

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
 Data File : VL040520.D
 Acq On : 10 Jul 2023 23:59
 Operator : SY/MD
 Sample : 03535-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Jul 11 02:11:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

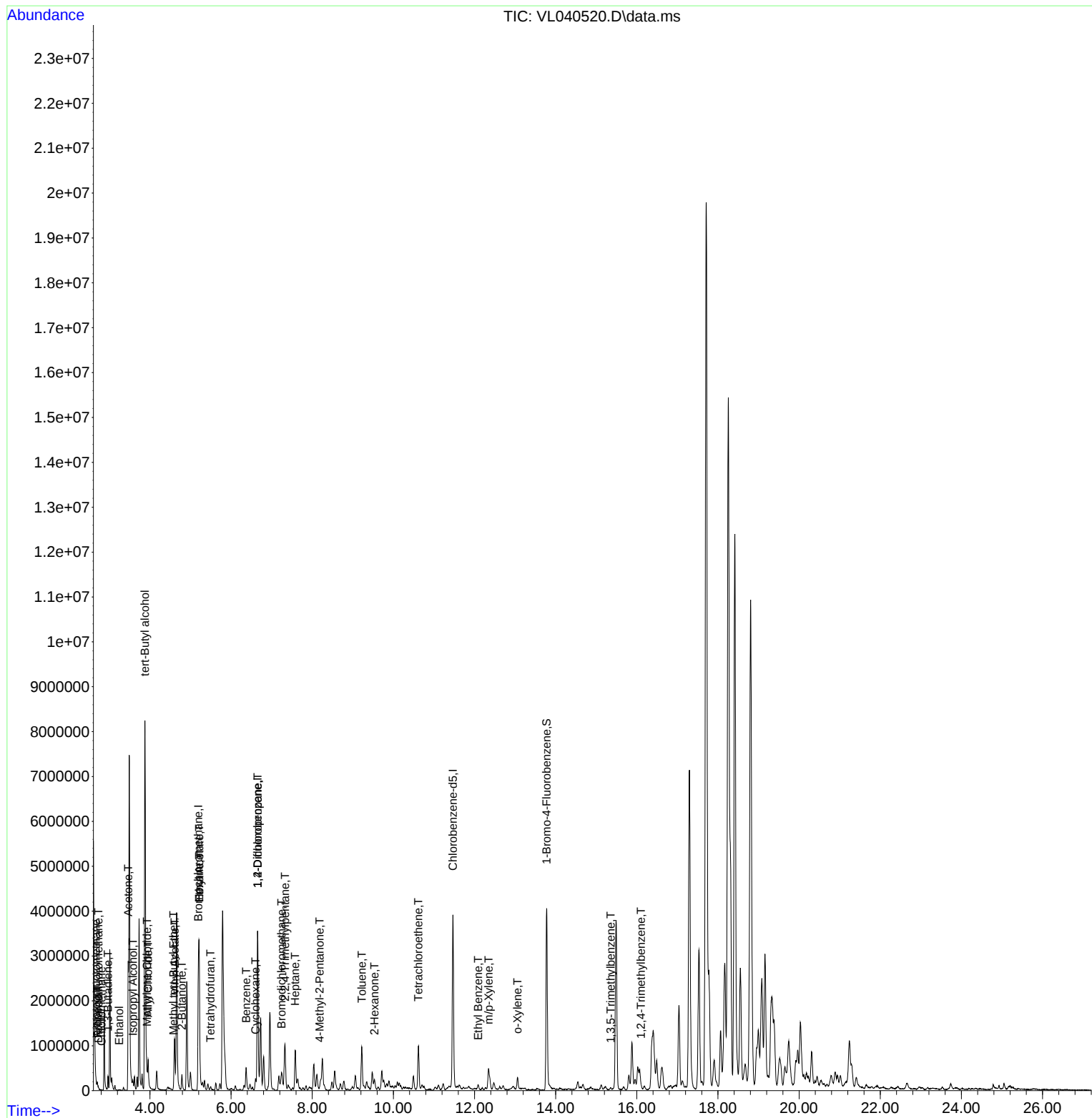
Internal Standards							
1)	Bromochloromethane	5.192	49	998500	10.000	ppbv	-0.01
33)	1,4-Difluorobenzene	6.652	114	2548328	10.000	ppbv	-0.01
55)	Chlorobenzene-d5	11.468	117	2457388	10.000	ppbv	0.00
System Monitoring Compounds							
68)	1-Bromo-4-Fluorobenzene	13.777	95	1979618	10.179	ppbv	0.00
Spiked Amount 10.000		Range	65 - 135	Recovery	=	101.800%	
Target Compounds							Qvalue
2)	Dichlorodifluoromethane	2.732	85	26073	0.131	ppbv	99
3)	Chlorodifluoromethane	2.674	51	20533	0.130	ppbv	96
4)	Chloromethane	2.809	50	2555	0.041	ppbv	90
9)	Propene	2.706	41	34437	0.636	ppbv	94
10)	Heptane	7.581	43	355123	2.968	ppbv	99
13)	Ethanol	3.243	45	7539	0.640	ppbv #	37
15)	Acetone	3.465	43	2384524	20.747	ppbv #	84
16)	1,3-Butadiene	2.967	39	74591	1.286	ppbv #	16
17)	tert-Butyl alcohol	3.877	59	7475927	62.887	ppbv	98
19)	Isopropyl Alcohol	3.581	45	146476	2.220	ppbv #	96
20)	Methylene Chloride	3.932	84	20919	0.428	ppbv #	80
21)	Allyl Chloride	3.951	41	107918	1.644	ppbv #	44
23)	Vinyl Acetate	4.610	43	509065	4.649	ppbv #	1
25)	Ethyl Acetate	5.214	43	759322	3.470	ppbv #	81
26)	Hexane	5.214	57	1040478	10.236	ppbv #	41
28)	Methyl tert-Butyl Ether	4.584	73	27849	0.340	ppbv #	52
30)	Cyclohexane	6.603	84	76978	0.910	ppbv	88
34)	2-Butanone	4.787	43	349013	2.772	ppbv	99
36)	Benzene	6.372	78	396161	1.932	ppbv	99
39)	1,2-Dichloropropane	6.652	63	660985	8.374	ppbv #	27
41)	Tetrahydrofuran	5.494	42	10767	0.147	ppbv #	37
42)	Bromodichloromethane	7.246	83	15136	0.090	ppbv #	25
44)	2,2,4-Trimethylpentane	7.330	57	712225	2.159	ppbv #	67
50)	4-Methyl-2-Pentanone	8.182	43	13609	0.074	ppbv #	37
51)	2-Hexanone	9.536	43	42378	0.328	ppbv #	28
52)	Tetrachloroethene	10.619	164	214738	3.234	ppbv	97
53)	Toluene	9.224	91	588619	2.643	ppbv	99
58)	Ethyl Benzene	12.092	91	82967	0.269	ppbv	98
59)	m/p-Xylene	12.346	91	466822	1.696	ppbv	100
60)	o-Xylene	13.057	91	118947	0.454	ppbv #	57
73)	1,3,5-Trimethylbenzene	15.359	105	31463	0.116	ppbv	88
74)	1,2,4-Trimethylbenzene	16.101	105	37116	0.118	ppbv #	58

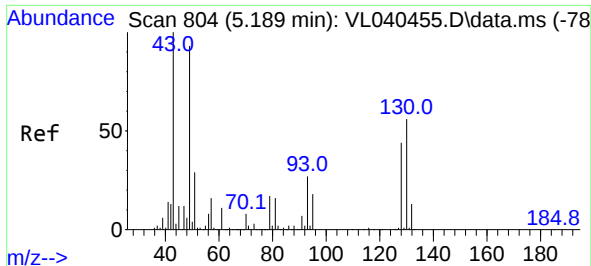
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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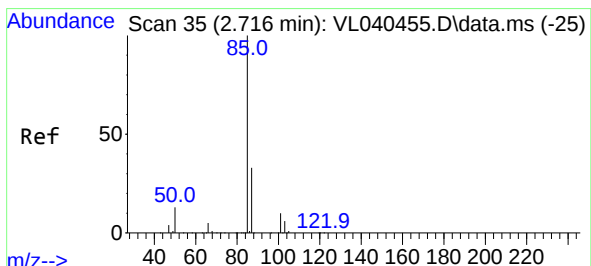
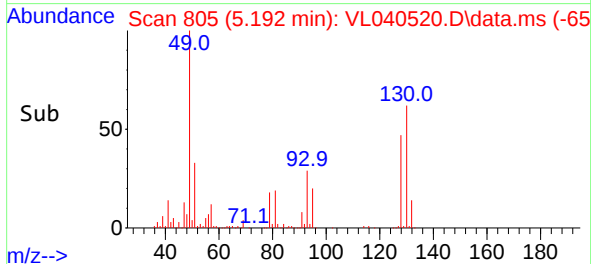
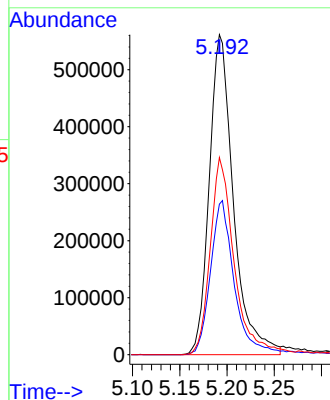
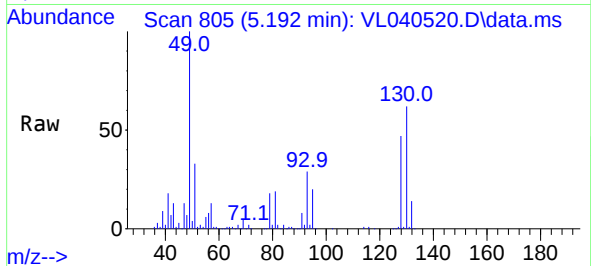




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

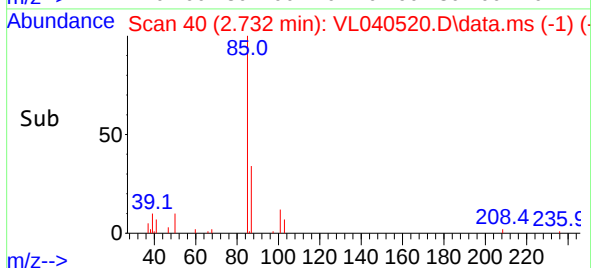
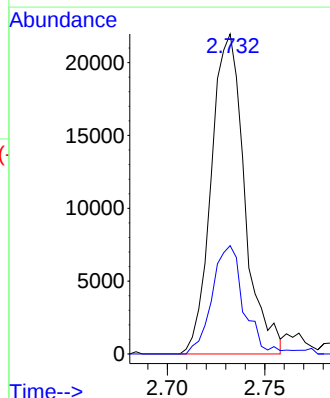
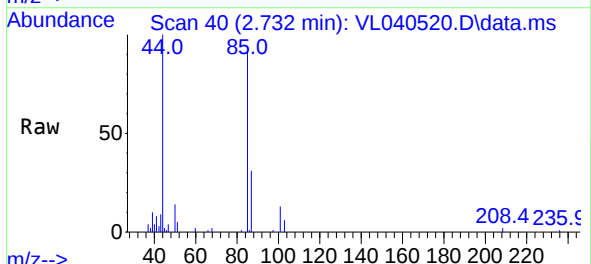
Instrument :
MSVOA_L
ClientSampleId :
SV1

