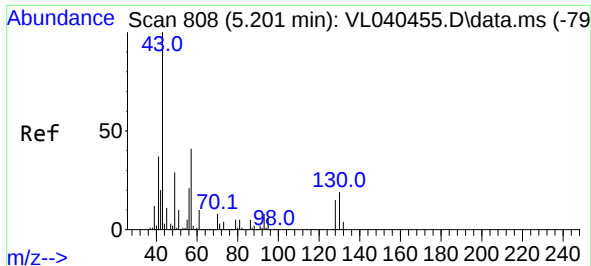
Tgt Ion:	43	Resp:	54500
Ion	Ratio	Lower	Upper
43	100		
86	9.8	5.6	8.4#
42	11.9	7.4	11.2#
44	1.5	4.4	6.6#



#24
1,1-Dichloroethane
Concen: 0.610 ppbv
RT: 4.546 min Scan# 604
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion:	63	Resp:	68035
Ion	Ratio	Lower	Upper
63	100		
98	4.5	1.8	5.5
100	2.5	1.4	4.0





#25

Ethyl Acetate

Concen: 0.502 ppbv

RT: 5.198 min Scan# 80

Delta R.T. -0.013 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 110167

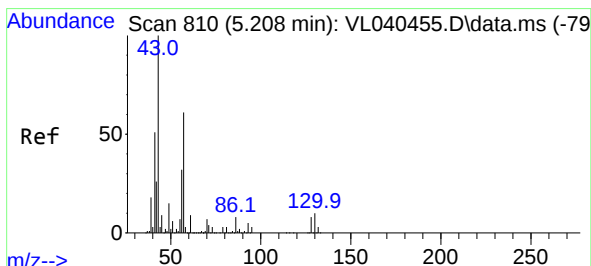
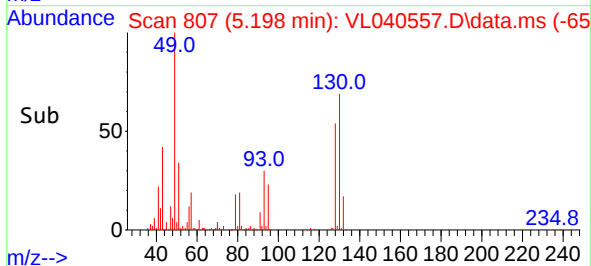
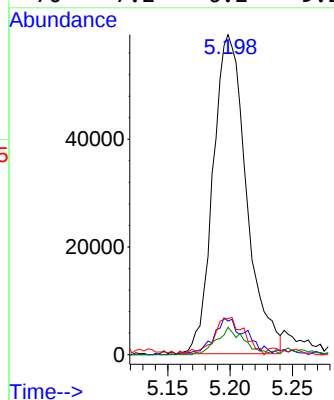
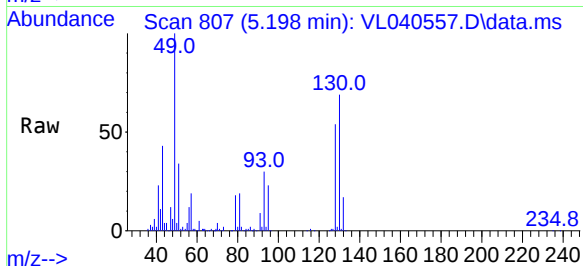
Ion Ratio Lower Upper

43 100

45 12.6 8.2 12.4#

61 12.4 8.3 12.5

70 7.2 6.2 9.2



#26

Hexane

Concen: 0.260 ppbv

RT: 5.195 min Scan# 806

Delta R.T. -0.026 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Tgt Ion: 57 Resp: 26504

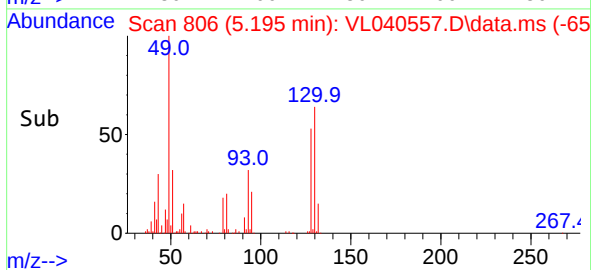
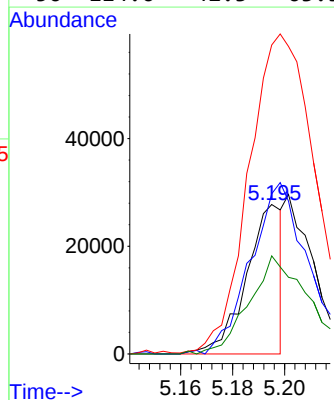
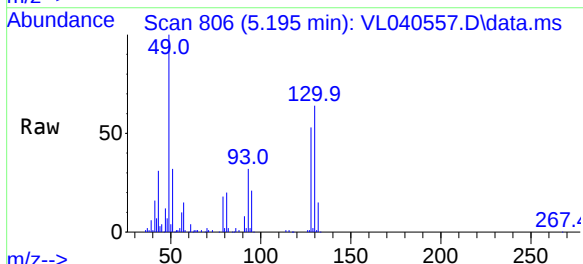
Ion Ratio Lower Upper

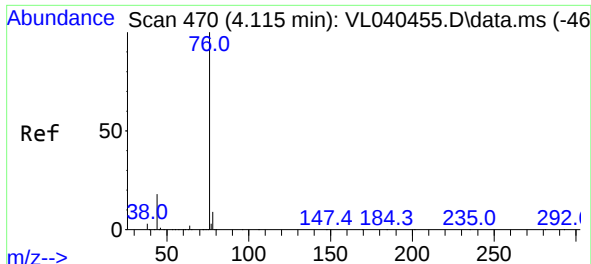
57 100

41 0.0 69.5 104.3#

43 0.0 177.1 265.7#

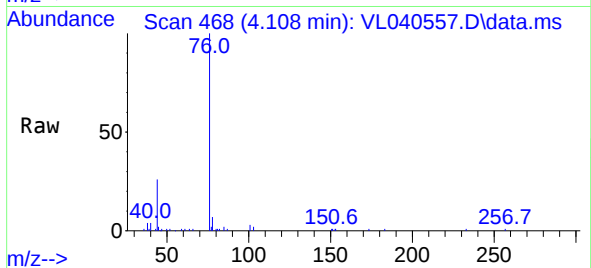
56 114.6 42.3 63.5#



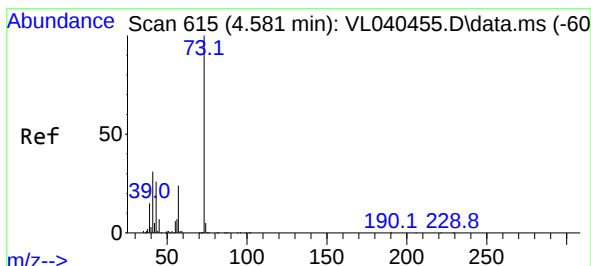
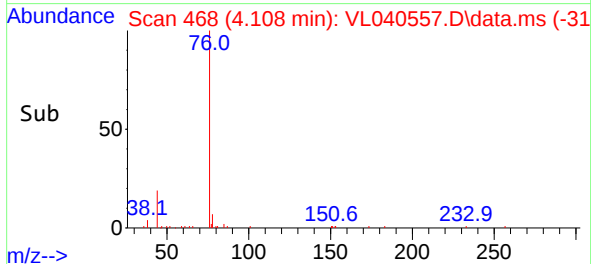
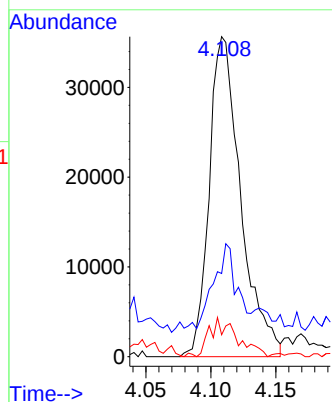


#27
Carbon Disulfide
Concen: 0.501 ppbv
RT: 4.108 min Scan# 41
Delta R.T. -0.022 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Instrument :
MSVOA_1
ClientSampleId :

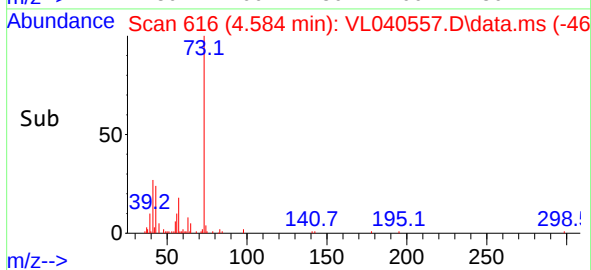
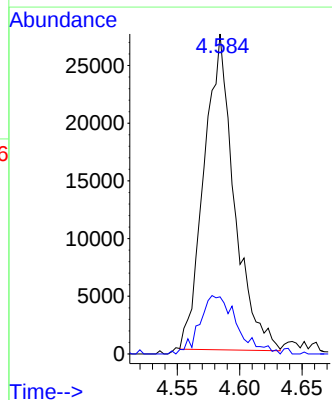
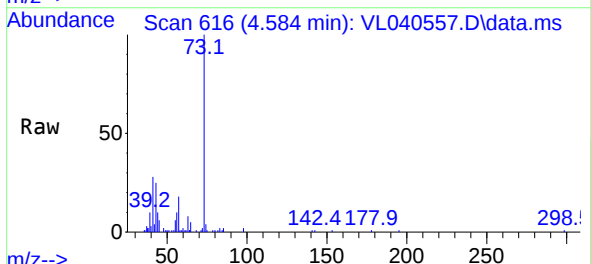


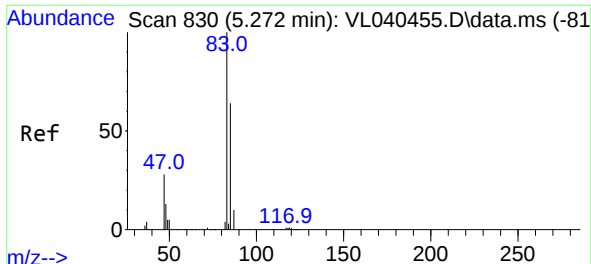
Tgt Ion: 76 Resp: 60187
Ion Ratio Lower Upper
76 100
44 25.9 15.1 22.7#
78 11.2 7.5 11.3



#28
Methyl tert-Butyl Ether
Concen: 0.562 ppbv
RT: 4.584 min Scan# 616
Delta R.T. -0.010 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 73 Resp: 46205
Ion Ratio Lower Upper
73 100
57 23.1 18.8 28.2





#29

Chloroform

Concen: 0.560 ppbv

RT: 5.263 min Scan# 81

Delta R.T. -0.022 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

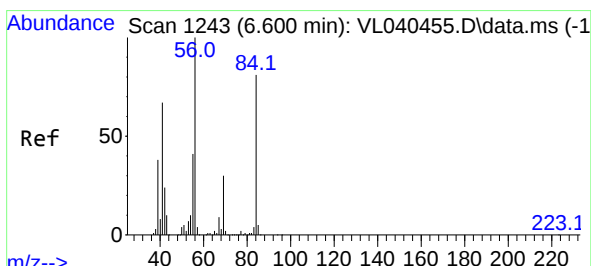
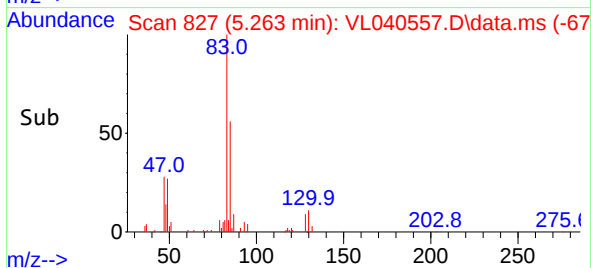
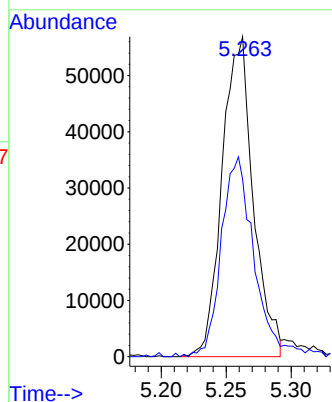
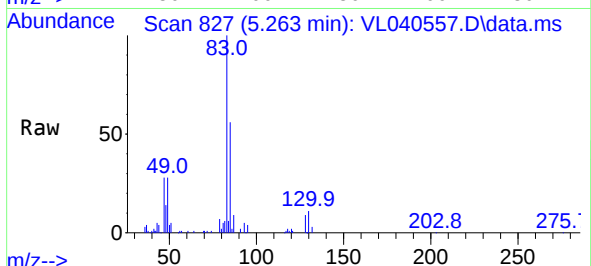
ClientSampleId :

Tgt Ion: 83 Resp: 94810

Ion Ratio Lower Upper

83 100

85 55.5 51.1 76.7



#30

Cyclohexane

Concen: 0.347 ppbv

RT: 6.587 min Scan# 1239

Delta R.T. -0.022 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

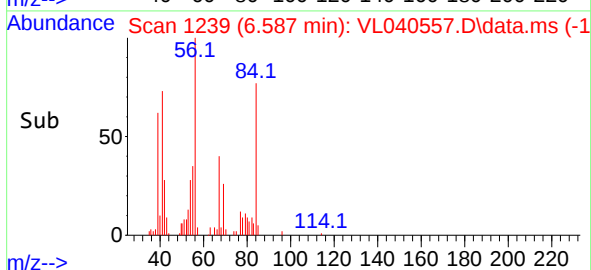
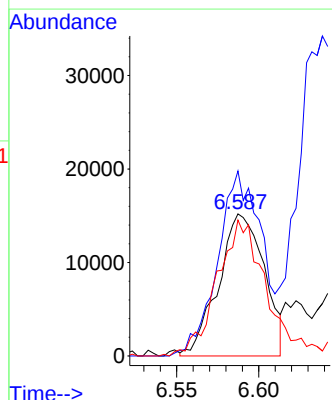
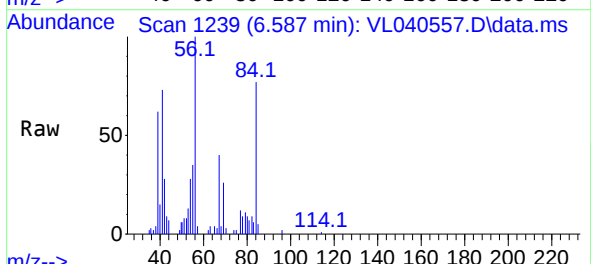
Tgt Ion: 84 Resp: 29444