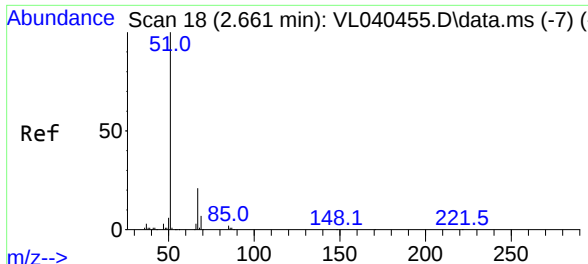
Tgt Ion: 49 Resp: 998500
Ion Ratio Lower Upper
49 100
128 49.4 25.1 75.4
130 62.3 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.131 ppbv
RT: 2.732 min Scan# 40
Delta R.T. -0.006 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 85 Resp: 26073
Ion Ratio Lower Upper
85 100
87 33.8 26.8 40.2

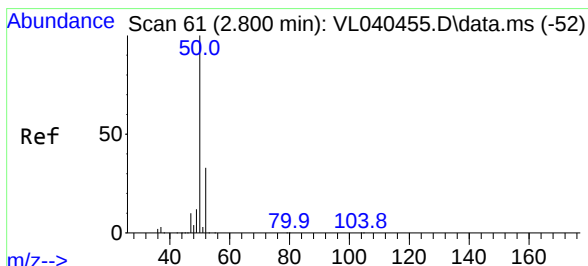
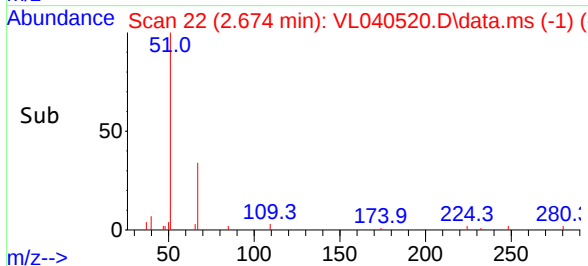
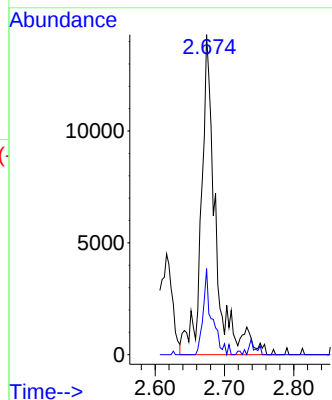
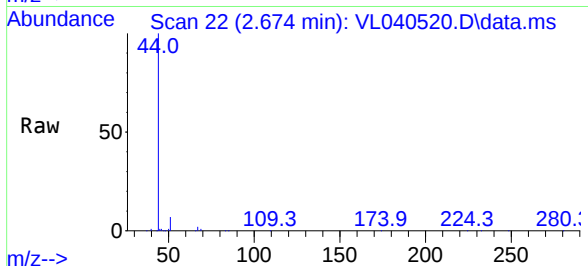




#3
Chlorodifluoromethane
Concen: 0.130 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

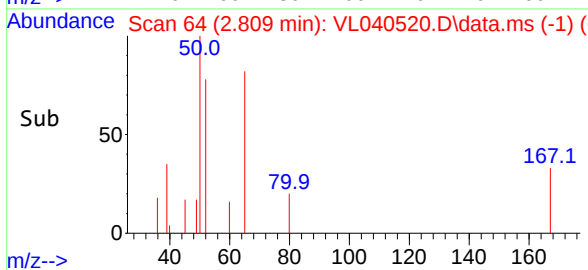
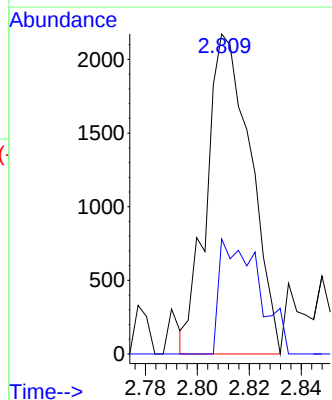
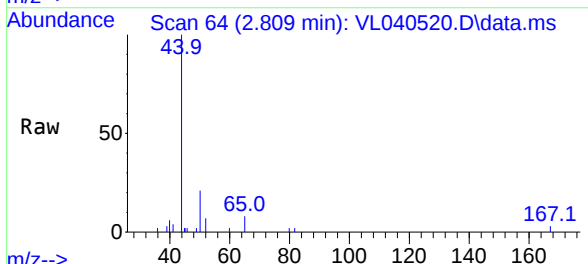
Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 20533
Ion Ratio Lower Upper
51 100
67 16.6 14.6 21.8

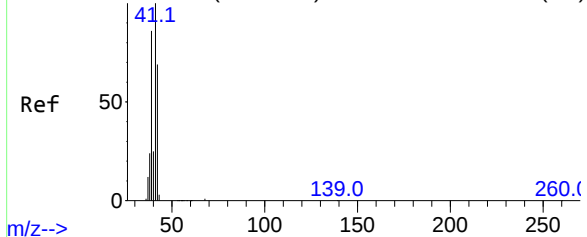


#4
Chloromethane
Concen: 0.041 ppbv
RT: 2.809 min Scan# 64
Delta R.T. -0.013 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 50 Resp: 2555
Ion Ratio Lower Upper
50 100
52 35.9 24.4 36.6



Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)



#9

Propene

Concen: 0.636 ppbv

RT: 2.706 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL040520.D

Acq: 10 Jul 2023 23:59

Instrument :

MSVOA_L

ClientSampleId :

SV1

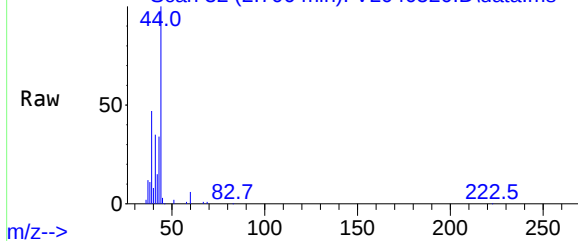
Tgt Ion: 41 Resp: 34437

Ion Ratio Lower Upper

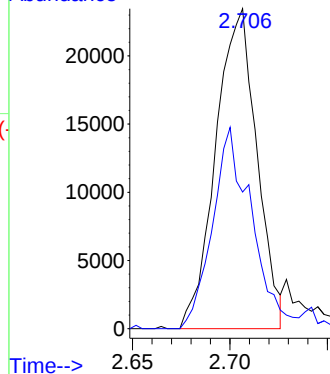
41 100

42 63.8 55.0 82.6

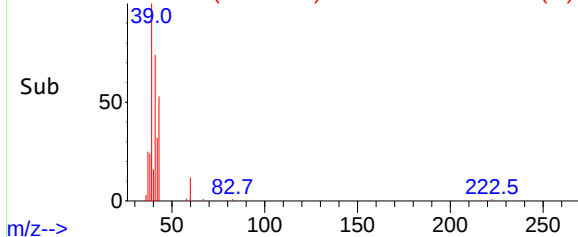
Abundance Scan 32 (2.706 min): VL040520.D\data.ms



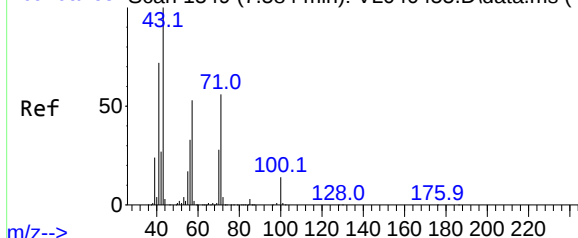
Abundance



Abundance Scan 32 (2.706 min): VL040520.D\data.ms (-1)



Abundance Scan 1549 (7.584 min): VL040455.D\data.ms (-1)



#10

Heptane

Concen: 2.968 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. -0.010 min

Lab File: VL040520.D

Acq: 10 Jul 2023 23:59

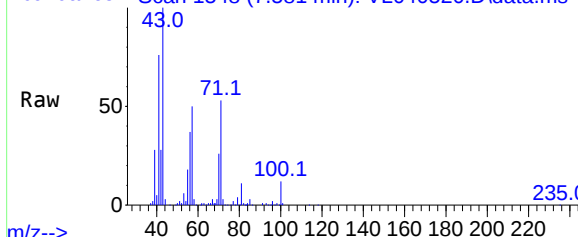
Tgt Ion: 43 Resp: 355123

Ion Ratio Lower Upper

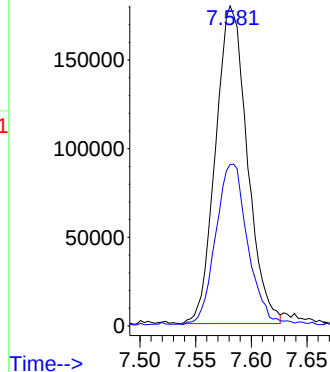
43 100

57 52.4 42.5 63.7

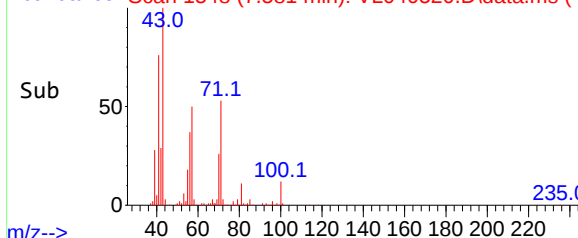
Abundance Scan 1548 (7.581 min): VL040520.D\data.ms

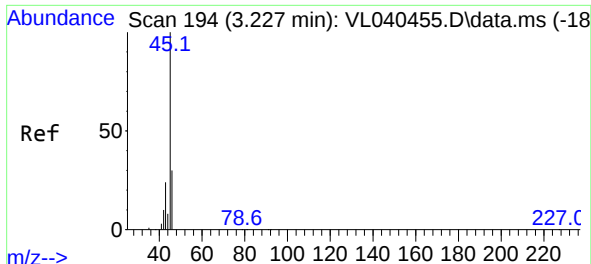


Abundance



Abundance Scan 1548 (7.581 min): VL040520.D\data.ms (-1)

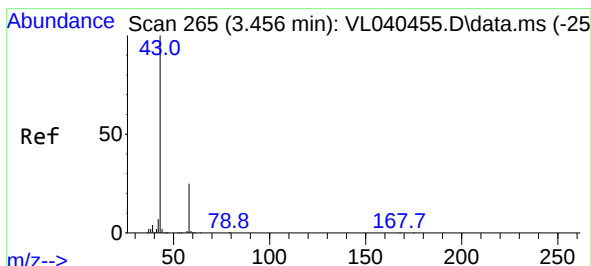
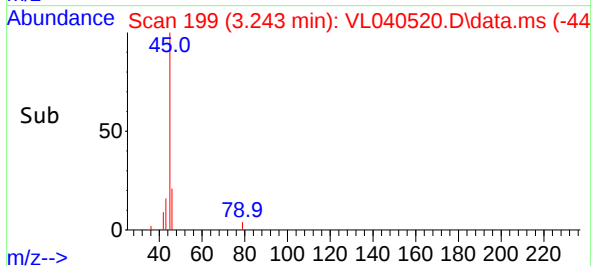
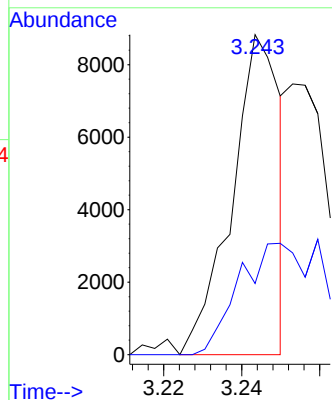
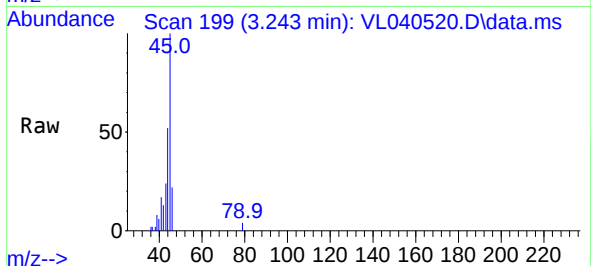




#13
Ethanol
Concen: 0.640 ppbv
RT: 3.243 min Scan# 194
Delta R.T. -0.003 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

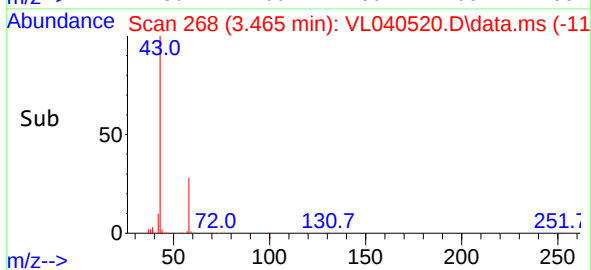
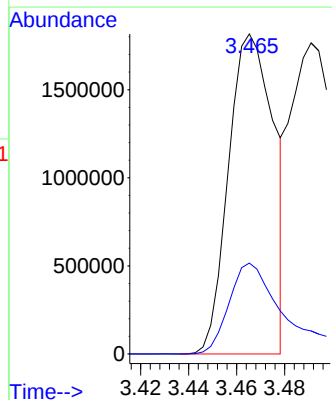
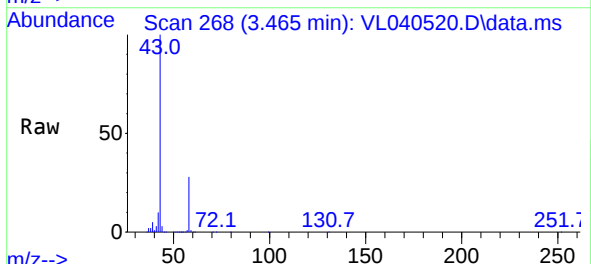
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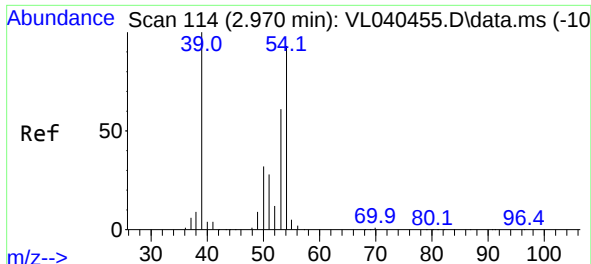
Tgt Ion: 45 Resp: 7539
Ion Ratio Lower Upper
45 100
46 0.0 15.3 61.1#



#15
Acetone
Concen: 20.747 ppbv
RT: 3.465 min Scan# 268
Delta R.T. -0.010 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 43 Resp: 2384524
Ion Ratio Lower Upper
43 100
58 36.9 22.9 34.3#

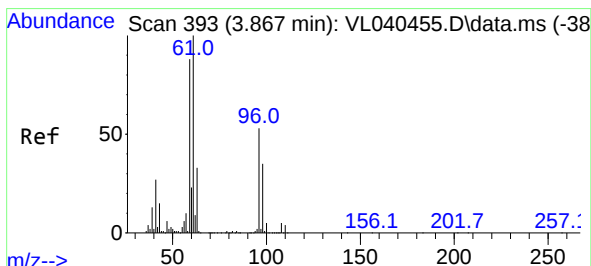
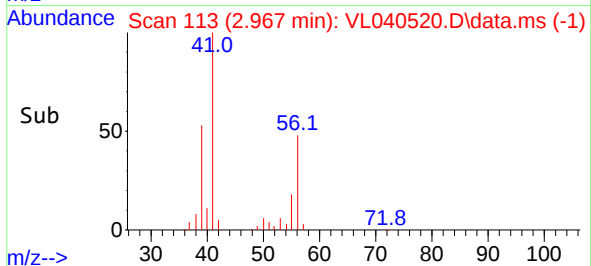
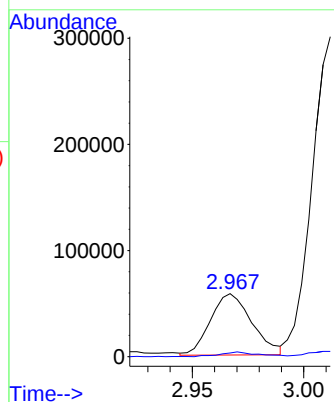
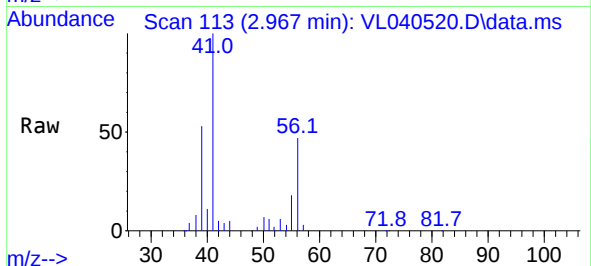




#16
1,3-Butadiene
Concen: 1.286 ppbv
RT: 2.967 min Scan# 114
Delta R.T. -0.026 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

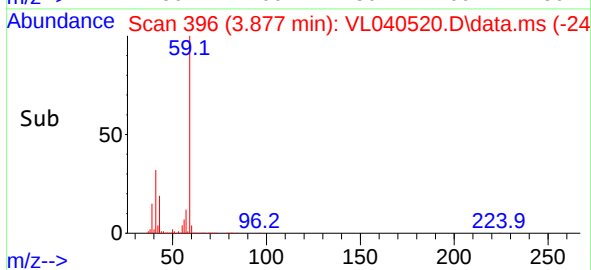
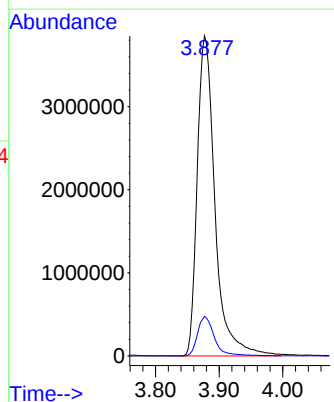
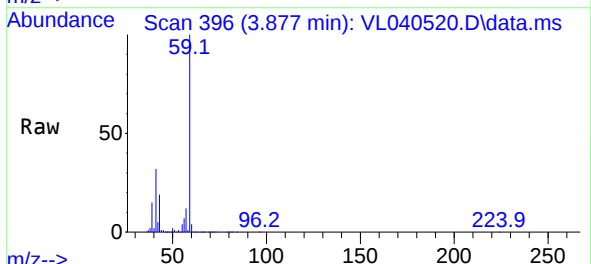
Instrument :
MSVOA_L
ClientSampleId :
SV1

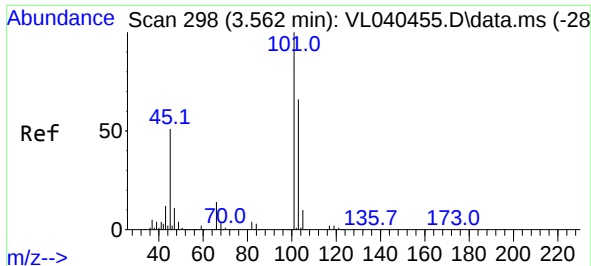
Tgt Ion: 39 Resp: 74591
Ion Ratio Lower Upper
39 100
54 7.5 66.6 100.0#



#17
tert-Butyl alcohol
Concen: 62.887 ppbv
RT: 3.877 min Scan# 396
Delta R.T. -0.006 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 59 Resp: 7475927
Ion Ratio Lower Upper
59 100
57 11.7 8.7 13.1

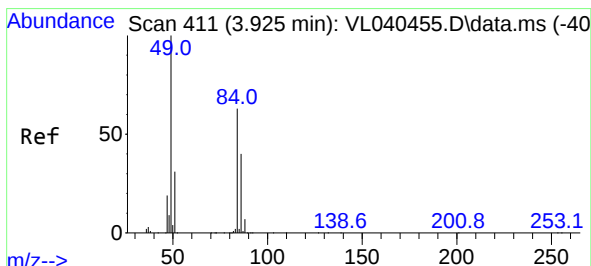
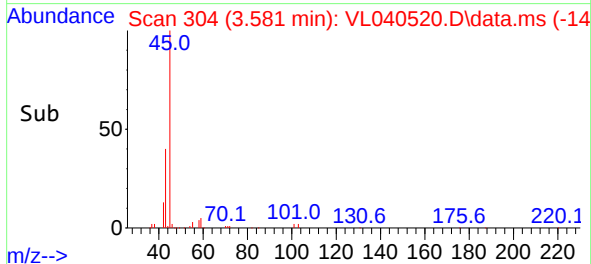
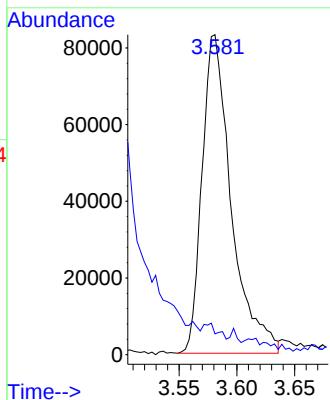
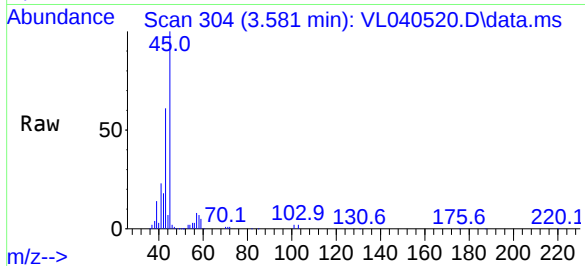




#19
Isopropyl Alcohol
Concen: 2.220 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.000 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