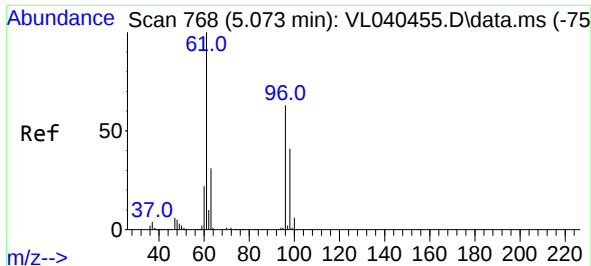
Ion Ratio Lower Upper

84 100

56 124.3 108.7 163.1

41 106.0 64.5 96.7#

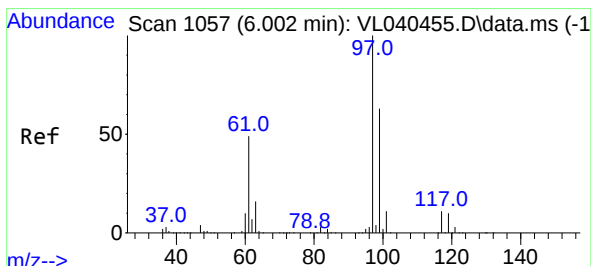
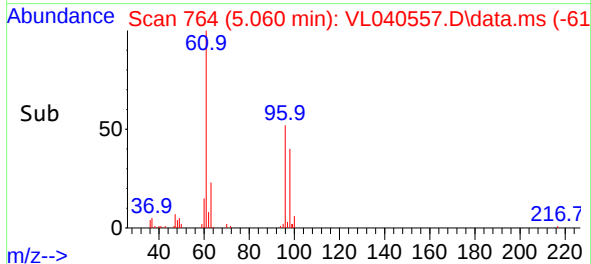
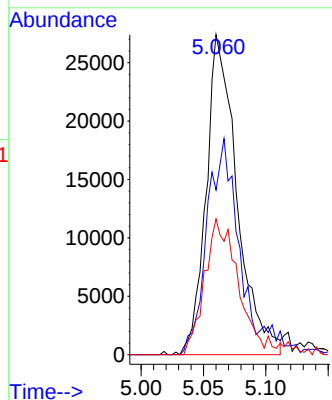
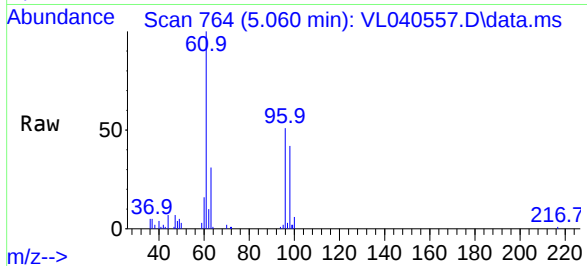




#31
 cis-1,2-Dichloroethene
 Concen: 0.468 ppbv
 RT: 5.060 min Scan# 764
 Delta R.T. -0.026 min
 Lab File: VL040557.D
 Acq: 27 Jul 2023 2:06

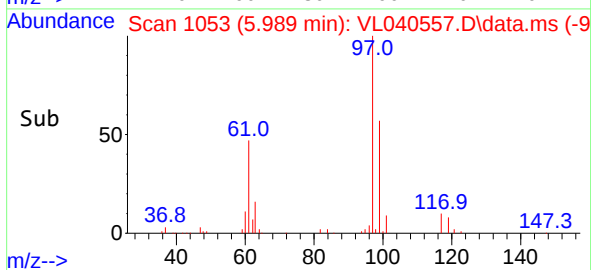
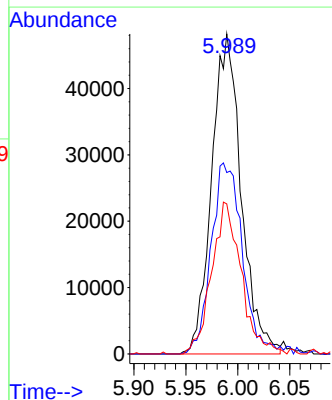
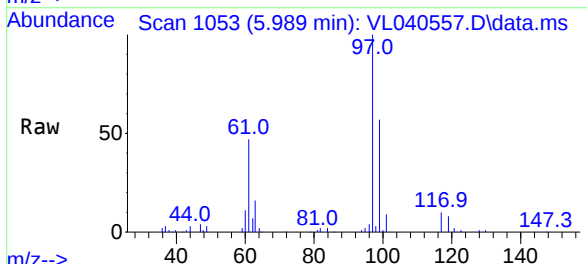
Instrument :
 MSVOA_L
 ClientSampleId :

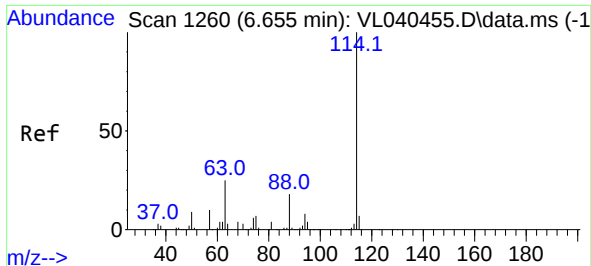
Tgt Ion: 61 Resp: 47222
 Ion Ratio Lower Upper
 61 100
 96 51.5 54.7 82.1#
 98 42.4 34.6 52.0



#32
 1,1,1-Trichloroethane
 Concen: 0.576 ppbv
 RT: 5.989 min Scan# 1053
 Delta R.T. -0.023 min
 Lab File: VL040557.D
 Acq: 27 Jul 2023 2:06

Tgt Ion: 97 Resp: 95340
 Ion Ratio Lower Upper
 97 100
 99 63.5 52.0 78.0
 61 47.8 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 114

Delta R.T. -0.022 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

ClientSampleId :

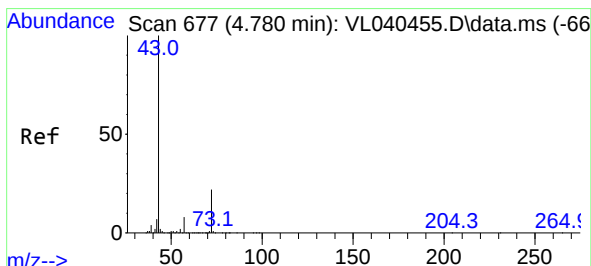
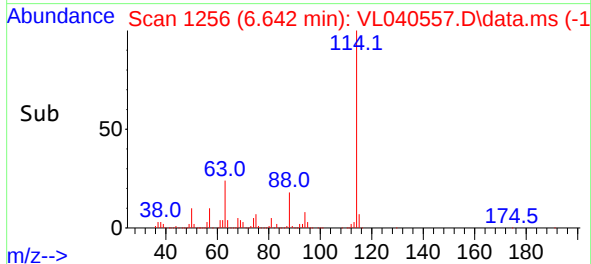
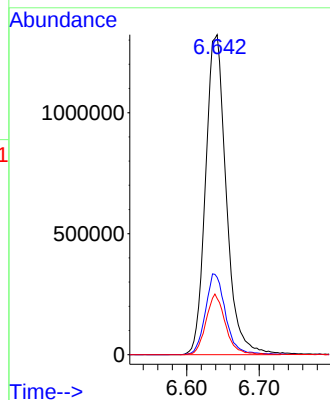
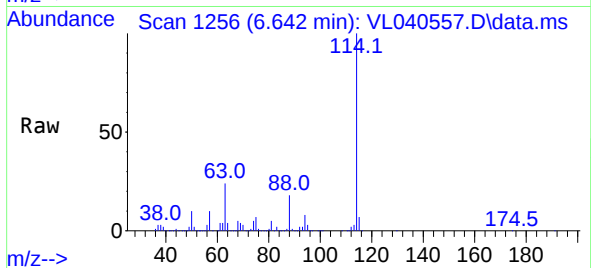
Tgt Ion:114 Resp: 2621212

Ion Ratio Lower Upper

114 100

63 24.9 19.6 29.4

88 18.0 14.2 21.2



#34

2-Butanone

Concen: 0.212 ppbv

RT: 4.780 min Scan# 677

Delta R.T. -0.013 min

Lab File: VL040557.D

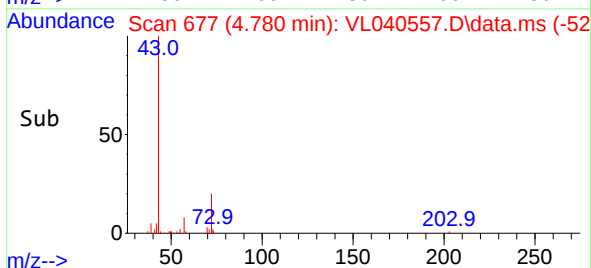
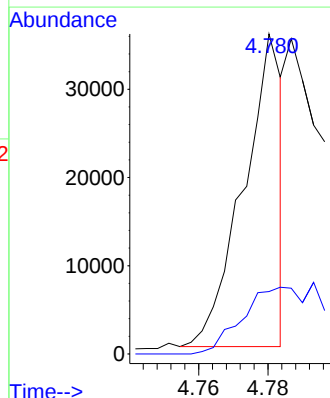
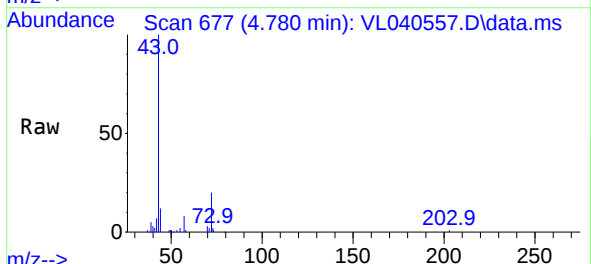
Acq: 27 Jul 2023 2:06

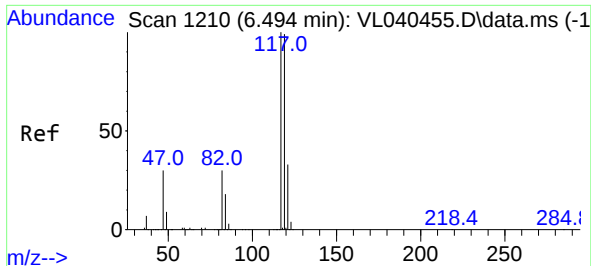
Tgt Ion: 43 Resp: 27398

Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#

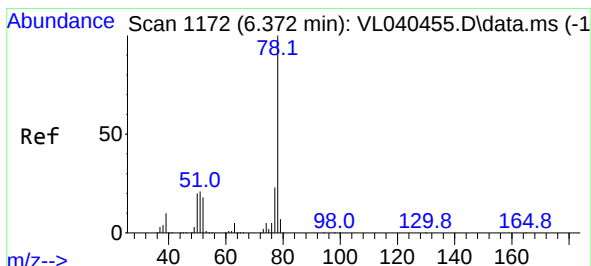
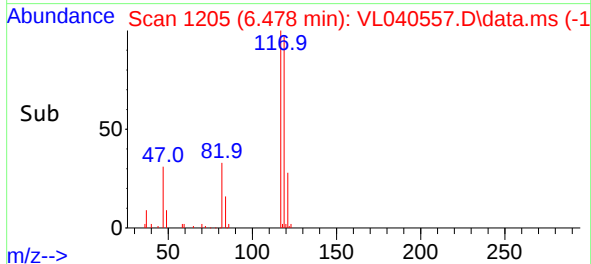
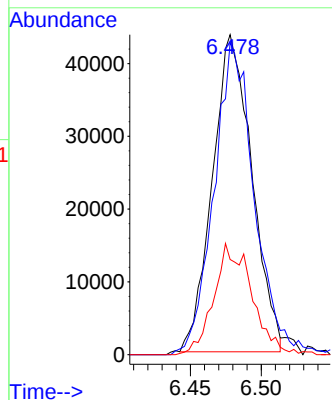
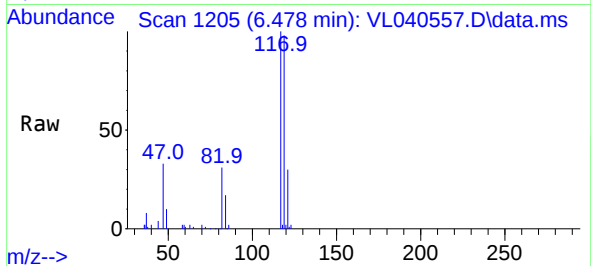




#35
Carbon Tetrachloride
Concen: 0.536 ppbv
RT: 6.478 min Scan# 1167
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

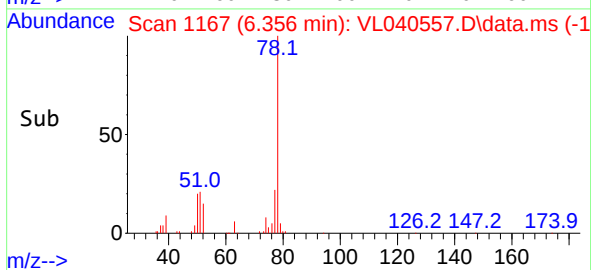
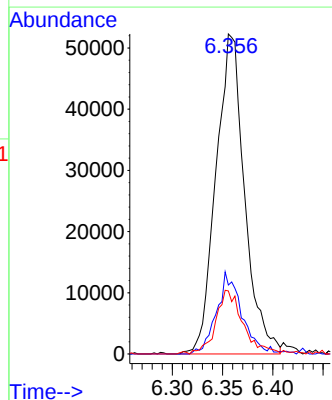
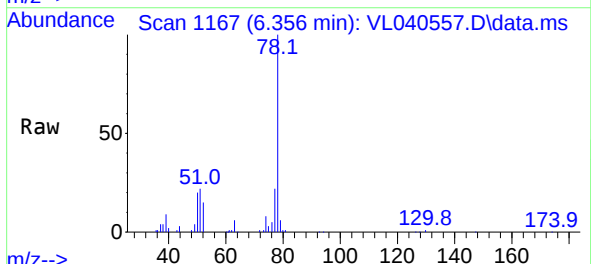
Instrument :
MSVOA_L
ClientSampleId :

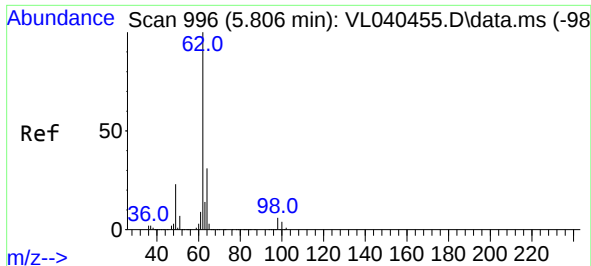
Tgt Ion:117 Resp: 84477
Ion Ratio Lower Upper
117 100
119 96.6 77.8 116.6
121 29.6 24.8 37.2



#36
Benzene
Concen: 0.491 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 78 Resp: 103587
Ion Ratio Lower Upper
78 100
77 21.7 17.4 26.0
50 19.4 14.4 21.6

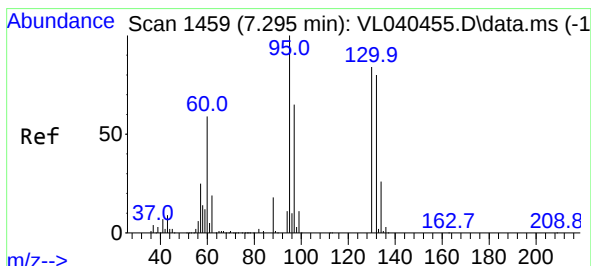
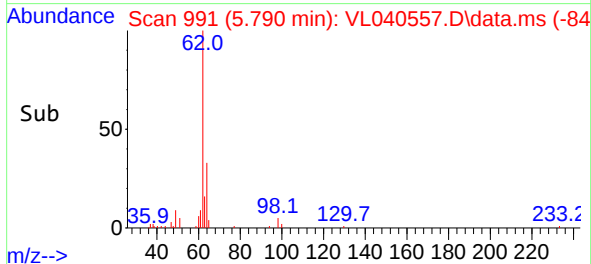
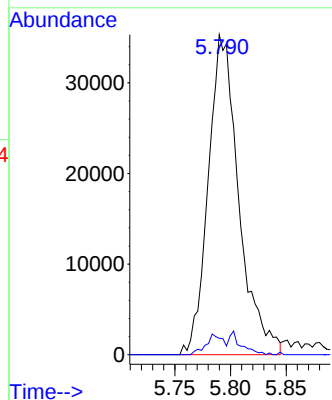
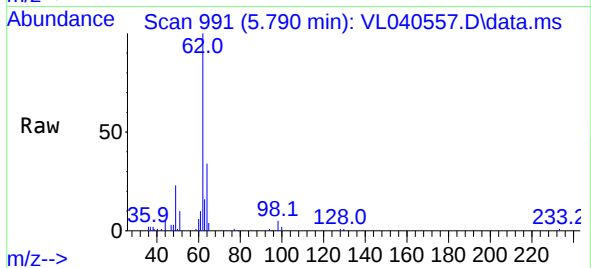