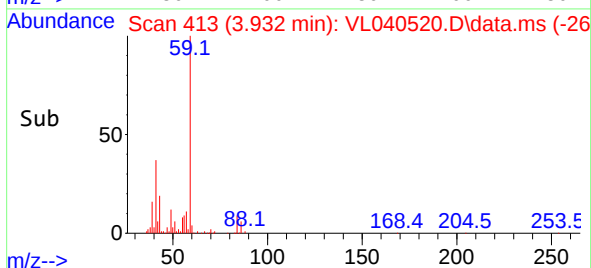
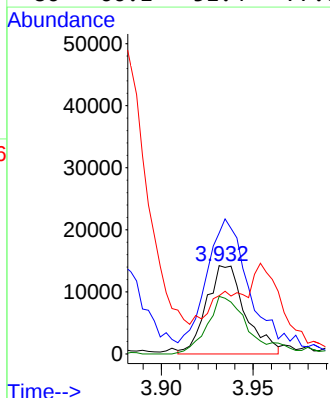
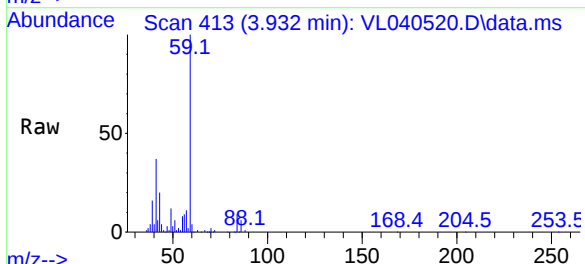
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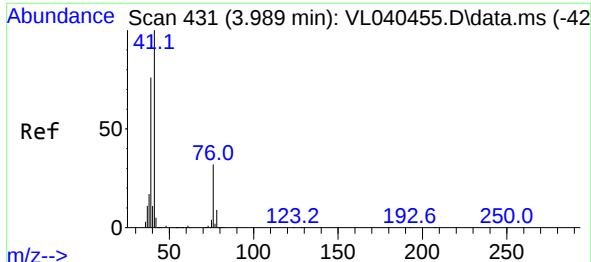
Tgt Ion: 45 Resp: 146476
Ion Ratio Lower Upper
45 100
58 0.0 1.1 1.7#



#20
Methylene Chloride
Concen: 0.428 ppbv
RT: 3.932 min Scan# 413
Delta R.T. -0.010 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 84 Resp: 20919
Ion Ratio Lower Upper
84 100
49 129.5 123.4 185.2
51 17.0 38.3 57.5#
86 66.1 51.4 77.0

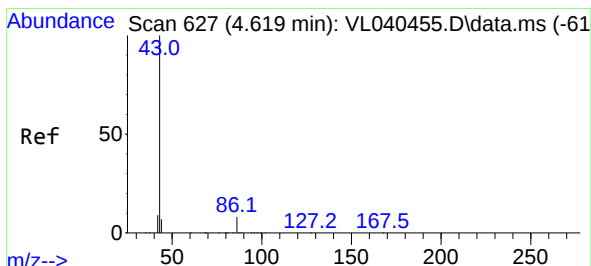
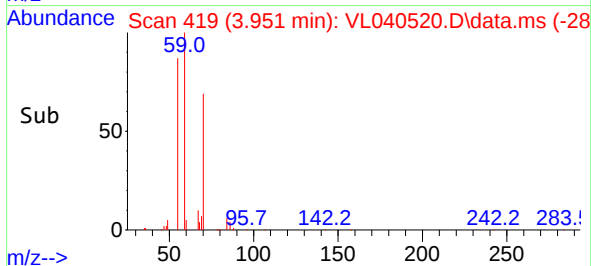
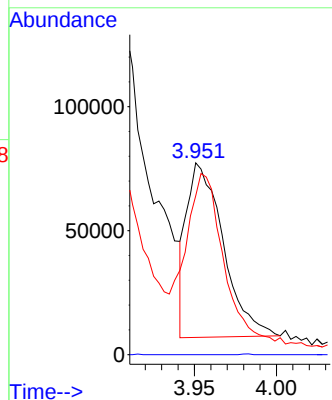
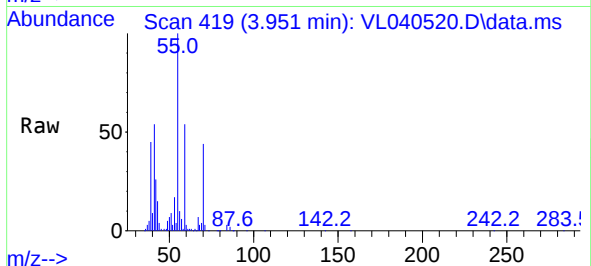




#21
Allyl Chloride
Concen: 1.644 ppbv
RT: 3.951 min Scan# 41
Delta R.T. -0.055 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

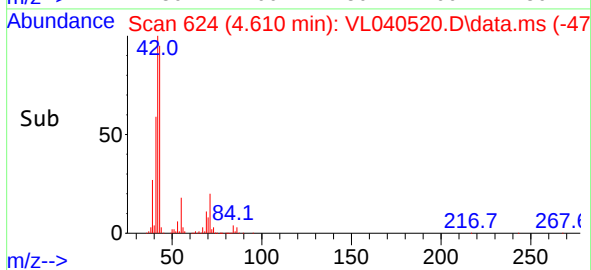
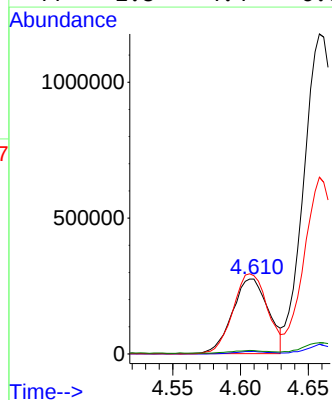
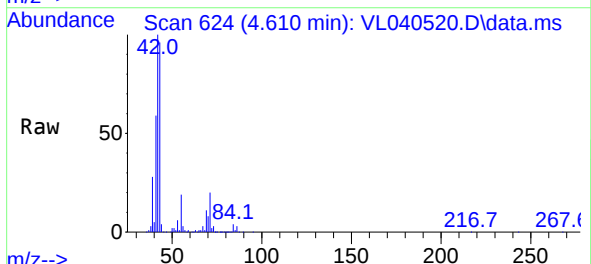
Instrument :
MSVOA_L
ClientSampleId :
SV1

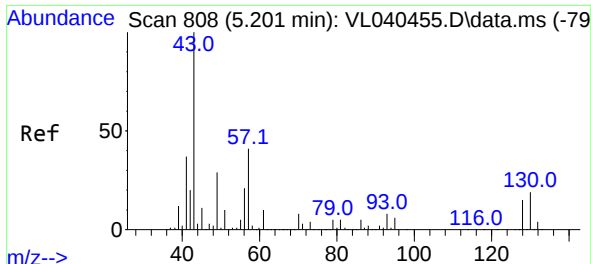
Tgt Ion: 41 Resp: 107918
Ion Ratio Lower Upper
41 100
76 0.1 24.8 37.2#
39 123.4 60.6 91.0#



#23
Vinyl Acetate
Concen: 4.649 ppbv
RT: 4.610 min Scan# 624
Delta R.T. -0.026 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 43 Resp: 509065
Ion Ratio Lower Upper
43 100
86 3.4 5.6 8.4#
42 104.6 7.4 11.2#
44 2.8 4.4 6.6#

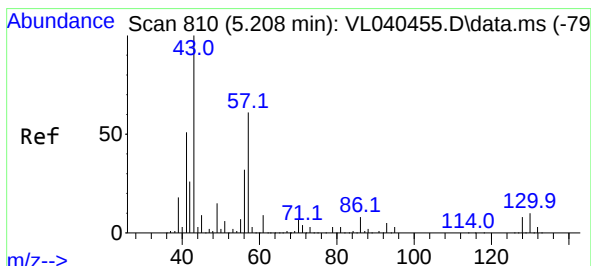
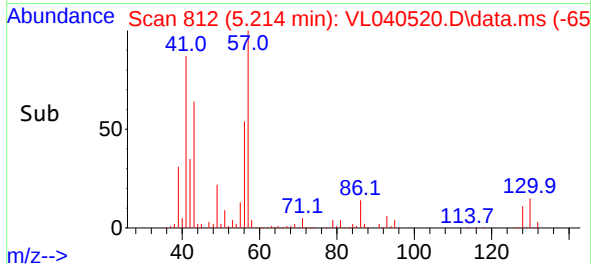
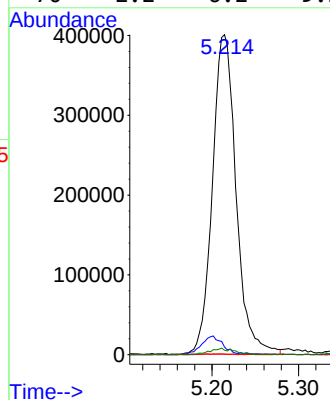
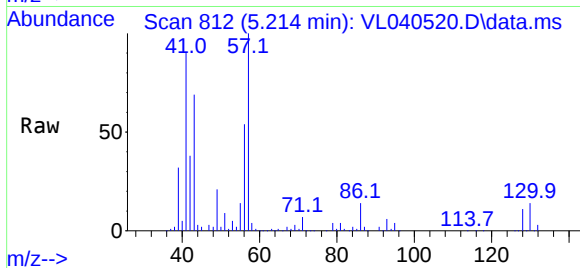




#25
Ethyl Acetate
Concen: 3.470 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

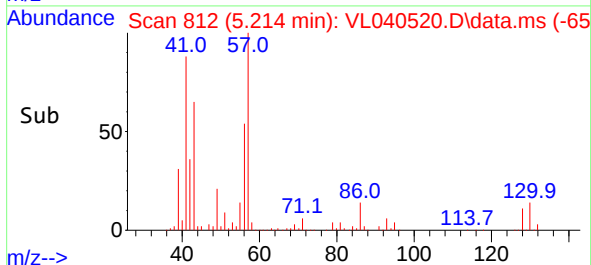
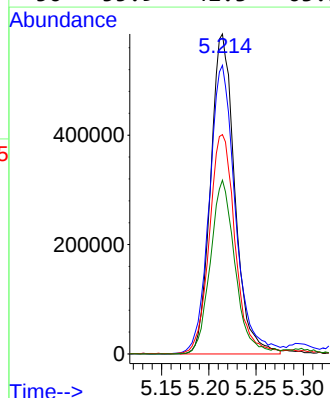
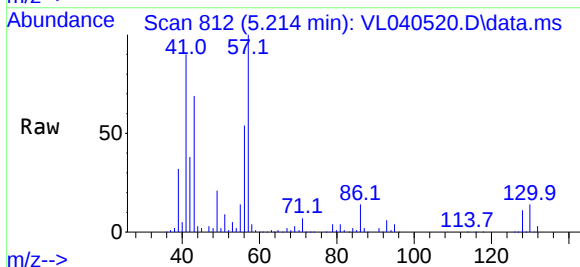
Instrument :
MSVOA_1
ClientSampleId :
SV1

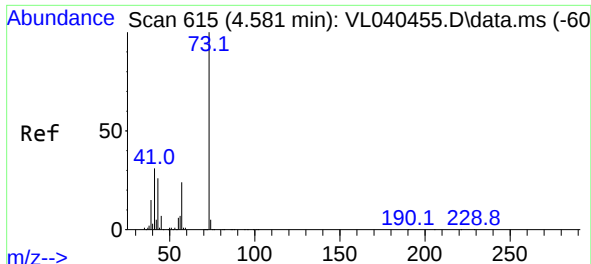
Tgt Ion: 43 Resp: 759322
Ion Ratio Lower Upper
43 100
45 5.6 8.2 12.4#
61 0.3 8.3 12.5#
70 2.2 6.2 9.2#



#26
Hexane
Concen: 10.236 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.006 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 57 Resp: 1040478
Ion Ratio Lower Upper
57 100
41 97.7 69.5 104.3
43 74.1 177.1 265.7#
56 55.9 42.3 63.5





#28

Methyl tert-Butyl Ether

Concen: 0.340 ppbv

RT: 4.584 min Scan# 615

Delta R.T. -0.010 min

Lab File: VL040520.D

Acq: 10 Jul 2023 23:59

Instrument :

MSVOA_1

ClientSampleId :

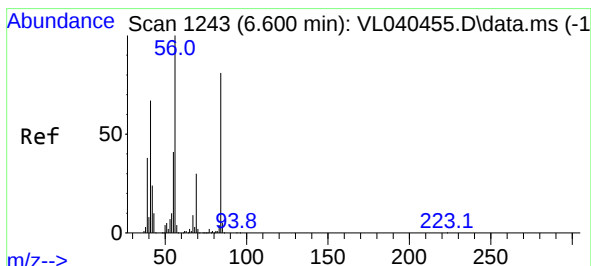
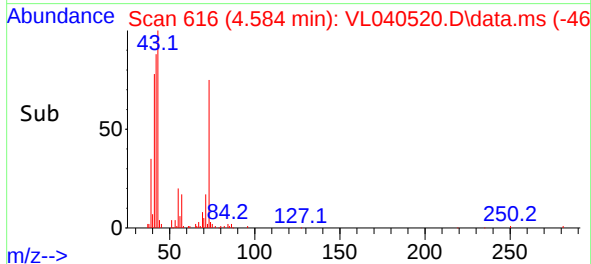
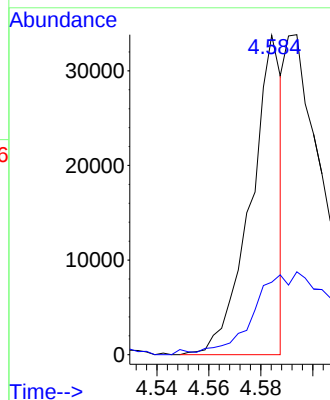
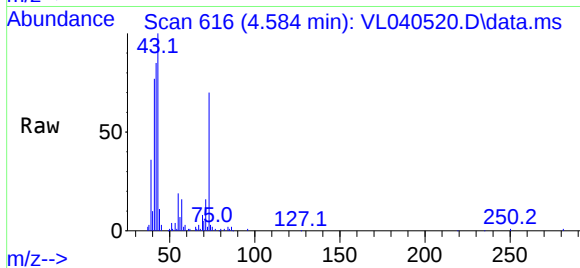
SV1

Tgt Ion: 73 Resp: 27849

Ion Ratio Lower Upper

73 100

57 0.0 18.8 28.2#



#30

Cyclohexane

Concen: 0.910 ppbv

RT: 6.603 min Scan# 1244

Delta R.T. -0.006 min

Lab File: VL040520.D

Acq: 10 Jul 2023 23:59

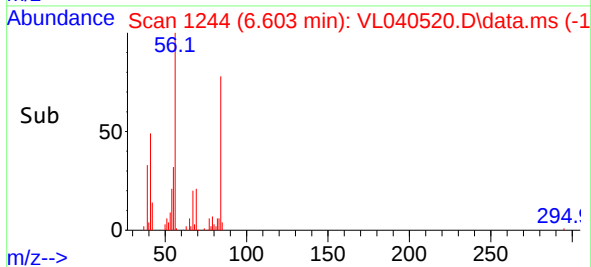
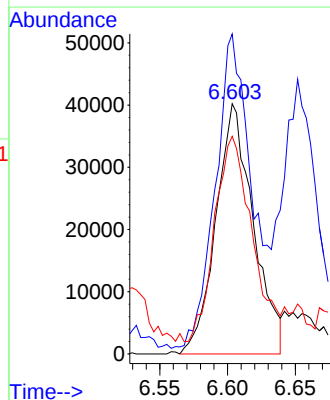
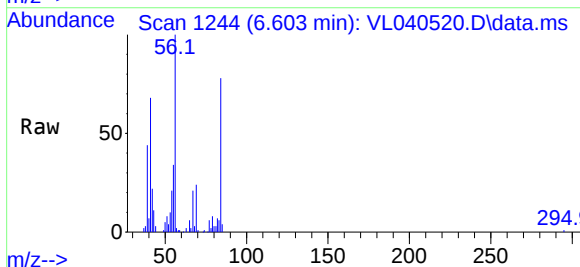
Tgt Ion: 84 Resp: 76978

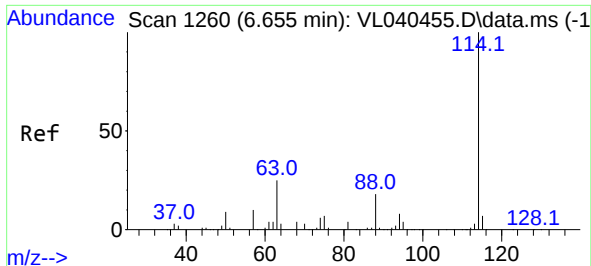
Ion Ratio Lower Upper

84 100

56 119.8 108.7 163.1

41 88.7 64.5 96.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040520.D

Acq: 10 Jul 2023 23:59

Instrument :

MSVOA_L

ClientSampleId :

SV1

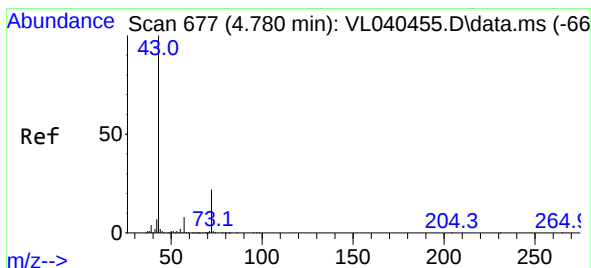
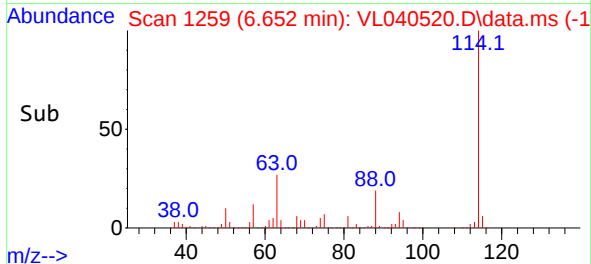
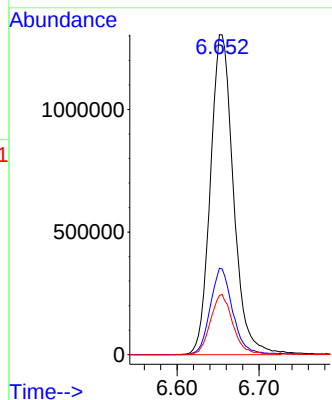
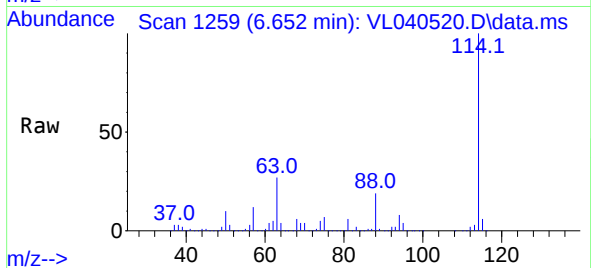
Tgt Ion:114 Resp: 2548328

Ion Ratio Lower Upper

114 100

63 26.8 19.6 29.4

88 18.6 14.2 21.2



#34

2-Butanone

Concen: 2.772 ppbv

RT: 4.787 min Scan# 679

Delta R.T. -0.006 min

Lab File: VL040520.D

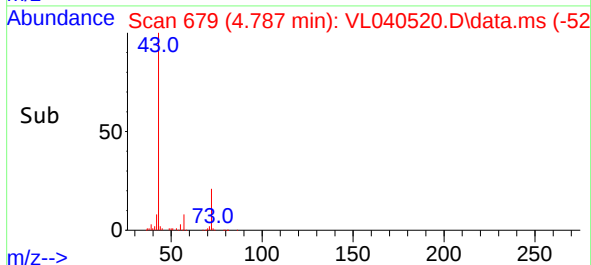
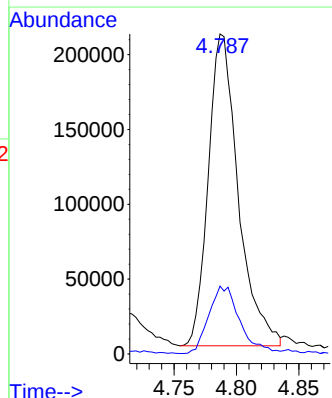
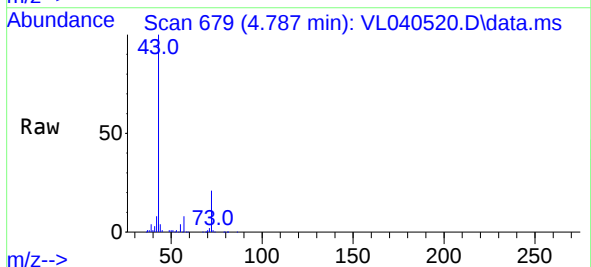
Acq: 10 Jul 2023 23:59

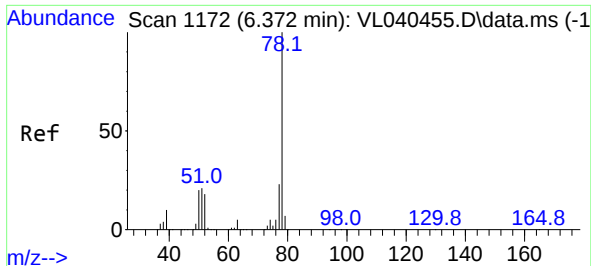
Tgt Ion: 43 Resp: 349013

Ion Ratio Lower Upper

43 100

72 23.3 19.1 28.7

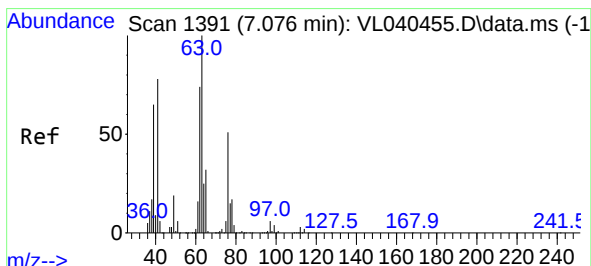
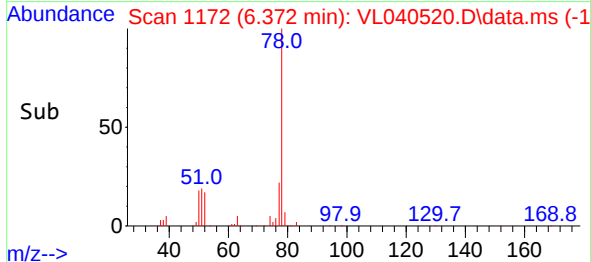
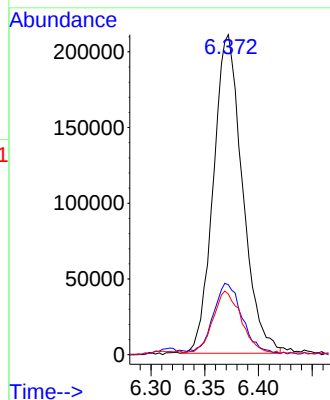
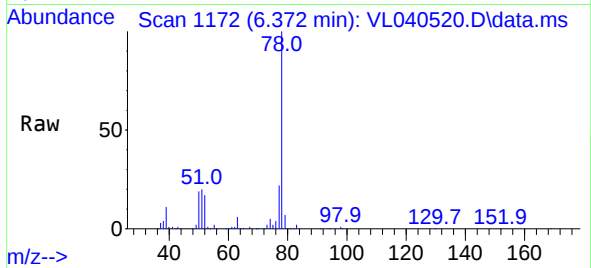