#37
1,2-Dichloroethane
Concen: 0.543 ppbv
RT: 5.790 min Scan# 996
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

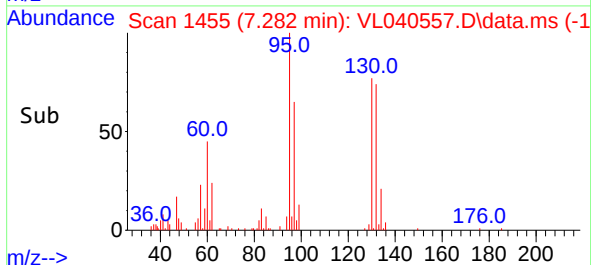
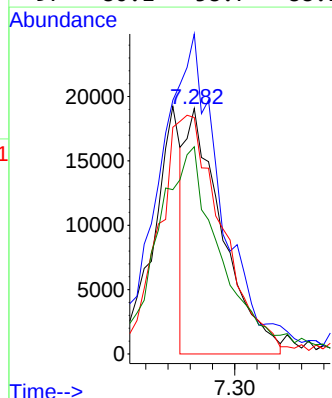
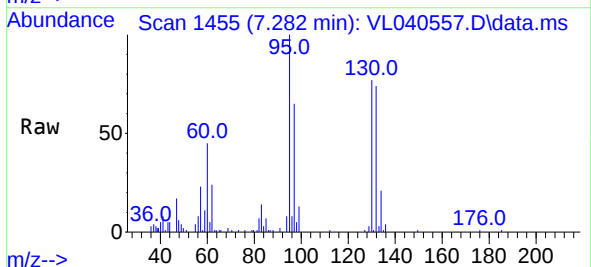
Instrument :
MSVOA_L
ClientSampleId :

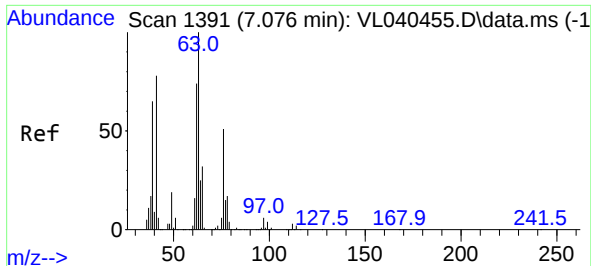
Tgt Ion: 62 Resp: 67401
Ion Ratio Lower Upper
62 100
98 6.5 5.1 7.7



#38
Trichloroethene
Concen: 0.276 ppbv
RT: 7.282 min Scan# 1455
Delta R.T. -0.023 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion:130 Resp: 22011
Ion Ratio Lower Upper
130 100
95 124.1 90.2 135.2
132 97.5 76.3 114.5
97 80.1 58.7 88.1

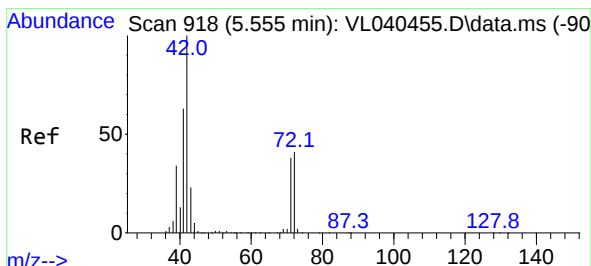
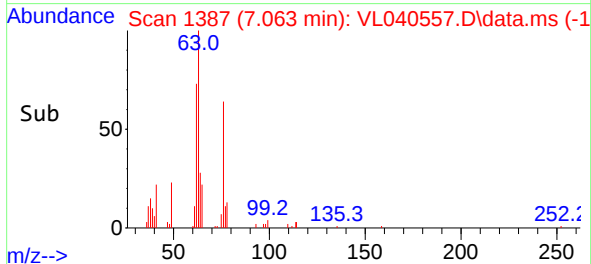
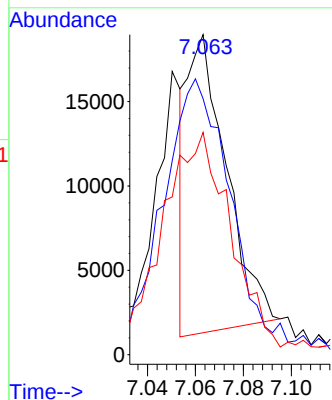
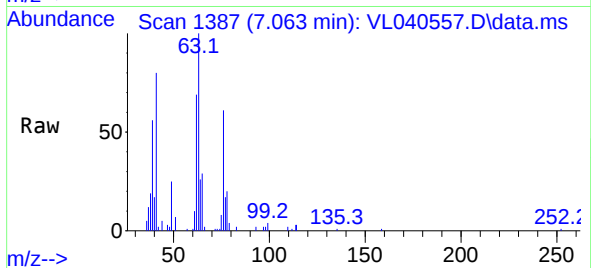




#39
1,2-Dichloropropane
Concen: 0.249 ppbv
RT: 7.063 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

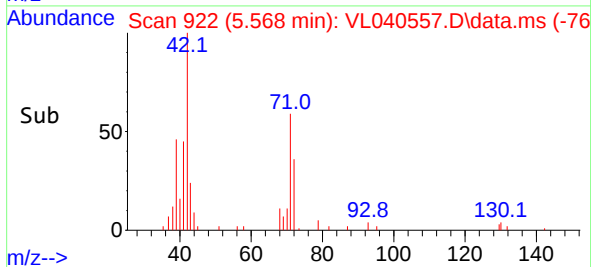
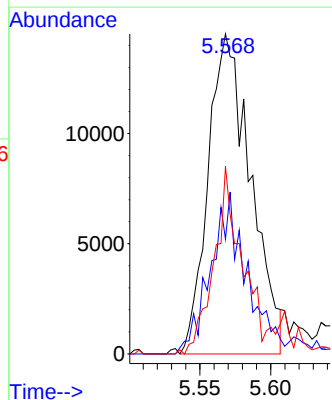
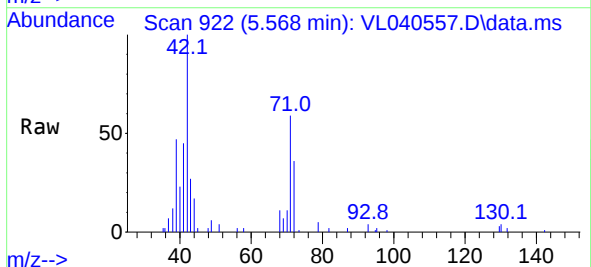
Instrument :
MSVOA_L
ClientSampleId :

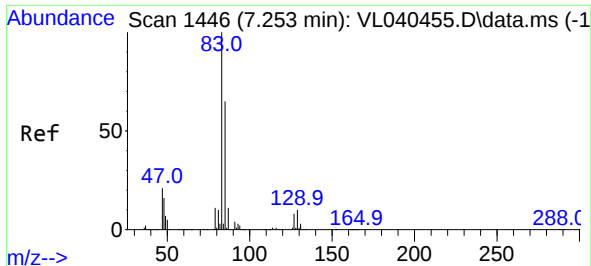
Tgt Ion: 63 Resp: 20213
Ion Ratio Lower Upper
63 100
41 79.0 54.3 81.5
62 75.5 55.6 83.4



#41
Tetrahydrofuran
Concen: 0.401 ppbv
RT: 5.568 min Scan# 922
Delta R.T. 0.003 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 42 Resp: 30298
Ion Ratio Lower Upper
42 100
72 45.4 33.8 50.8
71 44.7 33.0 49.6





#42

Bromodichloromethane

Concen: 0.502 ppbv

RT: 7.237 min Scan# 1446

Delta R.T. -0.023 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

ClientSampleId :

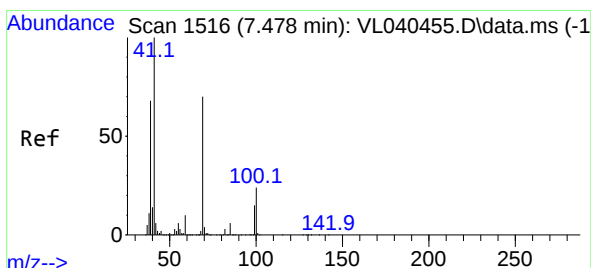
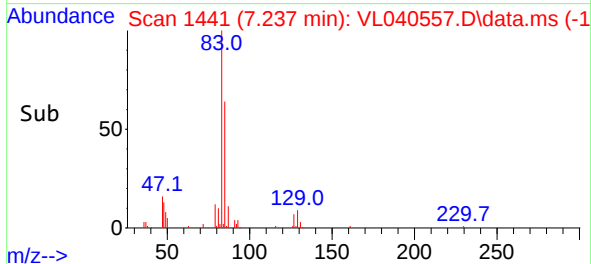
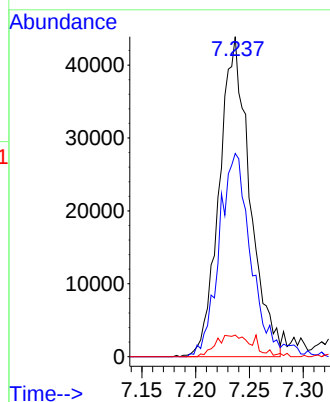
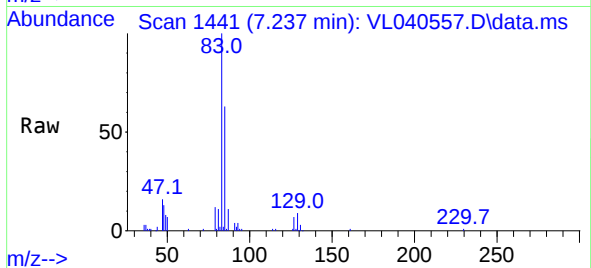
Tgt Ion: 83 Resp: 86545

Ion Ratio Lower Upper

83 100

85 63.5 51.1 76.7

127 6.8 6.5 9.7



#43

Methyl Methacrylate

Concen: 0.365 ppbv

RT: 7.471 min Scan# 1514

Delta R.T. -0.013 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

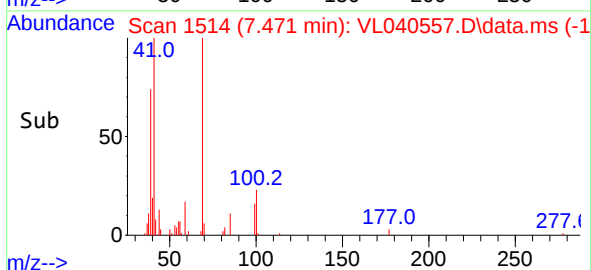
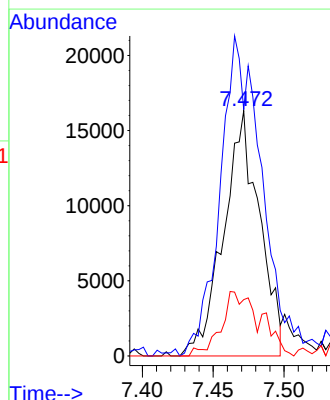
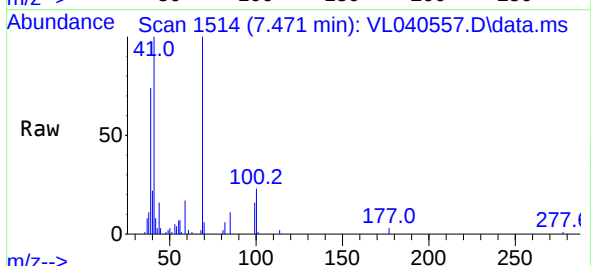
Tgt Ion: 69 Resp: 28816

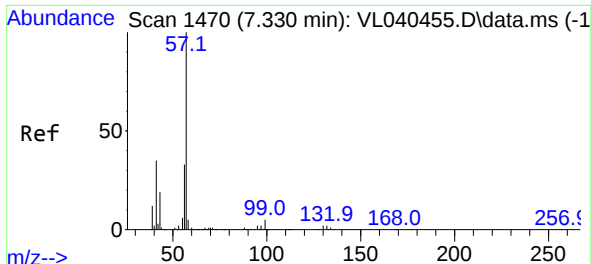
Ion Ratio Lower Upper

69 100

41 153.1 111.7 167.5

100 30.4 26.9 40.3

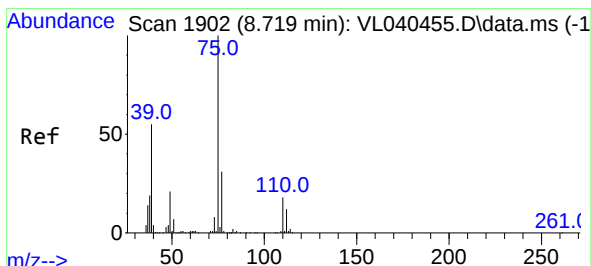
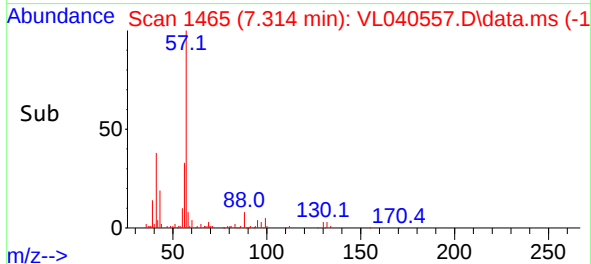
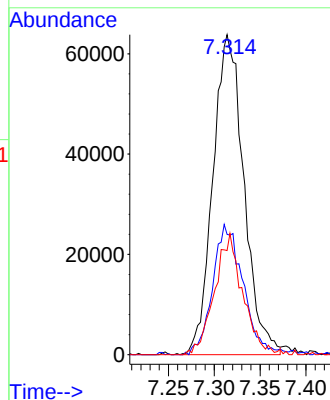
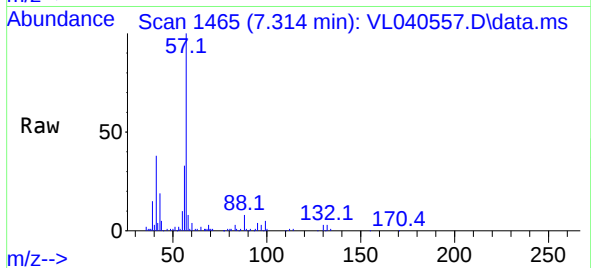




#44
2,2,4-Trimethylpentane
Concen: 0.442 ppbv
RT: 7.314 min Scan# 1470
Delta R.T. -0.023 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

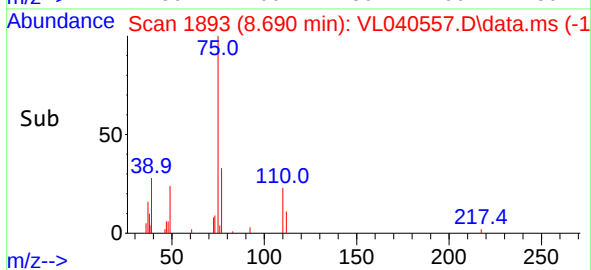
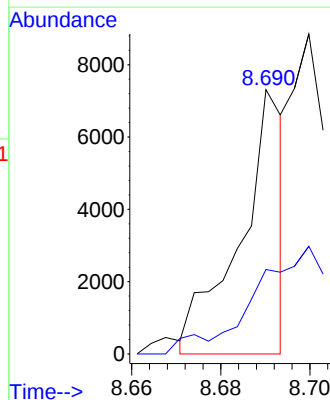
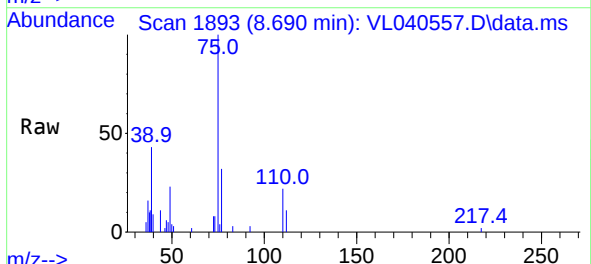
Instrument :
MSVOA_L
ClientSampleId :