#36
Benzene
Concen: 1.932 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.010 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

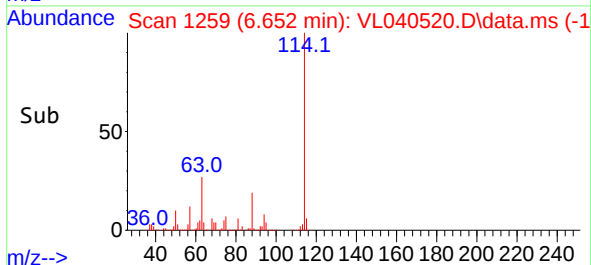
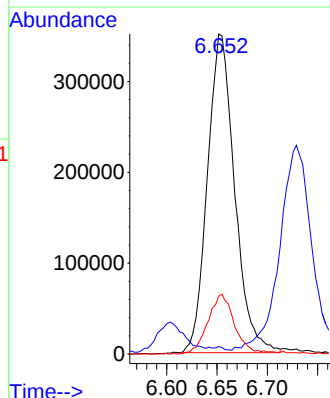
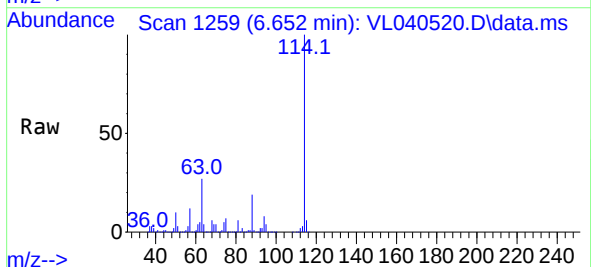
Instrument :
MSVOA_L
ClientSampleId :
SV1

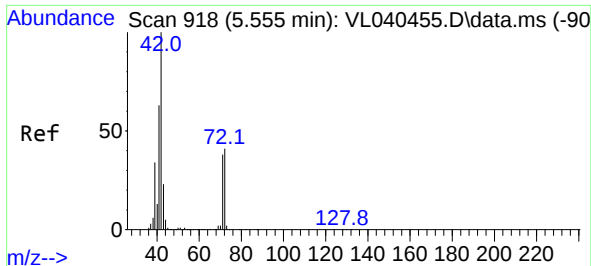
Tgt Ion: 78 Resp: 396161
Ion Ratio Lower Upper
78 100
77 21.5 17.4 26.0
50 18.7 14.4 21.6



#39
1,2-Dichloropropane
Concen: 8.374 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. -0.431 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 63 Resp: 660985
Ion Ratio Lower Upper
63 100
41 0.0 54.3 81.5#
62 18.1 55.6 83.4#





#41

Tetrahydrofuran

Concen: 0.147 ppbv

RT: 5.494 min Scan# 899

Delta R.T. -0.071 min

Lab File: VL040520.D

Acq: 10 Jul 2023 23:59

Instrument :

MSVOA_L

ClientSampleId :

SV1

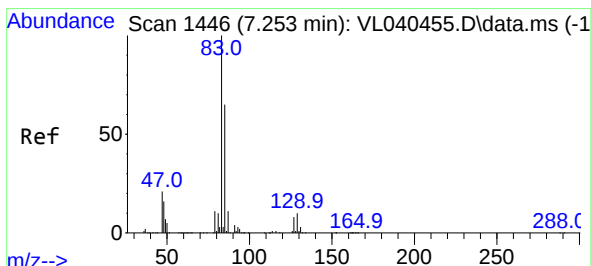
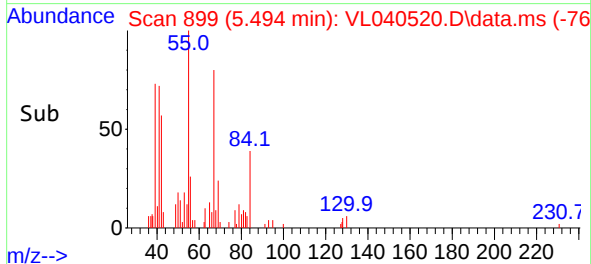
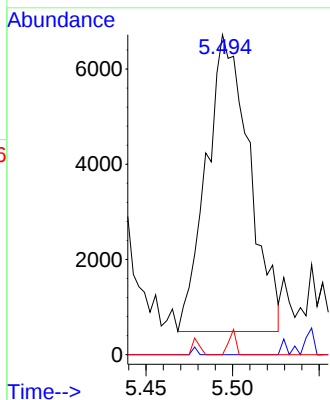
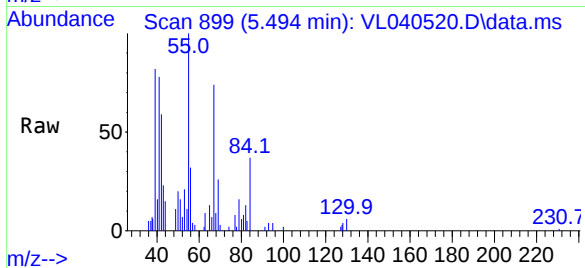
Tgt Ion: 42 Resp: 10767

Ion Ratio Lower Upper

42 100

72 4.6 33.8 50.8#

71 0.0 33.0 49.6#



#42

Bromodichloromethane

Concen: 0.090 ppbv

RT: 7.246 min Scan# 1444

Delta R.T. -0.013 min

Lab File: VL040520.D

Acq: 10 Jul 2023 23:59

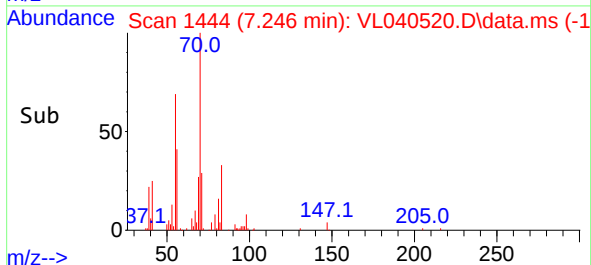
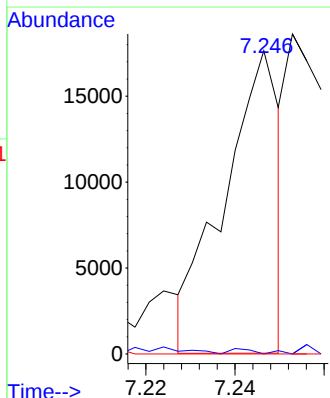
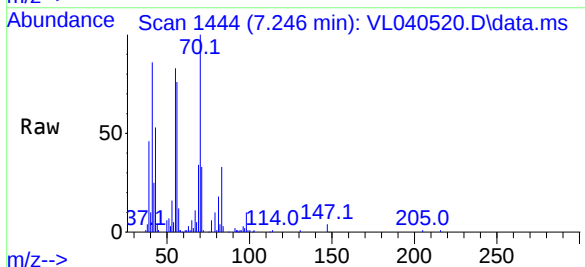
Tgt Ion: 83 Resp: 15136

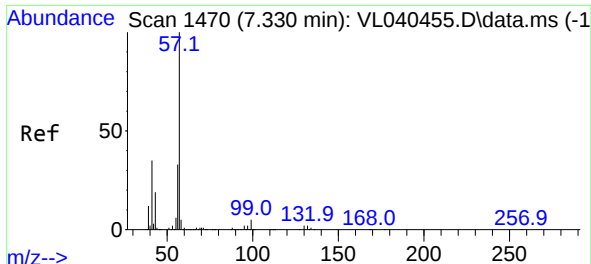
Ion Ratio Lower Upper

83 100

85 0.0 51.1 76.7#

127 0.0 6.5 9.7#

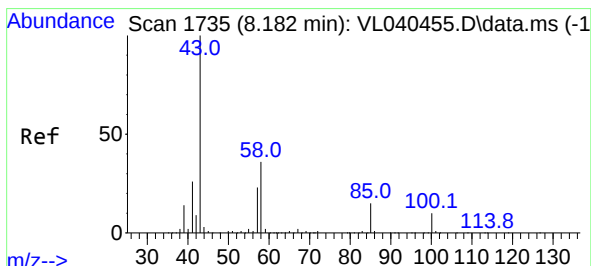
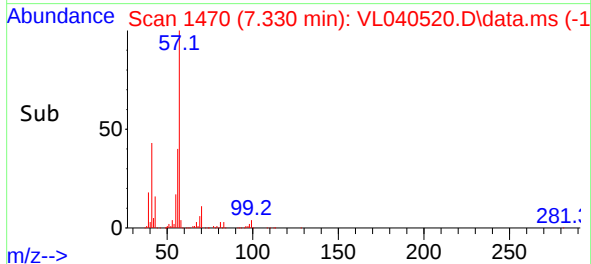
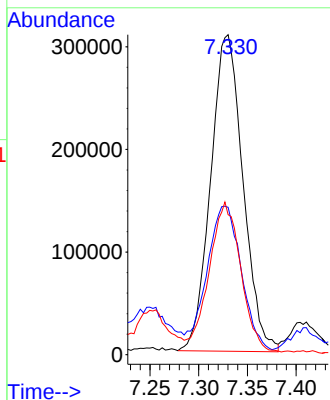
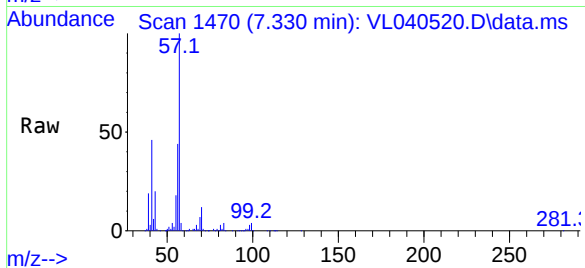




#44
2,2,4-Trimethylpentane
Concen: 2.159 ppbv
RT: 7.330 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

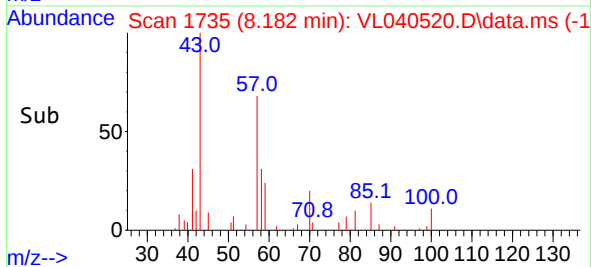
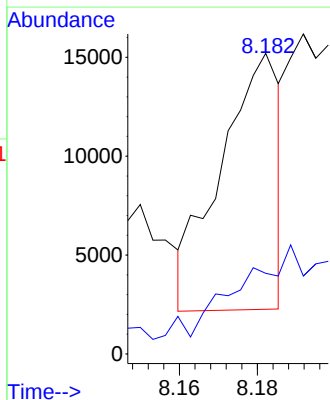
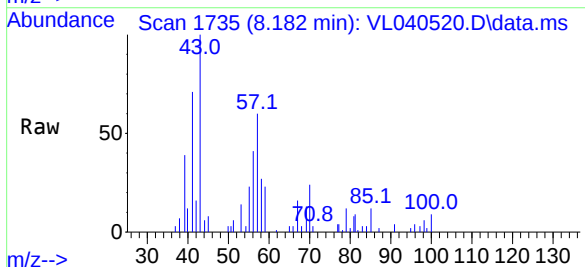
Instrument :
MSVOA_L
ClientSampleId :
SV1

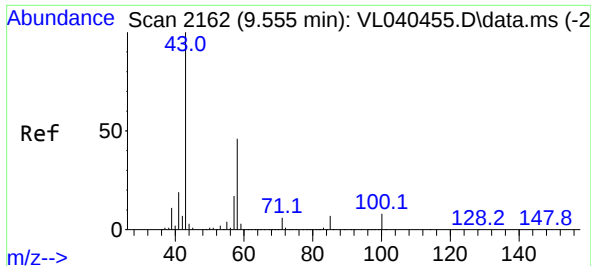
Tgt Ion: 57 Resp: 712225
Ion Ratio Lower Upper
57 100
41 50.5 25.5 38.3#
56 49.5 25.1 37.7#



#50
4-Methyl-2-Pentanone
Concen: 0.074 ppbv
RT: 8.182 min Scan# 1735
Delta R.T. -0.010 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 43 Resp: 13609
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#

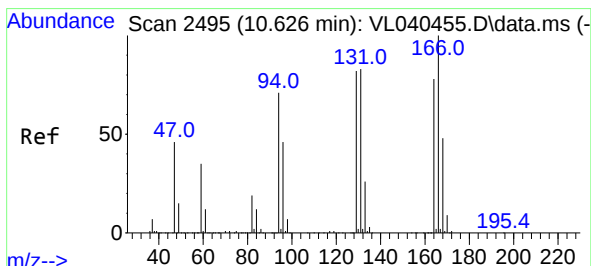
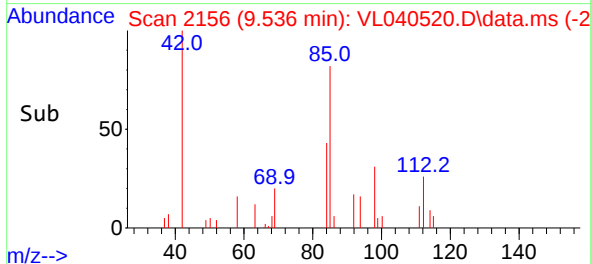
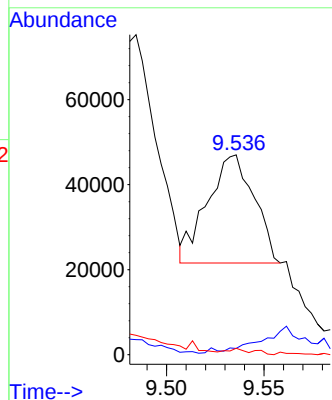
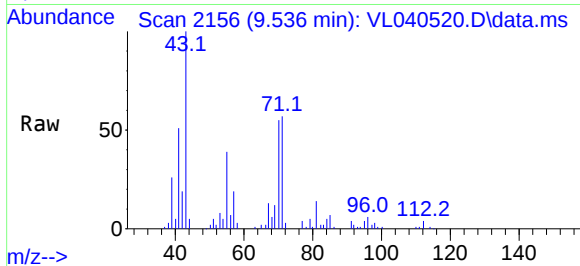




#51
2-Hexanone
Concen: 0.328 ppbv
RT: 9.536 min Scan# 2162
Delta R.T. -0.025 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

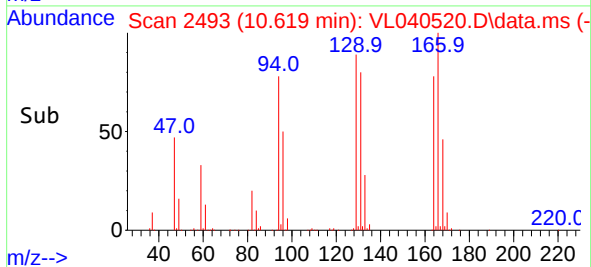
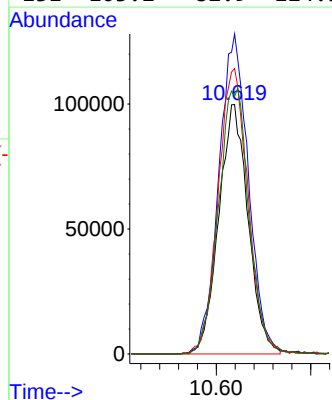
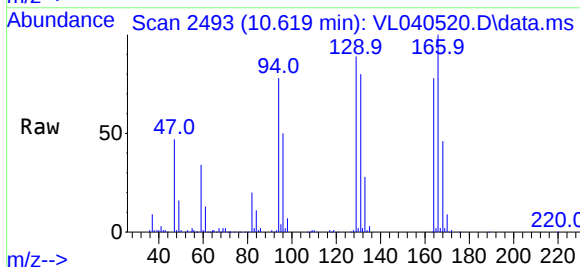
Instrument :
MSVOA_L
ClientSampleId :
SV1

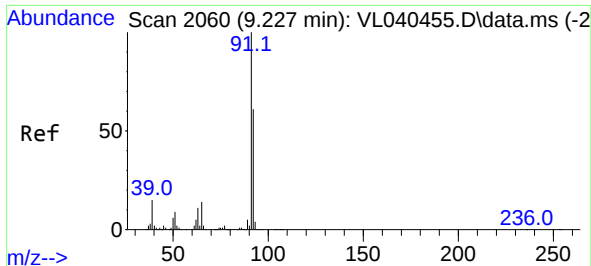
Tgt Ion: 43 Resp: 42378
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 4.1 0.3 0.5#



#52
Tetrachloroethene
Concen: 3.234 ppbv
RT: 10.619 min Scan# 2493
Delta R.T. -0.006 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion:164 Resp: 214738
Ion Ratio Lower Upper
164 100
166 128.3 103.9 155.9
129 114.4 84.6 126.8
131 103.2 82.9 124.3

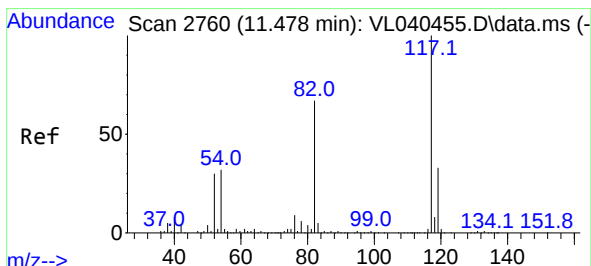
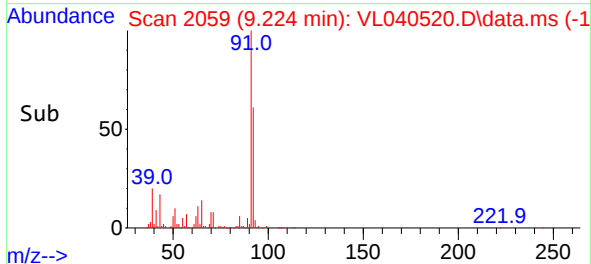
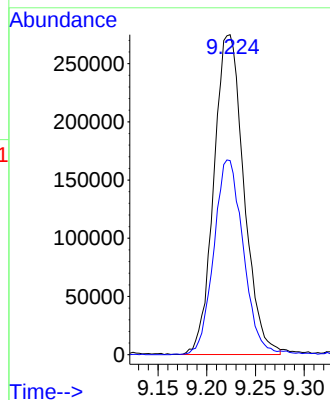
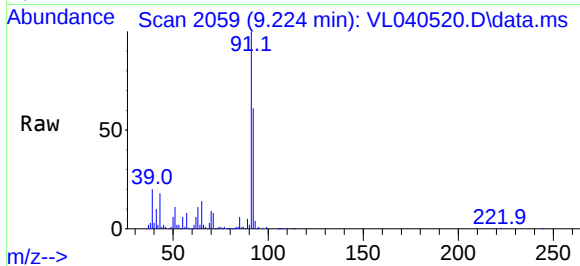




#53
Toluene
Concen: 2.643 ppbv
RT: 9.224 min Scan# 2060
Delta R.T. -0.006 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

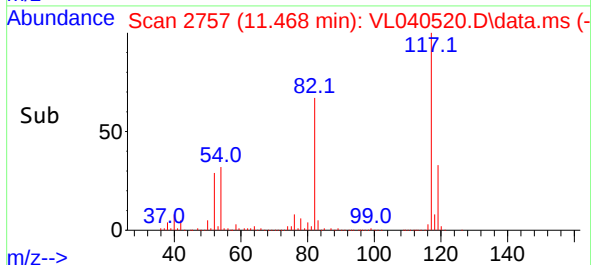
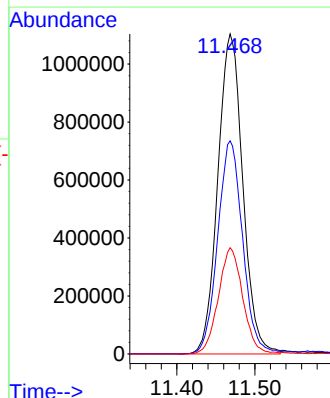
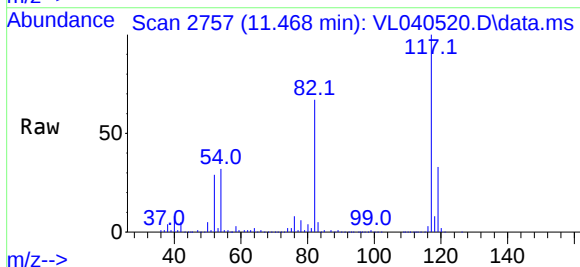
Instrument :
MSVOA_L
ClientSampleId :
SV1

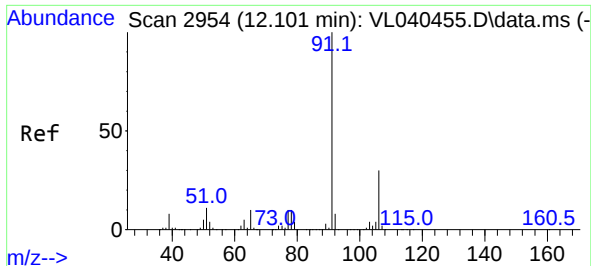
Tgt Ion: 91 Resp: 588619
Ion Ratio Lower Upper
91 100
92 60.6 49.1 73.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. -0.010 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 117 Resp: 2457388
Ion Ratio Lower Upper
117 100
82 66.7 50.2 75.4
119 32.7 26.9 40.3