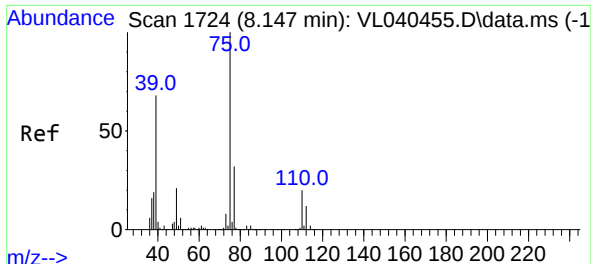
Tgt Ion: 57 Resp: 149835
Ion Ratio Lower Upper
57 100
41 40.3 25.5 38.3#
56 34.7 25.1 37.7



#45
t-1,3-Dichloropropene
Concen: 0.098 ppbv
RT: 8.690 min Scan# 1893
Delta R.T. -0.032 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

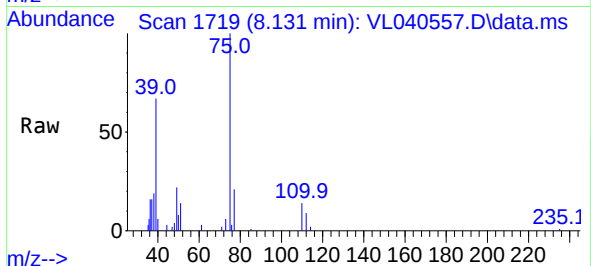
Tgt Ion: 75 Resp: 4982
Ion Ratio Lower Upper
75 100
77 32.0 26.0 39.0



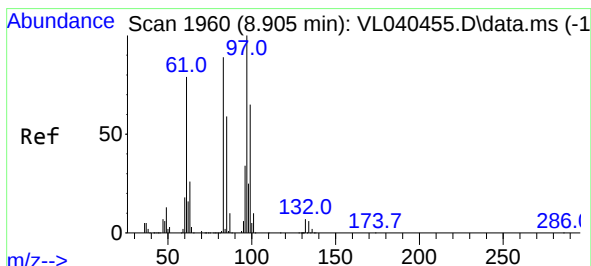
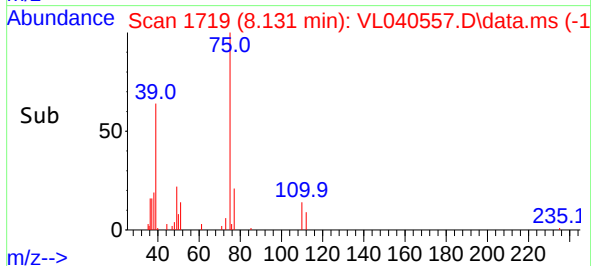
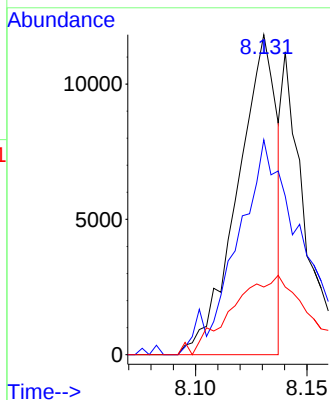


#46
 cis-1,3-Dichloropropene
 Concen: 0.222 ppbv
 RT: 8.131 min Scan# 1
 Delta R.T. -0.023 min
 Lab File: VL040557.D
 Acq: 27 Jul 2023 2:06

Instrument :
 MSVOA_L
 ClientSampleId :

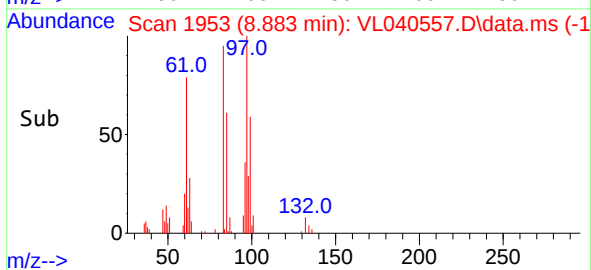
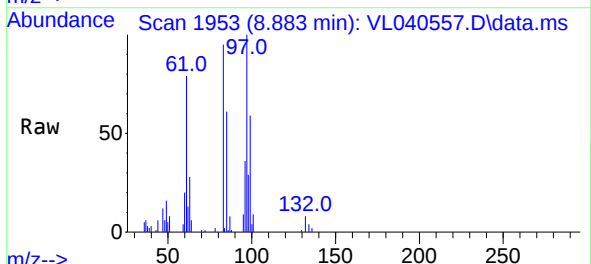
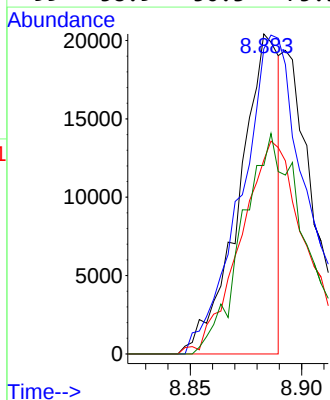


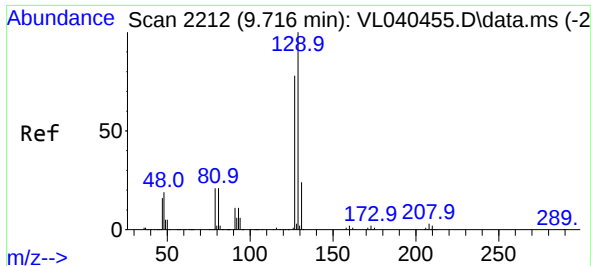
Tgt Ion: 75 Resp: 14406
 Ion Ratio Lower Upper
 75 100
 39 67.2 48.0 72.0
 77 21.1 24.0 36.0#



#47
 1,1,2-Trichloroethane
 Concen: 0.282 ppbv
 RT: 8.883 min Scan# 1953
 Delta R.T. -0.026 min
 Lab File: VL040557.D
 Acq: 27 Jul 2023 2:06

Tgt Ion: 97 Resp: 25247
 Ion Ratio Lower Upper
 97 100
 83 97.2 73.4 110.0
 85 60.5 46.6 70.0
 99 58.9 50.3 75.5

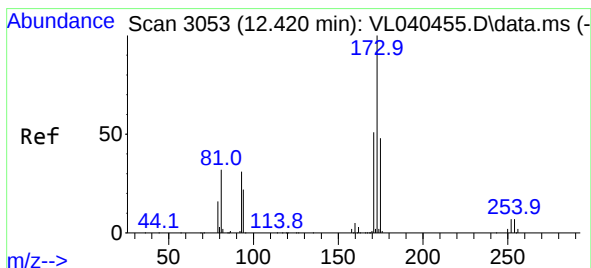
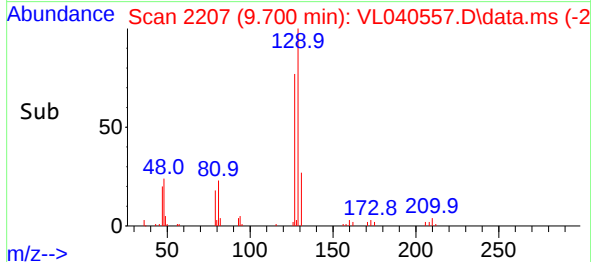
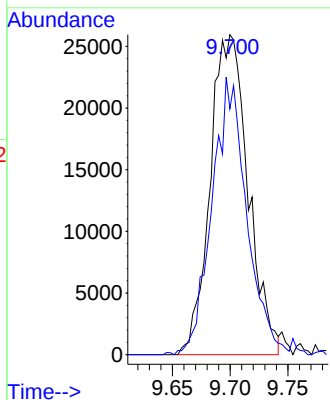
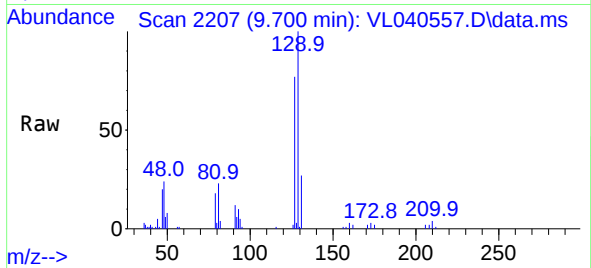




#48
Dibromochloromethane
Concen: 0.428 ppbv
RT: 9.700 min Scan# 21
Delta R.T. -0.022 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

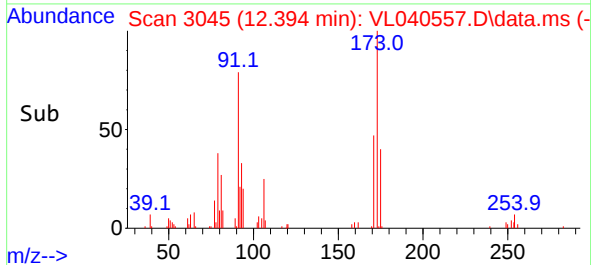
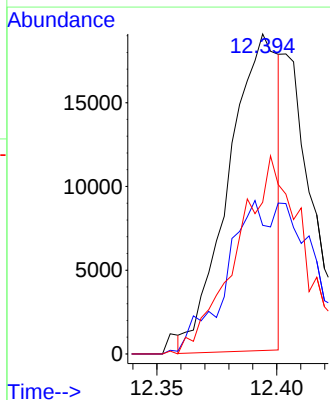
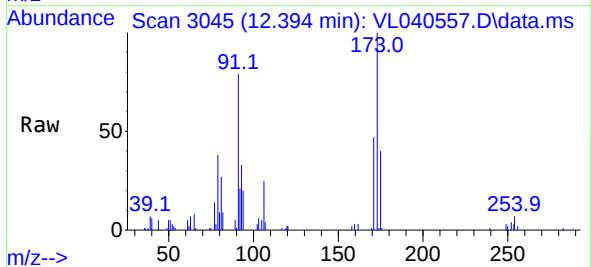
Instrument :
MSVOA_L
ClientSampleId :

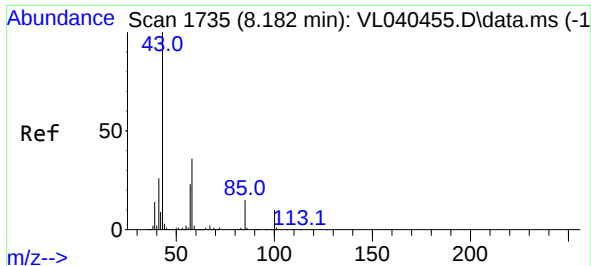
Tgt Ion:129 Resp: 59275
Ion Ratio Lower Upper
129 100
127 79.9 39.1 117.3



#49
Bromoform
Concen: 0.247 ppbv
RT: 12.394 min Scan# 3045
Delta R.T. -0.029 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion:173 Resp: 27137
Ion Ratio Lower Upper
173 100
175 85.8 39.5 59.3#
171 88.7 42.2 63.4#





#50

4-Methyl-2-Pentanone

Concen: 0.391 ppbv

RT: 8.189 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

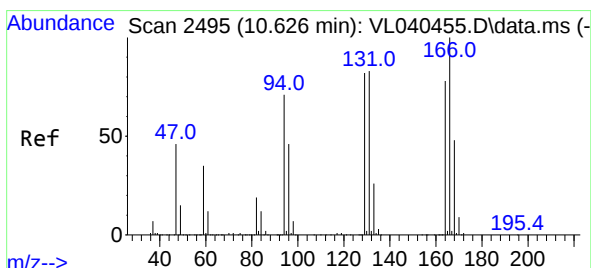
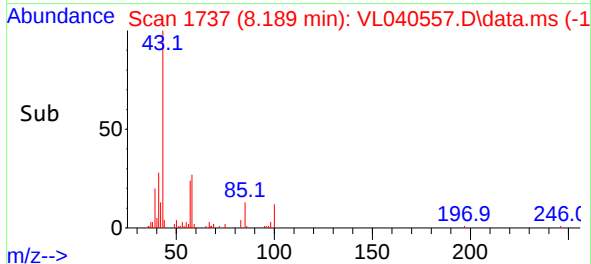
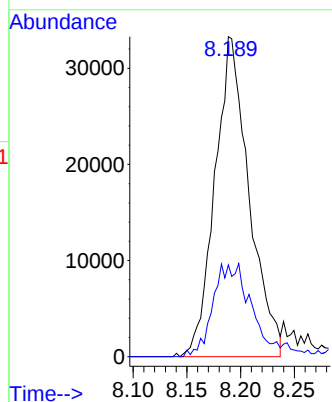
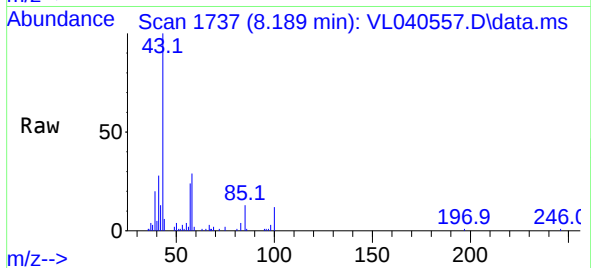
ClientSampleId :

Tgt Ion: 43 Resp: 73519

Ion Ratio Lower Upper

43 100

58 34.9 30.2 45.2



#52

Tetrachloroethene

Concen: 0.409 ppbv

RT: 10.603 min Scan# 2488

Delta R.T. -0.023 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Tgt Ion:164 Resp: 27922

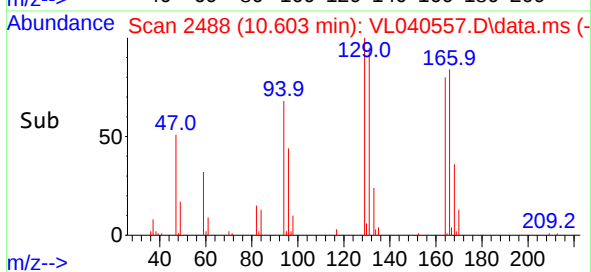
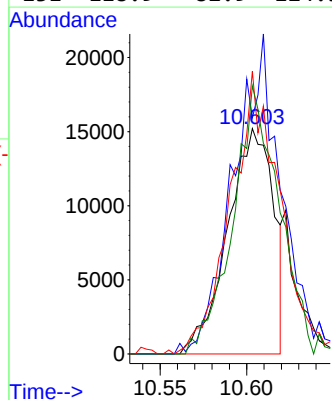
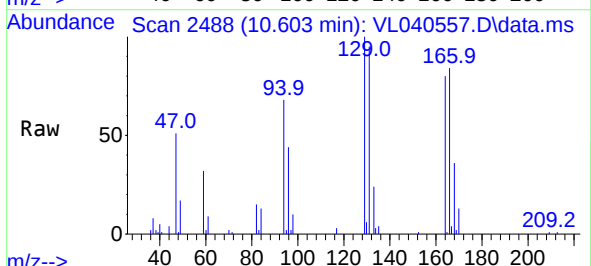
Ion Ratio Lower Upper

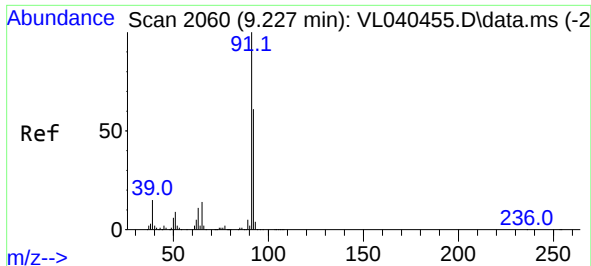
164 100

166 100.1 103.9 155.9#

129 123.7 84.6 126.8

131 118.9 82.9 124.3

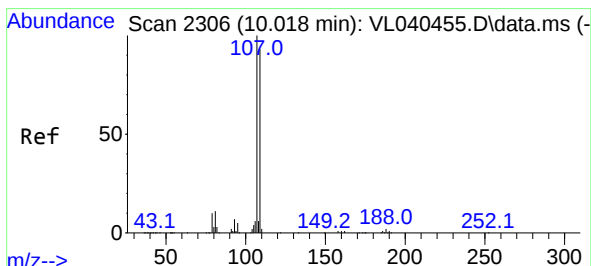
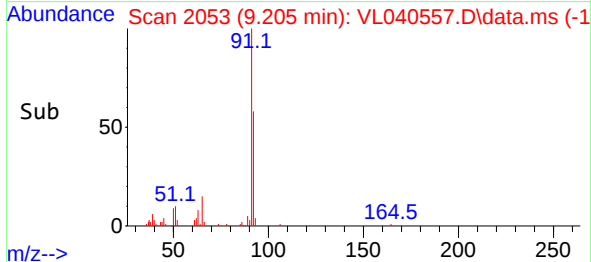
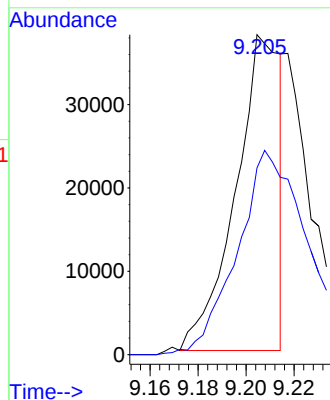
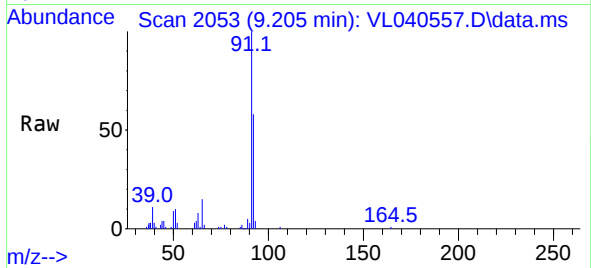




#53
Toluene
Concen: 0.214 ppbv
RT: 9.205 min Scan# 2060
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

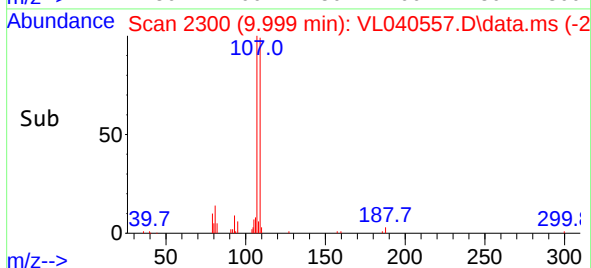
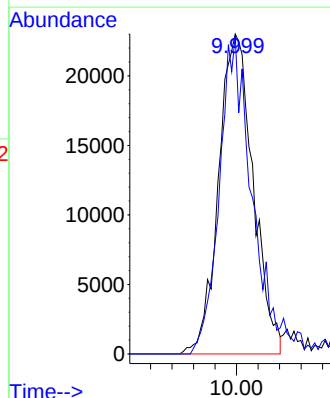
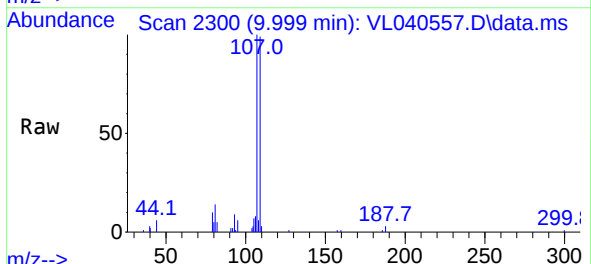
Instrument :
MSVOA_L
ClientSampleId :

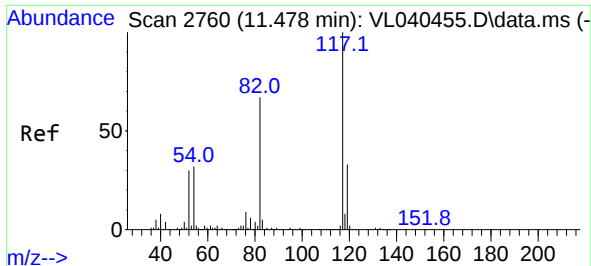
Tgt Ion: 91 Resp: 48966
Ion Ratio Lower Upper
91 100
92 105.6 49.1 73.7#



#54
1,2-Dibromoethane
Concen: 0.460 ppbv
RT: 9.999 min Scan# 2300
Delta R.T. -0.023 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

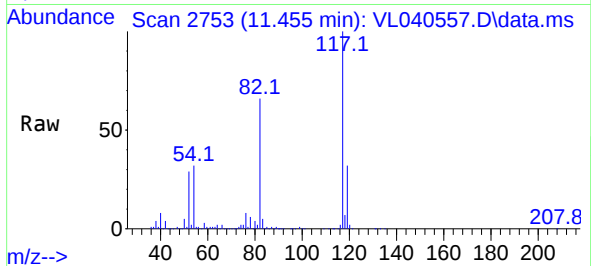
Tgt Ion: 107 Resp: 51261
Ion Ratio Lower Upper
107 100
109 99.4 75.4 113.2



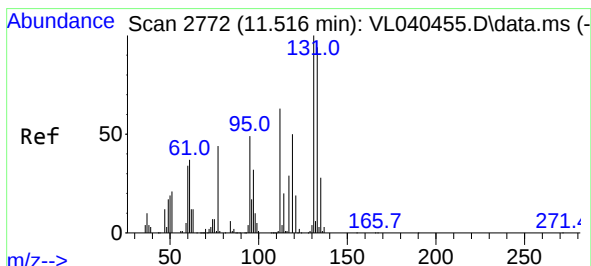
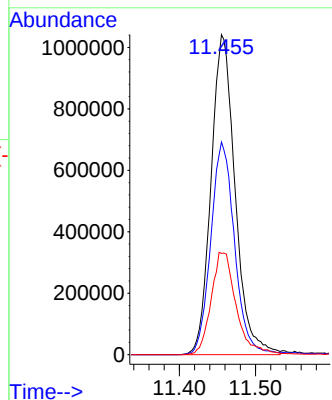
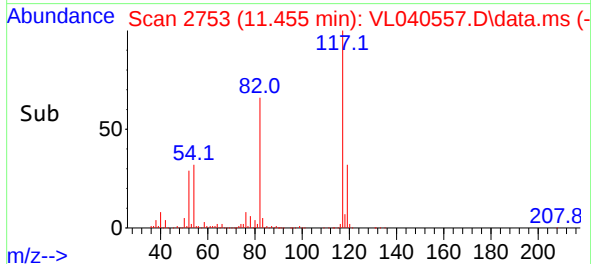


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

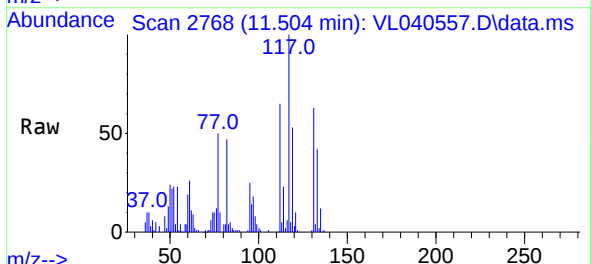
Instrument :
MSVOA_L
ClientSampleId :



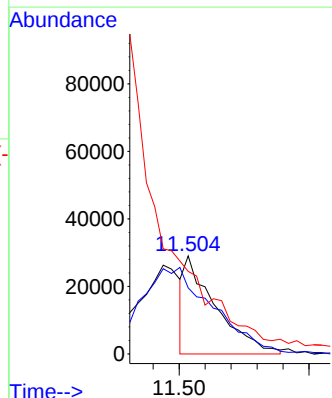
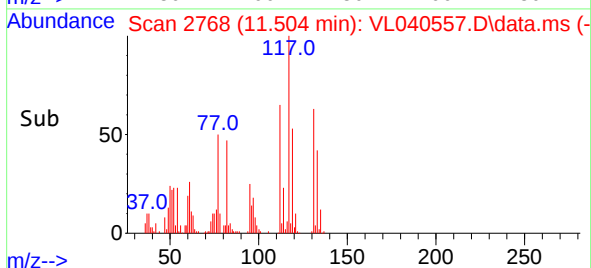
Tgt Ion:117 Resp: 2288525
Ion Ratio Lower Upper
117 100
82 66.8 50.2 75.4
119 33.4 26.9 40.3

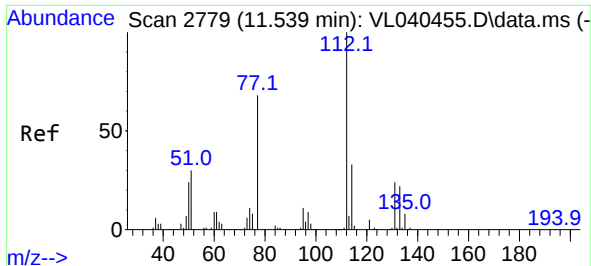


#56
1,1,1,2-Tetrachloroethane
Concen: 0.237 ppbv
RT: 11.504 min Scan# 2768
Delta R.T. -0.016 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06



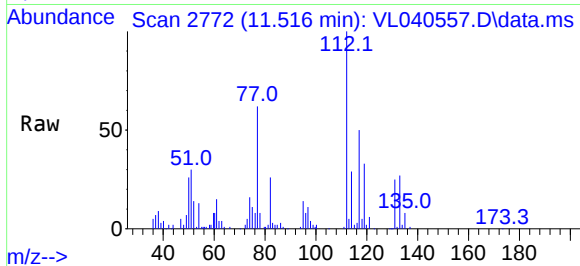
Tgt Ion:131 Resp: 24256
Ion Ratio Lower Upper
131 100
133 223.1 76.3 114.5#
119 0.0 51.1 76.7#



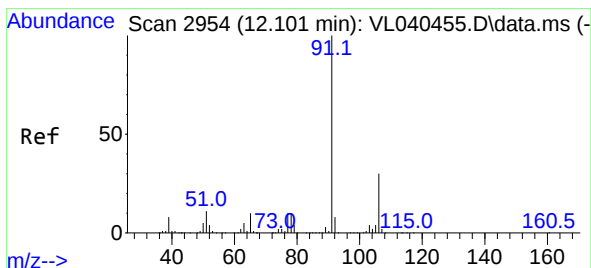
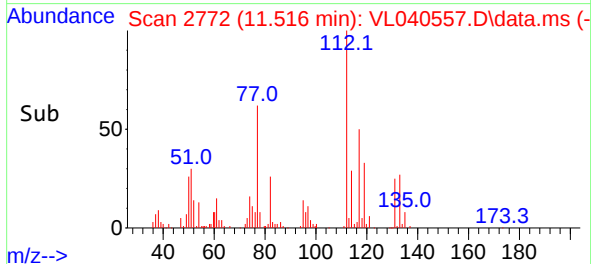
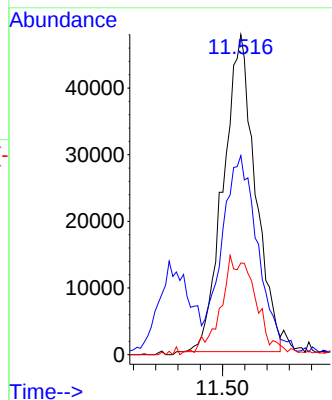


#57
Chlorobenzene
Concen: 0.533 ppbv
RT: 11.516 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Instrument :
MSVOA_L
ClientSampleId :

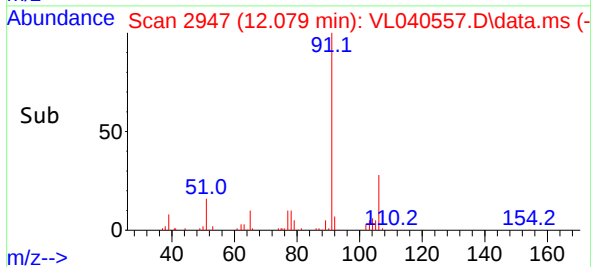
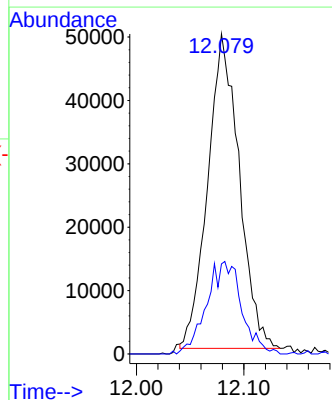
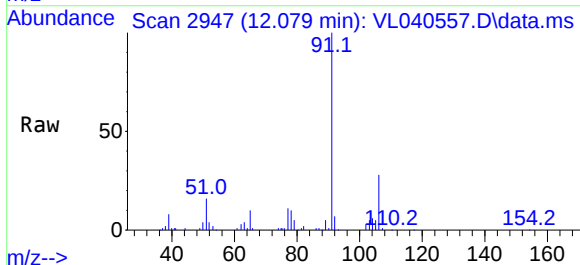


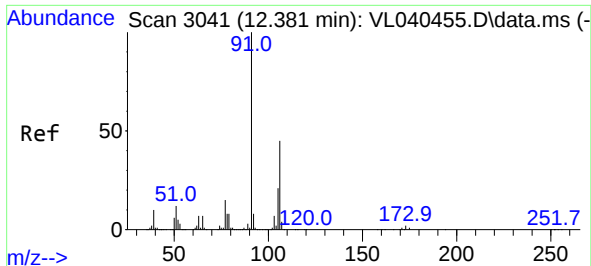
Tgt Ion:112 Resp: 95047
Ion Ratio Lower Upper
112 100
77 57.9 51.0 76.6
114 28.9 28.3 34.5



#58
Ethyl Benzene
Concen: 0.351 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. -0.023 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 91 Resp: 100799
Ion Ratio Lower Upper
91 100
106 28.7 25.4 38.0





#59

m/p-Xylene

Concen: 0.329 ppbv

RT: 12.365 min Scan# 3041

Delta R.T. -0.019 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

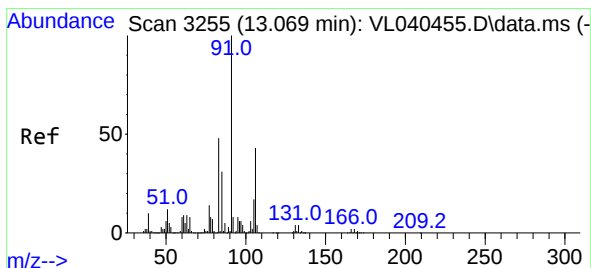
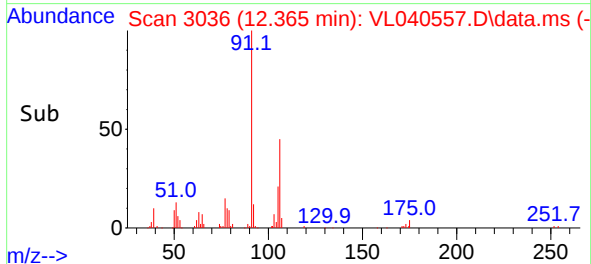
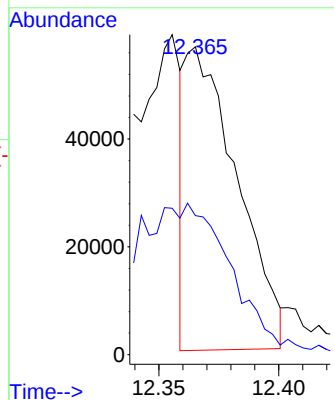
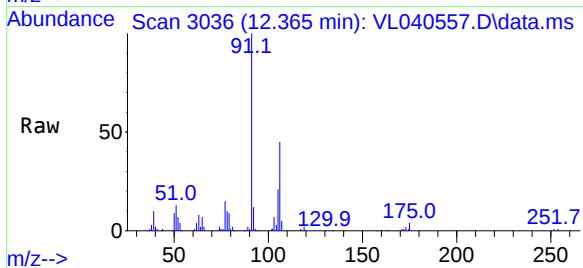
ClientSampleId :