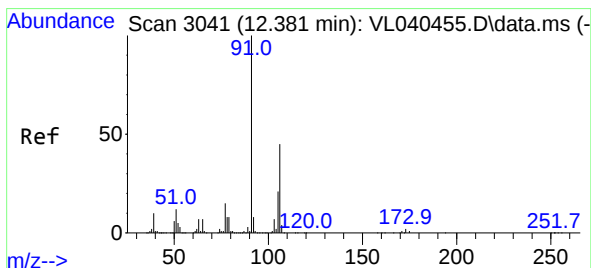
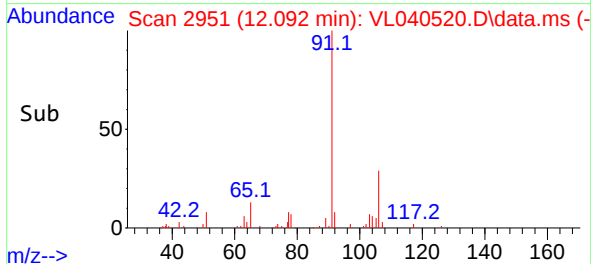
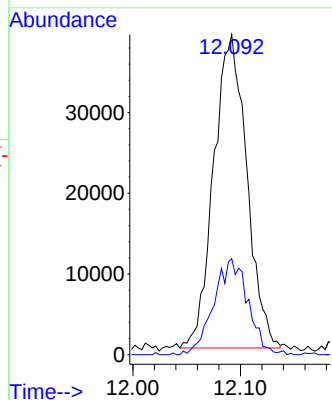
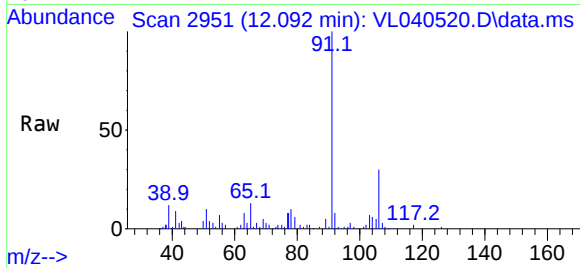




#58
Ethyl Benzene
Concen: 0.269 ppbv
RT: 12.092 min Scan# 2954
Delta R.T. -0.010 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

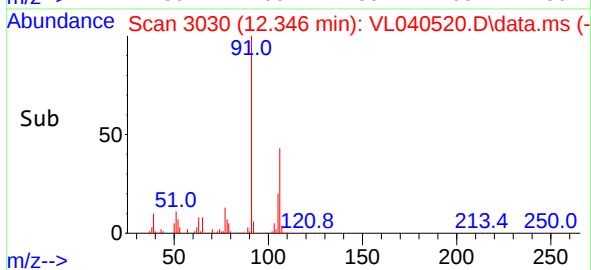
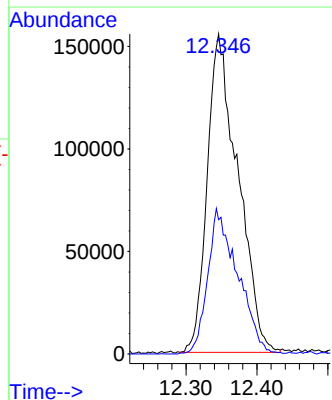
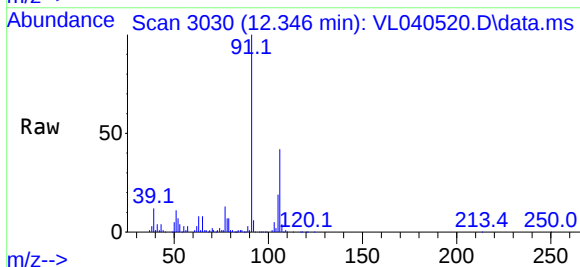
Instrument :
MSVOA_1
ClientSampleId :
SV1

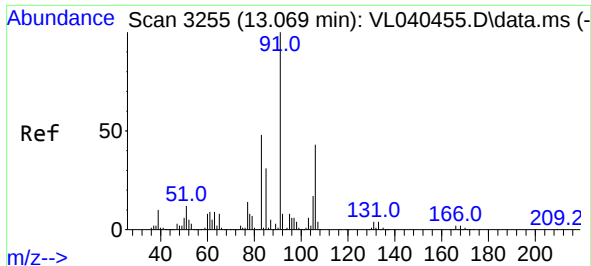
Tgt Ion: 91 Resp: 82967
Ion Ratio Lower Upper
91 100
106 30.7 25.4 38.0



#59
m/p-Xylene
Concen: 1.696 ppbv
RT: 12.346 min Scan# 3030
Delta R.T. -0.039 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 91 Resp: 466822
Ion Ratio Lower Upper
91 100
106 44.7 35.9 53.9

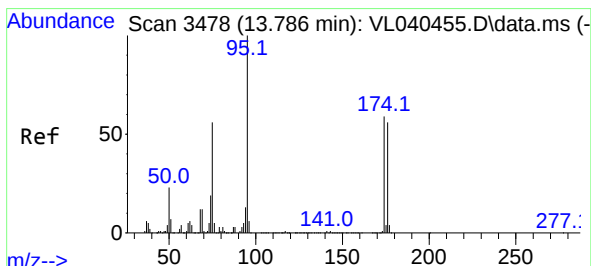
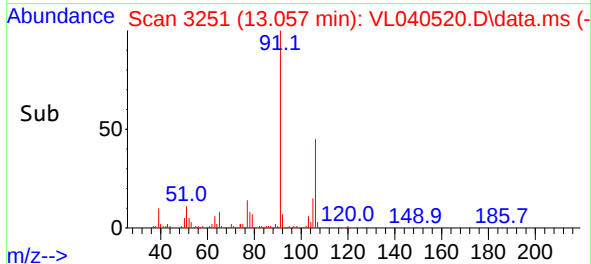
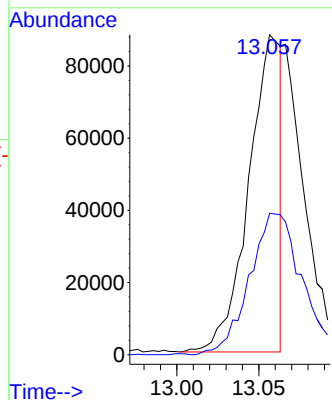
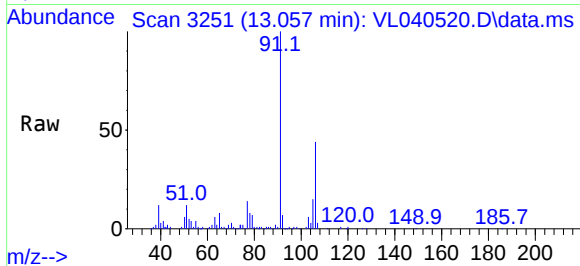




#60
o-Xylene
Concen: 0.454 ppbv
RT: 13.057 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

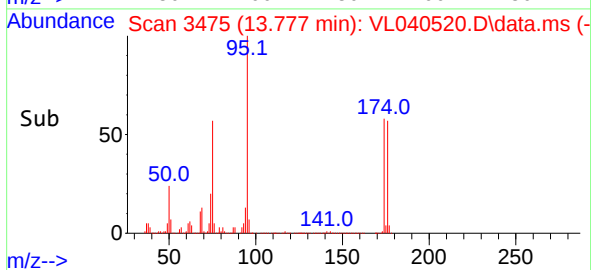
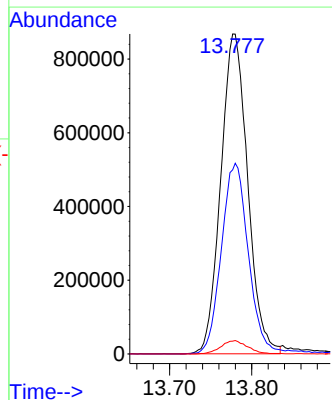
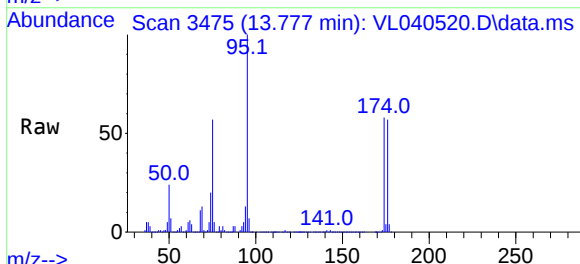
Instrument :
MSVOA_L
ClientSampleId :
SV1

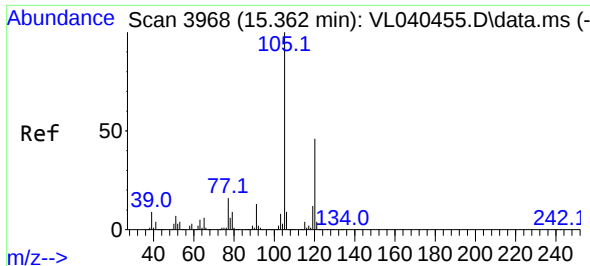
Tgt Ion: 91 Resp: 118947
Ion Ratio Lower Upper
91 100
106 73.4 22.7 68.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.179 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. -0.006 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion: 95 Resp: 1979618
Ion Ratio Lower Upper
95 100
174 60.7 50.6 75.8
175 4.3 3.7 5.5

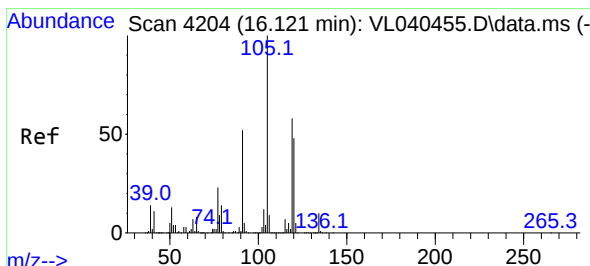
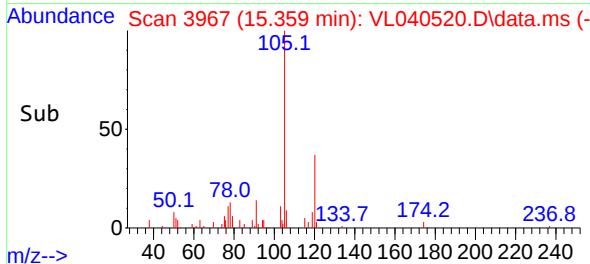
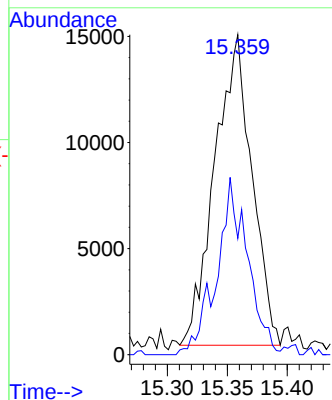
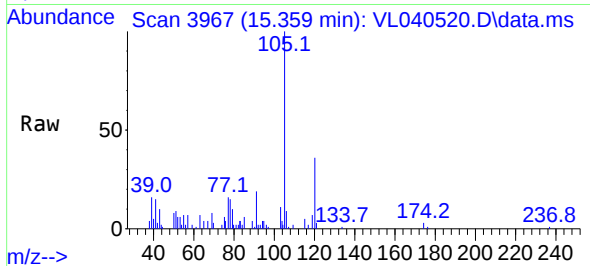




#73
1,3,5-Trimethylbenzene
Concen: 0.116 ppbv
RT: 15.359 min Scan# 3968
Delta R.T. -0.003 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:105 Resp: 31463
Ion Ratio Lower Upper
105 100
120 39.5 38.2 57.2



#74
1,2,4-Trimethylbenzene
Concen: 0.118 ppbv
RT: 16.101 min Scan# 4198
Delta R.T. -0.016 min
Lab File: VL040520.D
Acq: 10 Jul 2023 23:59

Tgt Ion:105 Resp: 37116
Ion Ratio Lower Upper
105 100
120 28.5 40.3 60.5#
91 10.2 46.8 70.2#
77 18.8 18.6 28.0