Tgt Ion: 91 Resp: 84386

Ion Ratio Lower Upper

91 100

106 115.2 35.9 53.9#



#60

o-Xylene

Concen: 0.430 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. -0.019 min

Lab File: VL040557.D

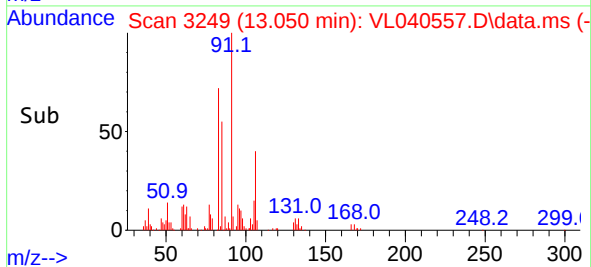
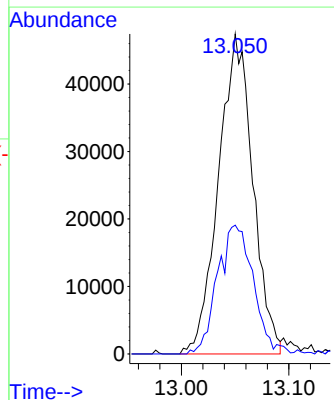
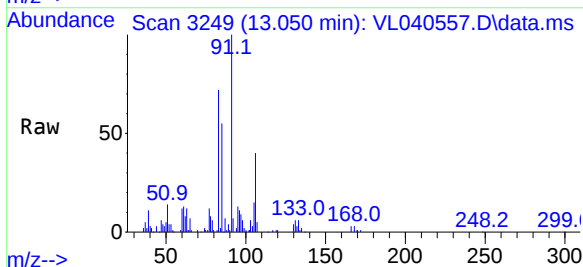
Acq: 27 Jul 2023 2:06

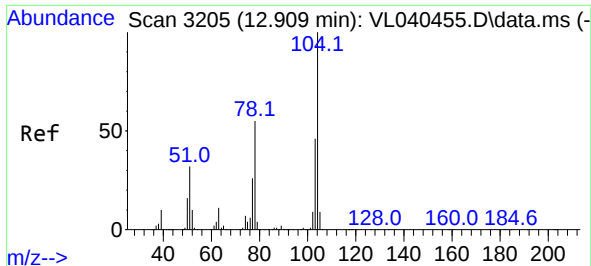
Tgt Ion: 91 Resp: 104954

Ion Ratio Lower Upper

91 100

106 42.6 22.7 68.0

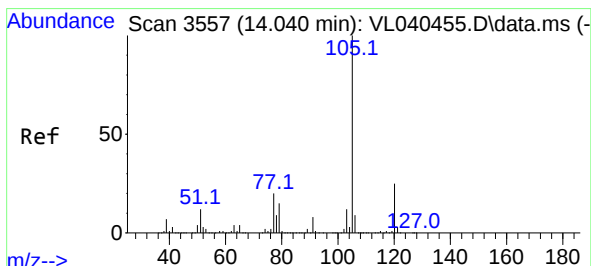
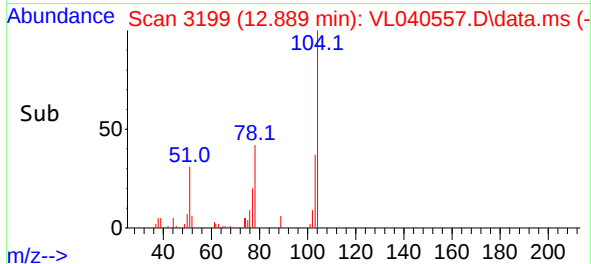
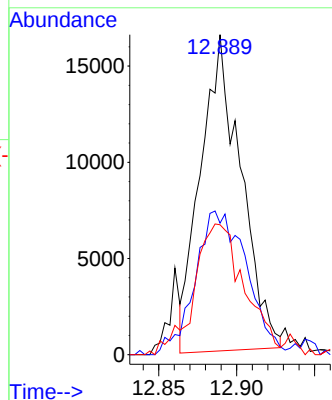
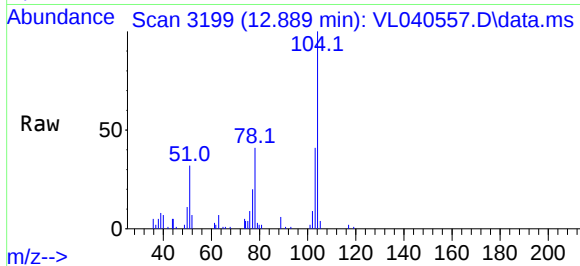




#61
Styrene
Concen: 0.263 ppbv
RT: 12.889 min Scan# 3199
Delta R.T. -0.022 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

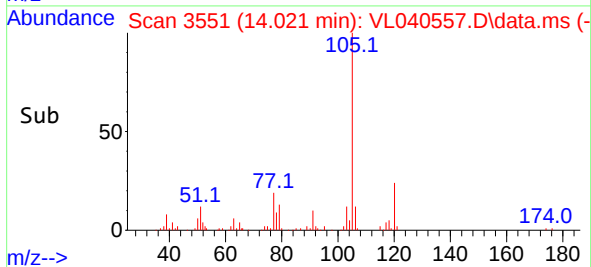
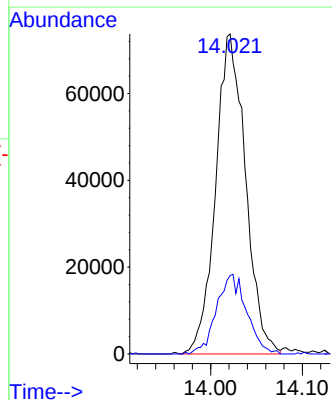
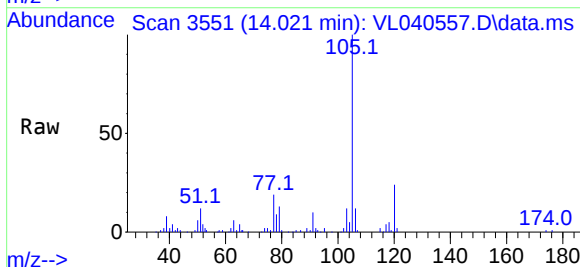
Instrument :
MSVOA_L
ClientSampleId :

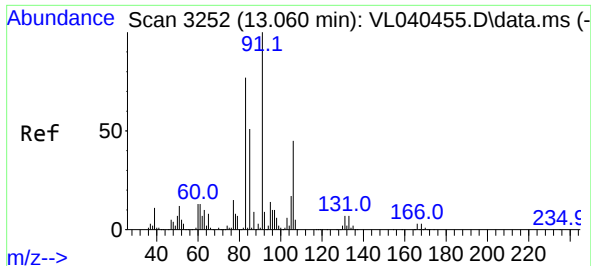
Tgt Ion:104 Resp: 29624
Ion Ratio Lower Upper
104 100
78 61.2 40.1 60.1#
103 54.0 37.0 55.4



#62
Isopropylbenzene
Concen: 0.456 ppbv
RT: 14.021 min Scan# 3551
Delta R.T. -0.019 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion:105 Resp: 166778
Ion Ratio Lower Upper
105 100
120 25.0 20.8 31.2

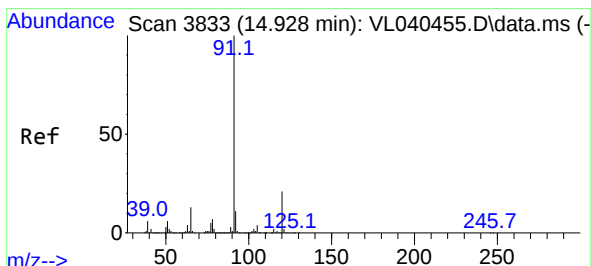
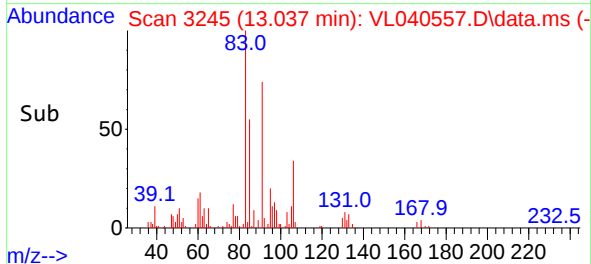
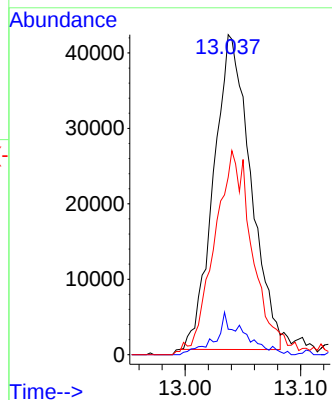
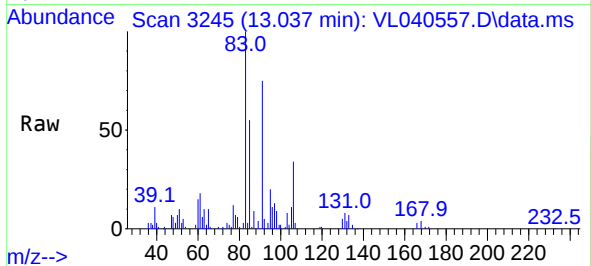




#63
1,1,2,2-Tetrachloroethane
Concen: 0.543 ppbv
RT: 13.037 min Scan# 31
Delta R.T. -0.022 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

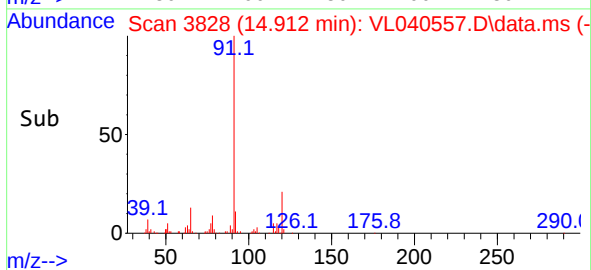
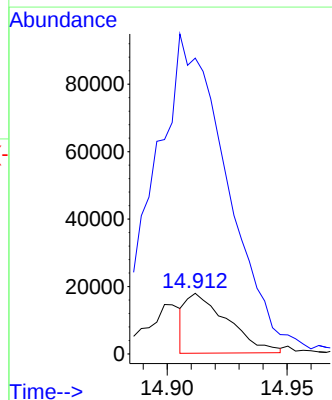
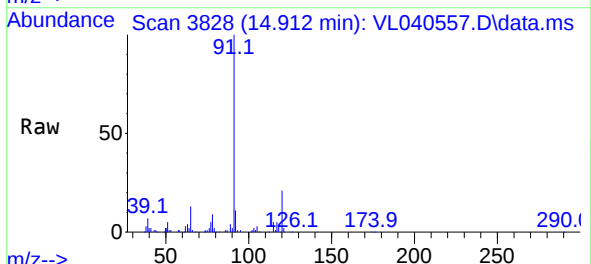
Instrument :
MSVOA_L
ClientSampleId :

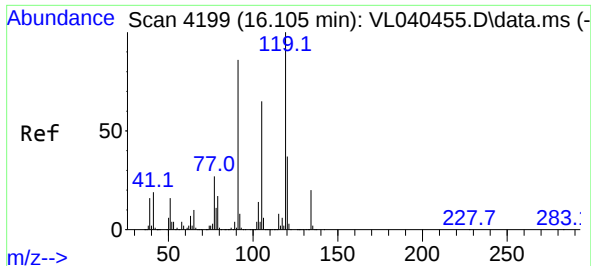
Tgt Ion: 83 Resp: 92908
Ion Ratio Lower Upper
83 100
131 10.3 4.6 13.8
85 69.7 32.8 98.3



#64
n-propylbenzene
Concen: 0.228 ppbv
RT: 14.912 min Scan# 3828
Delta R.T. -0.019 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 120 Resp: 21546
Ion Ratio Lower Upper
120 100
91 978.7 374.3 561.5#

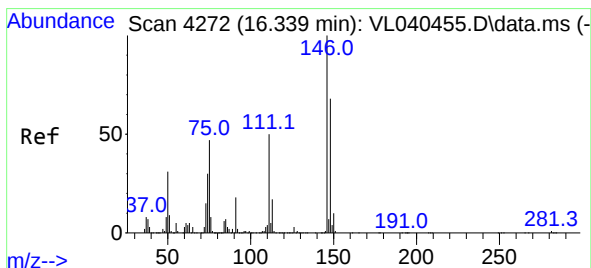
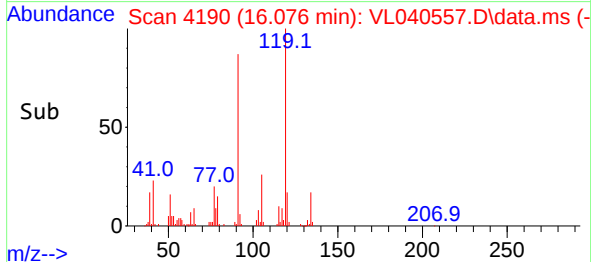
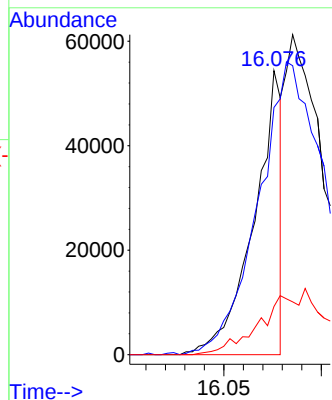
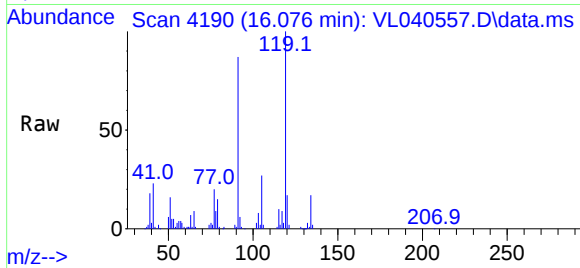




#65
tert-Butylbenzene
Concen: 0.165 ppbv
RT: 16.076 min Scan# 4199
Delta R.T. -0.026 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

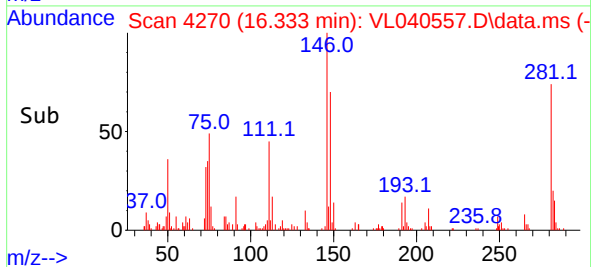
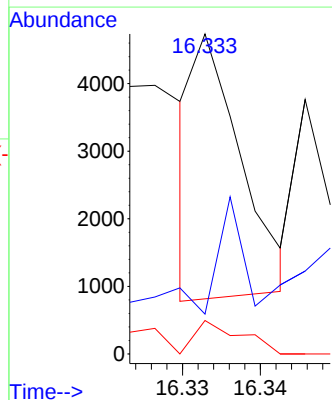
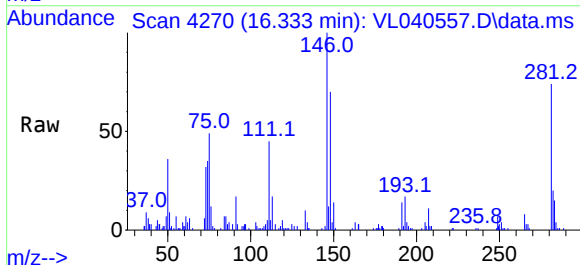
Instrument :
MSVOA_L
ClientSampleId :

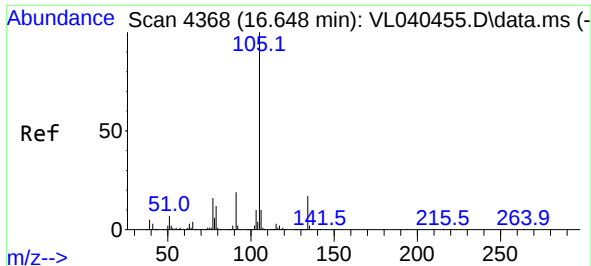
Tgt Ion:119 Resp: 53491
Ion Ratio Lower Upper
119 100
91 0.0 66.1 99.1#
134 0.0 15.7 23.5#



#66
Benzyl Chloride
Concen: 0.072 ppbv
RT: 16.333 min Scan# 4270
Delta R.T. -0.003 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 91 Resp: 1644
Ion Ratio Lower Upper
91 100
126 341.1 15.4 23.2#
128 27.3 4.5 6.7#





#67

sec-Butylbenzene

Concen: 0.469 ppbv

RT: 16.629 min Scan# 41

Delta R.T. -0.019 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

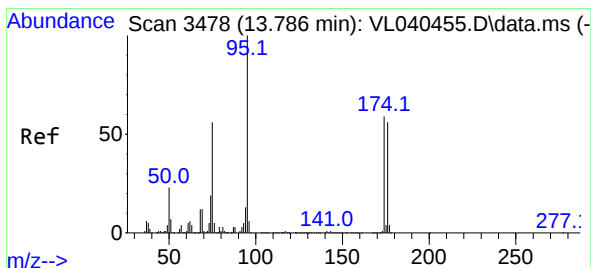
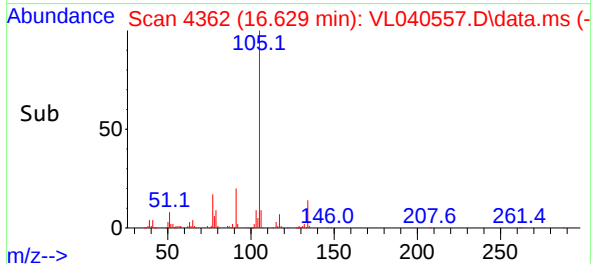
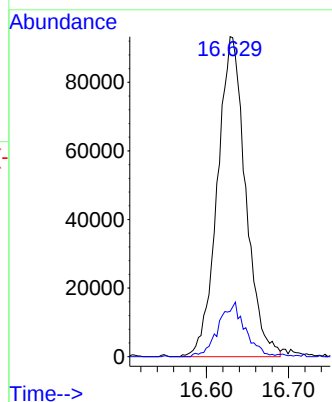
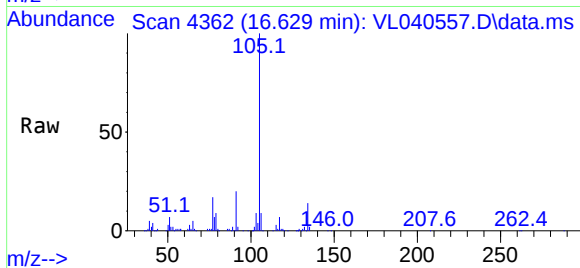
ClientSampleId :

Tgt Ion:105 Resp: 223254

Ion Ratio Lower Upper

105 100

134 16.5 14.4 21.6



#68

1-Bromo-4-Fluorobenzene

Concen: 10.394 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. -0.016 min

Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

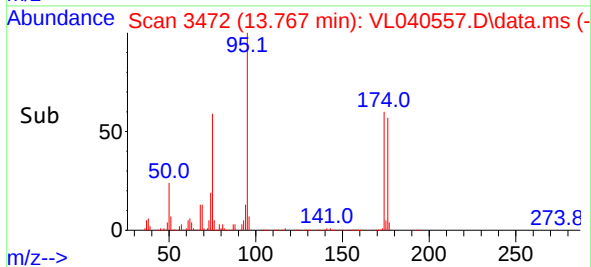
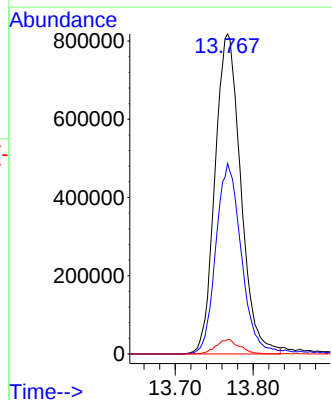
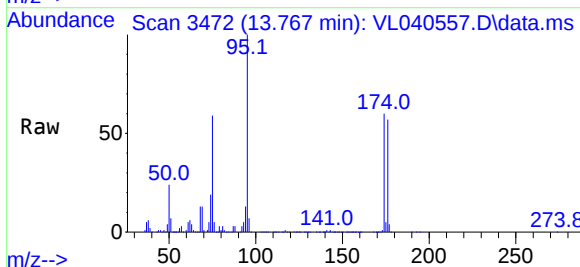
Tgt Ion: 95 Resp: 1882664

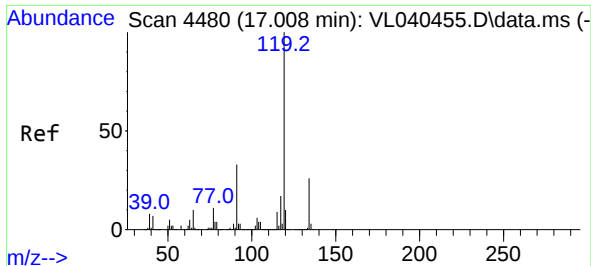
Ion Ratio Lower Upper

95 100

174 60.3 50.6 75.8

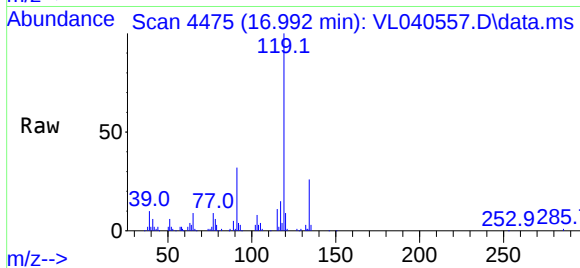
175 4.2 3.7 5.5



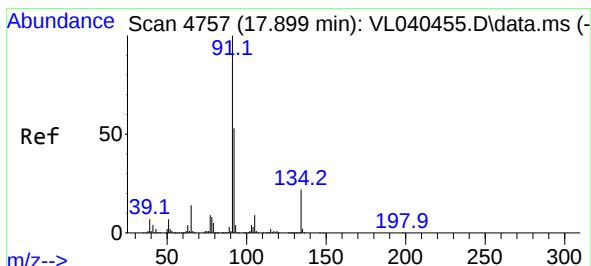
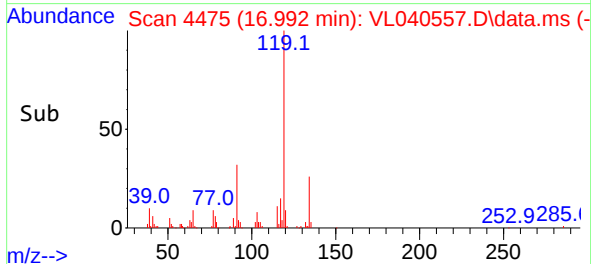
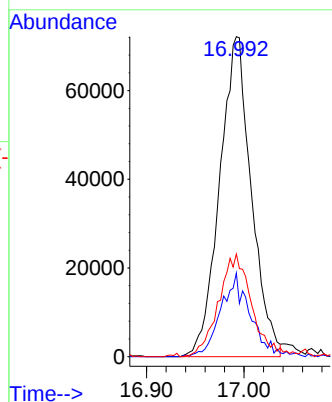


#69
p-Isopropyltoluene
Concen: 0.414 ppbv
RT: 16.992 min Scan# 4480
Delta R.T. -0.013 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Instrument :
MSVOA_L
ClientSampleId :

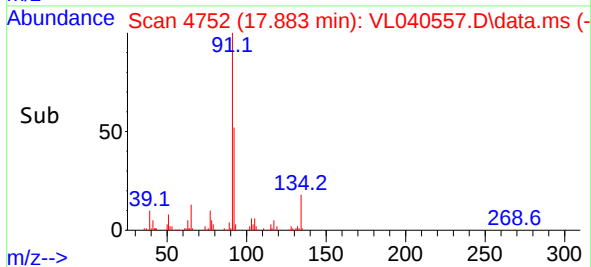
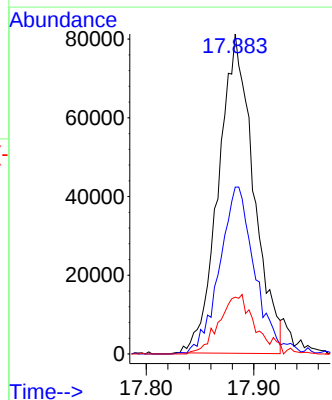
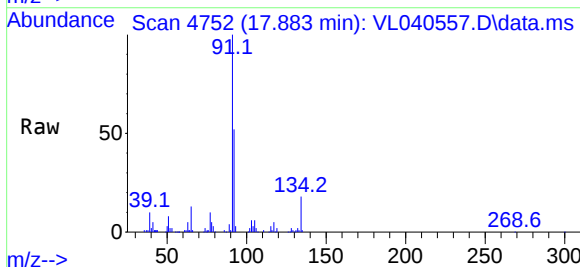


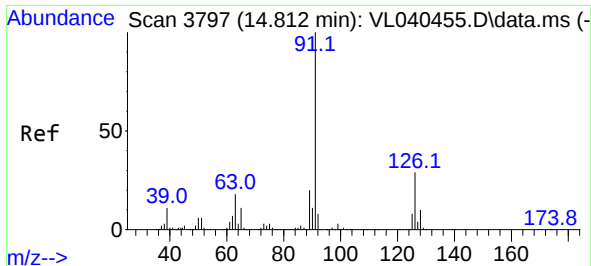
Tgt Ion:119 Resp: 162880
Ion Ratio Lower Upper
119 100
134 24.7 20.5 30.7
91 34.7 23.8 35.8



#70
n-Butylbenzene
Concen: 0.420 ppbv
RT: 17.883 min Scan# 4752
Delta R.T. -0.013 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion: 91 Resp: 184057
Ion Ratio Lower Upper
91 100
92 53.2 43.4 65.0
134 19.5 18.1 27.1

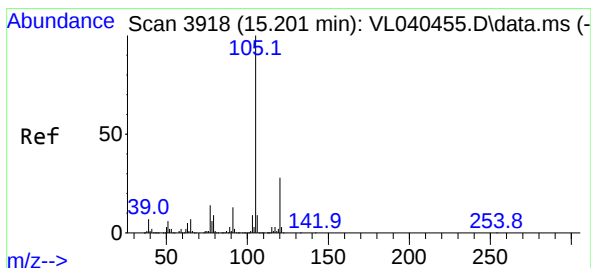
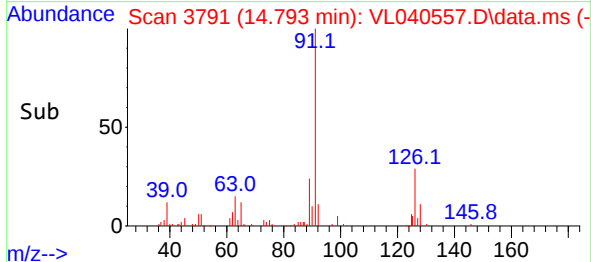
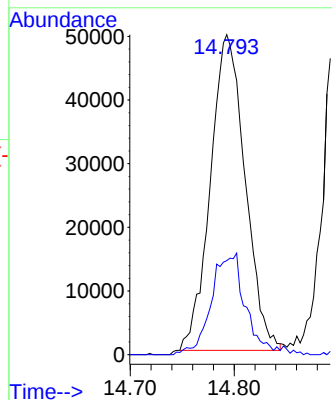
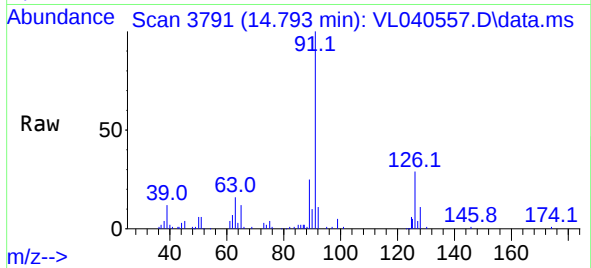




#71
2-Chlorotoluene
Concen: 0.408 ppbv
RT: 14.793 min Scan# 311
Delta R.T. -0.019 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

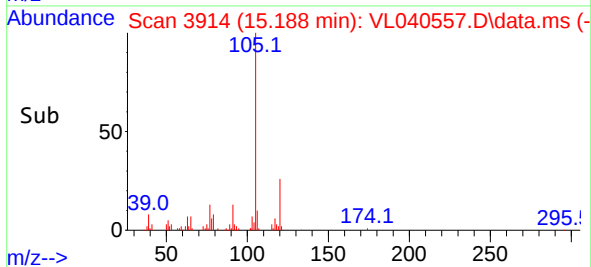
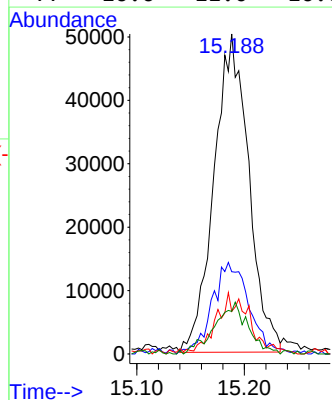
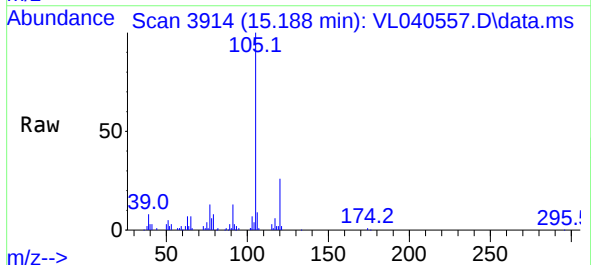
Instrument :
MSVOA_L
ClientSampleId :

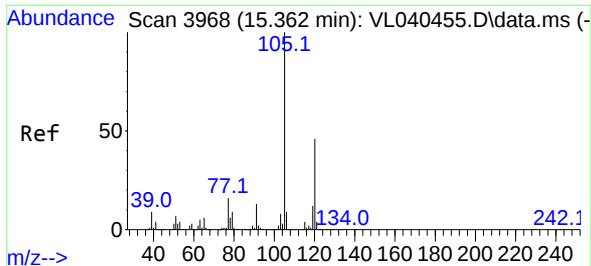
Tgt Ion: 91 Resp: 115210
Ion Ratio Lower Upper
91 100
126 31.9 12.4 49.8



#72
4-Ethyltoluene
Concen: 0.393 ppbv
RT: 15.188 min Scan# 3914
Delta R.T. -0.016 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion:105 Resp: 112392
Ion Ratio Lower Upper
105 100
120 32.2 24.6 37.0
91 19.0 10.7 16.1#
77 16.6 11.0 16.6#

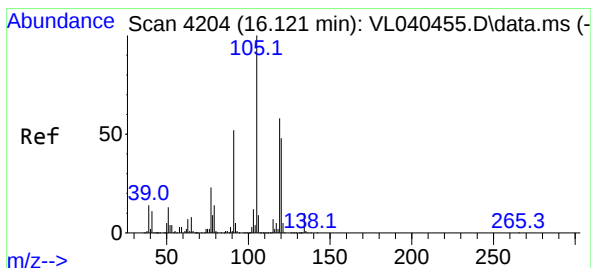
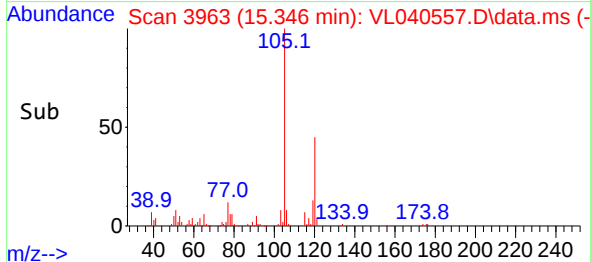
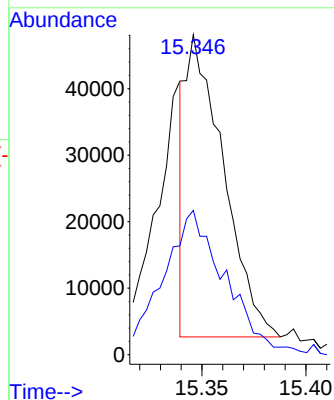
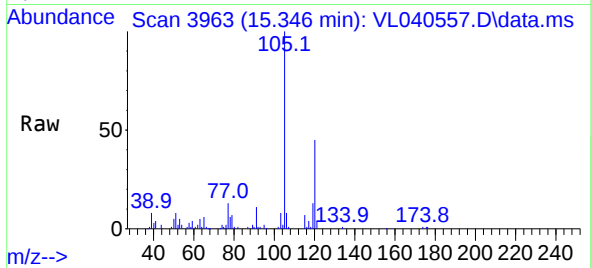




#73
1,3,5-Trimethylbenzene
Concen: 0.227 ppbv
RT: 15.346 min Scan# 3963
Delta R.T. -0.016 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

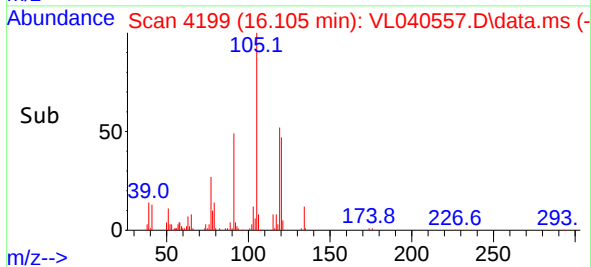
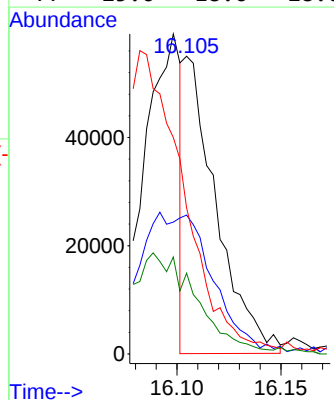
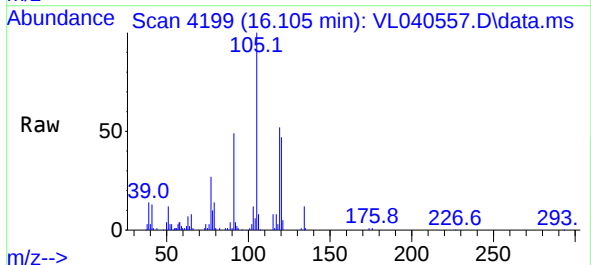
Instrument :
MSVOA_L
ClientSampleId :

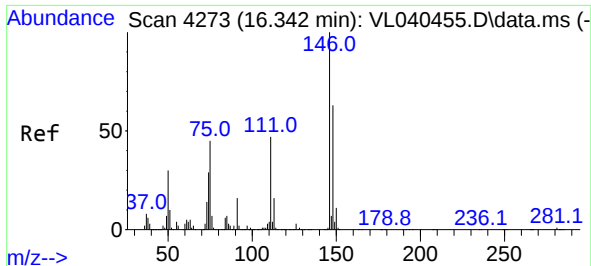
Tgt Ion:105 Resp: 57379
Ion Ratio Lower Upper
105 100
120 44.7 38.2 57.2



#74
1,2,4-Trimethylbenzene
Concen: 0.201 ppbv
RT: 16.105 min Scan# 4199
Delta R.T. -0.013 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion:105 Resp: 59226
Ion Ratio Lower Upper
105 100
120 45.5 40.3 60.5
91 48.8 46.8 70.2
77 25.6 18.6 28.0

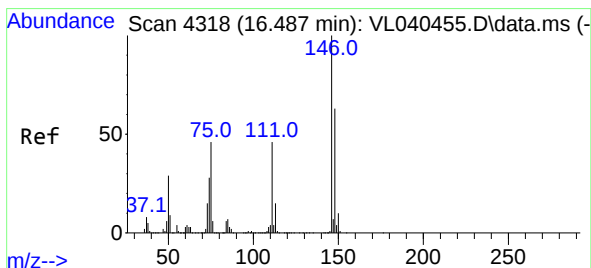
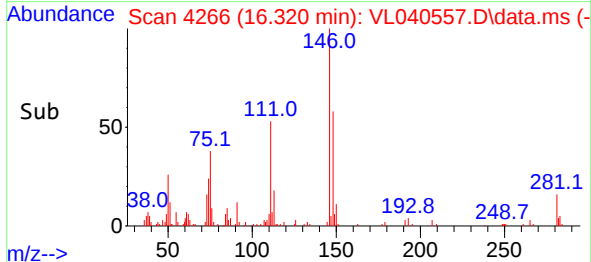
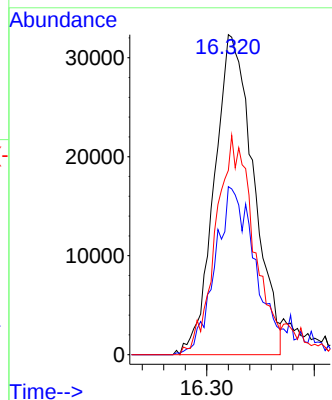
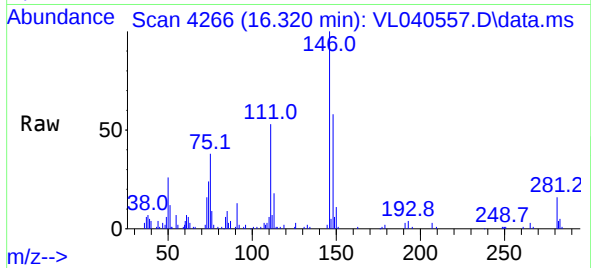




#75
1,3-Dichlorobenzene
Concen: 0.459 ppbv
RT: 16.320 min Scan# 411
Delta R.T. -0.022 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

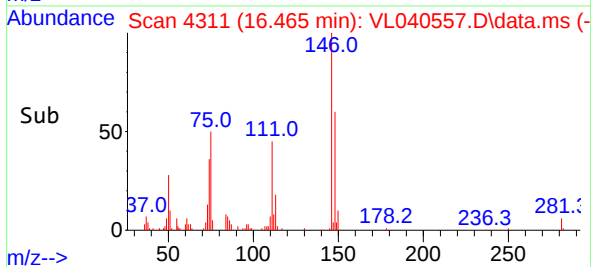
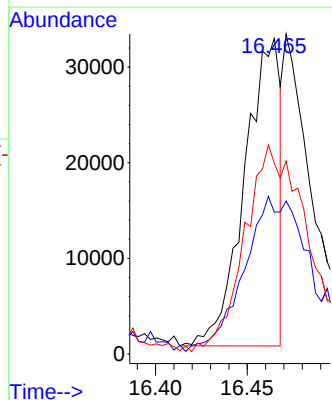
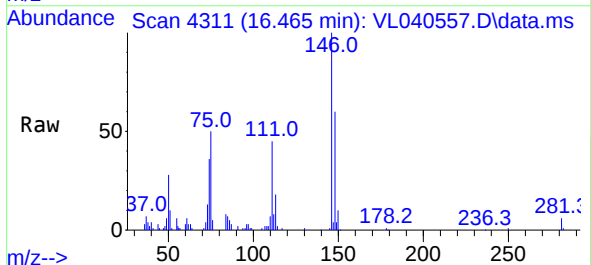
Instrument :
MSVOA_L
ClientSampleId :

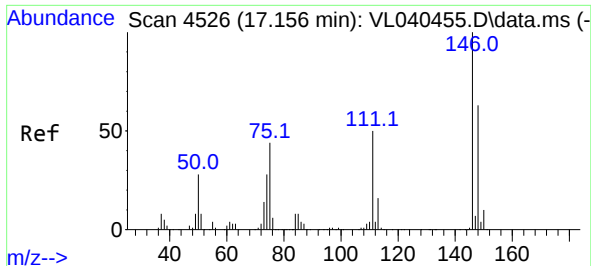
Tgt Ion:146 Resp: 81778
Ion Ratio Lower Upper
146 100
111 58.8 23.6 71.0
148 71.9 32.2 96.6



#76
1,4-Dichlorobenzene
Concen: 0.248 ppbv
RT: 16.465 min Scan# 4311
Delta R.T. -0.022 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

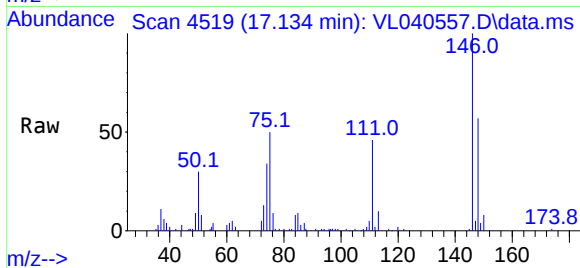
Tgt Ion:146 Resp: 43366
Ion Ratio Lower Upper
146 100
111 103.6 22.8 68.3#
148 132.4 32.6 97.8#



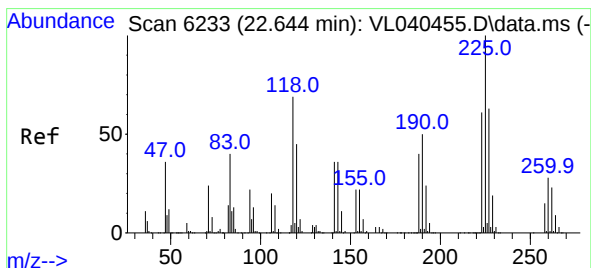
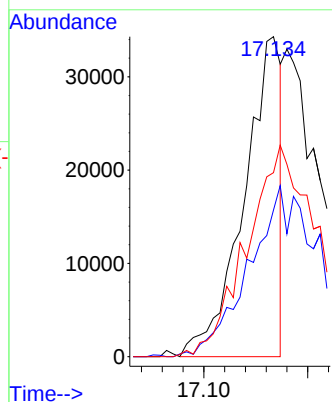
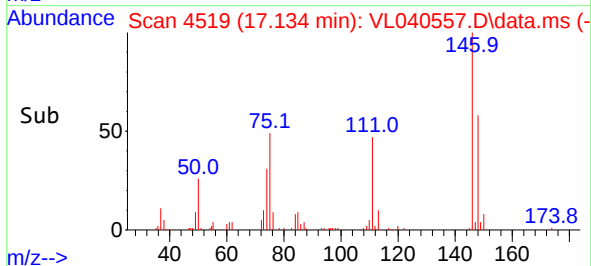


#77
1,2-Dichlorobenzene
Concen: 0.250 ppbv
RT: 17.134 min Scan# 41
Delta R.T. -0.019 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Instrument :
MSVOA_L
ClientSampleId :

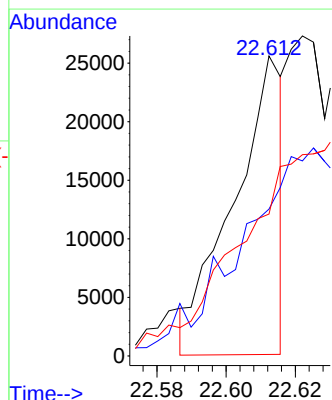
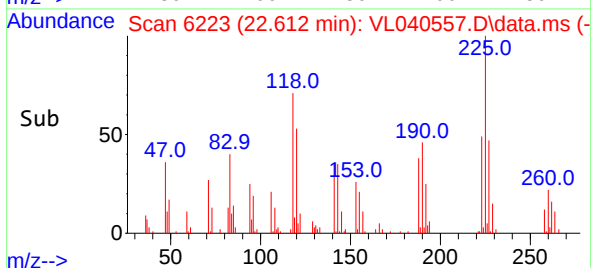
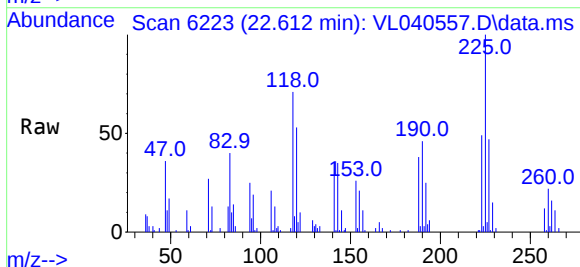


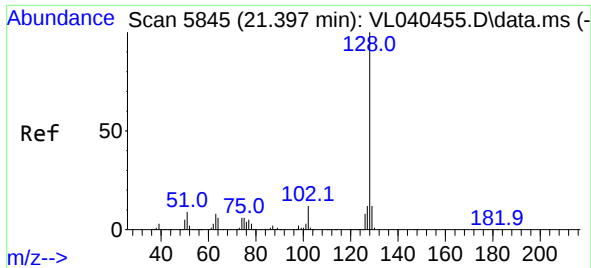
Tgt Ion:146 Resp: 42582
Ion Ratio Lower Upper
146 100
111 0.0 24.3 72.8#
148 0.0 32.1 96.3#



#78
Hexachloro-1,3-Butadiene
Concen: 0.157 ppbv
RT: 22.612 min Scan# 6223
Delta R.T. -0.035 min
Lab File: VL040557.D
Acq: 27 Jul 2023 2:06

Tgt Ion:225 Resp: 25128
Ion Ratio Lower Upper
225 100
223 0.0 50.3 75.5#
227 0.0 51.0 76.6#





#79

Naphthalene

Concen: 0.096 ppbv

RT: 21.371 min Scan# 5837

Delta R.T. -0.023 min

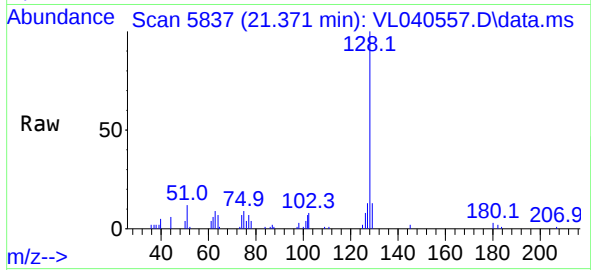
Lab File: VL040557.D

Acq: 27 Jul 2023 2:06

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:128 Resp: 23797

Ion Ratio Lower Upper

128 100

127 13.0 10.7 16.1

129 13.8 9.2 13.8

