

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040442.D
 Acq On : 16 May 2023 17:43
 Operator : SY/MD
 Sample : 02793-01 8X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

Quant Time: May 17 05:15:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 17 05:12:40 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.205	49	1011043	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2403502	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.490	117	2071804	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	1686659	10.125	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

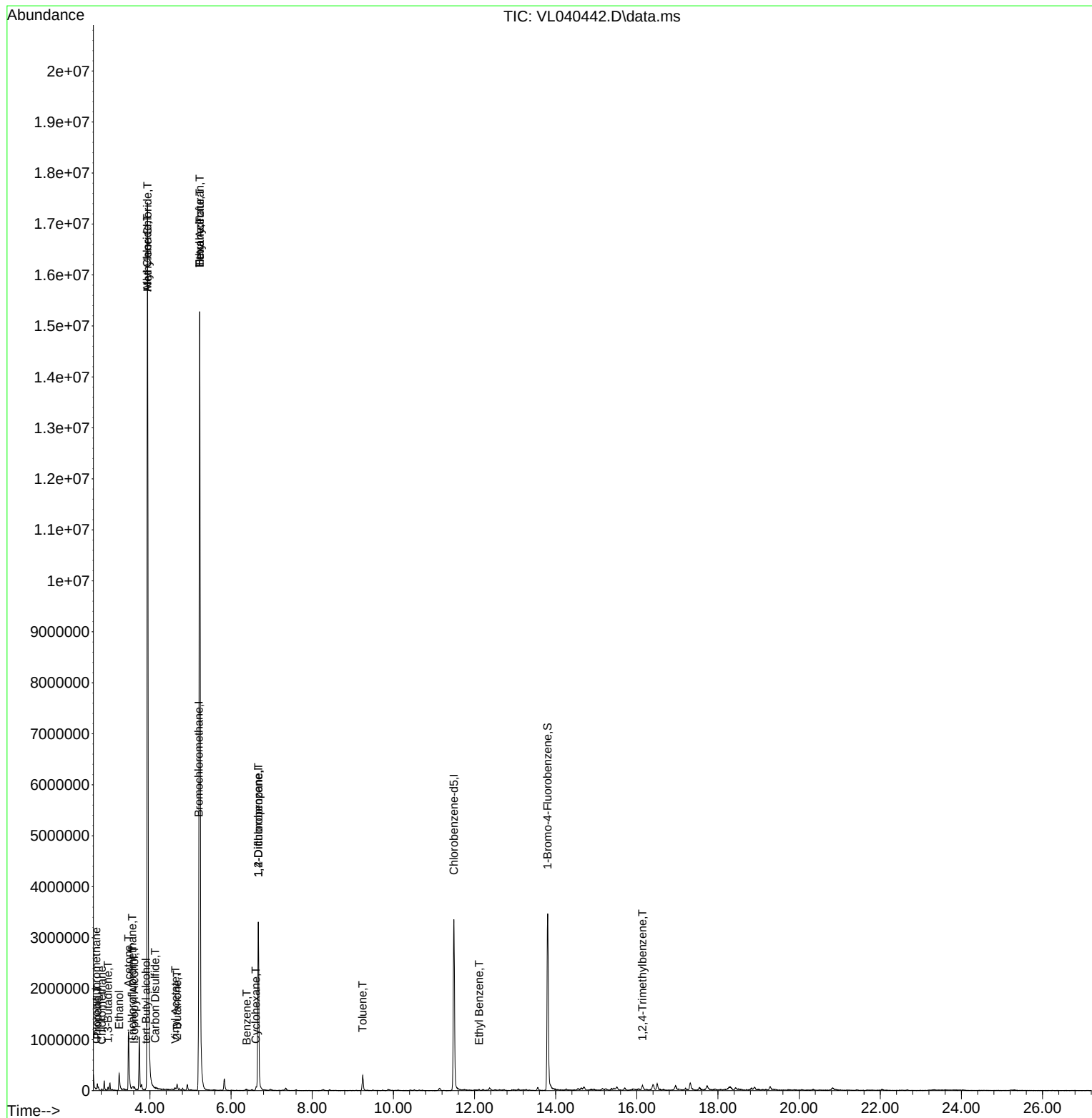
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.677	51	42009	0.322	ppbv #	81
4) Chloromethane	2.816	50	19949	0.246	ppbv	94
9) Propene	2.703	41	30423	0.599	ppbv	88
11) Trichlorofluoromethane	3.568	101	25906	0.144	ppbv	91
13) Ethanol	3.240	45	343756	89.294	ppbv	89
15) Acetone	3.471	43	1167127	9.125	ppbv	99
16) 1,3-Butadiene	2.967	39	17266	0.294	ppbv #	25
17) tert-Butyl alcohol	3.902	59	14171	0.111	ppbv #	75
19) Isopropyl Alcohol	3.610	45	8637	0.139	ppbv #	92
20) Methylene Chloride	3.941	84	6577874	115.447	ppbv	88
21) Allyl Chloride	3.938	41	253150	3.096	ppbv #	24
23) Vinyl Acetate	4.626	43	12119	0.343	ppbv #	84
25) Ethyl Acetate	5.227	43	4438340	18.426	ppbv #	75
26) Hexane	5.227	57	6504897	65.144	ppbv #	34
27) Carbon Disulfide	4.131	76	9272	0.071	ppbv #	73
30) Cyclohexane	6.610	84	4881	0.060	ppbv #	1
34) 2-Butanone	4.671	43	49418	0.386	ppbv #	58
36) Benzene	6.385	78	7300	0.037	ppbv #	77
39) 1,2-Dichloropropane	6.671	63	627826	8.210	ppbv #	23
41) Tetrahydrofuran	5.227	42	2397538	33.767	ppbv #	49
53) Toluene	9.240	91	96694	0.469	ppbv #	20
58) Ethyl Benzene	12.114	91	11371	0.043	ppbv #	84
74) 1,2,4-Trimethylbenzene	16.140	105	53155	0.195	ppbv #	74

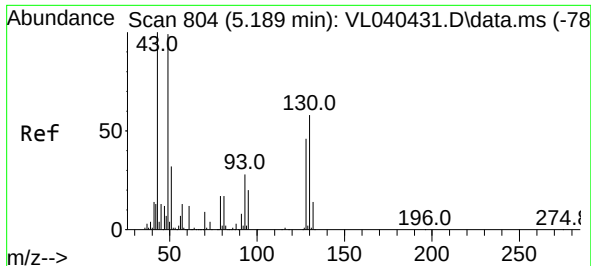
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 17 05:12:40 2023
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.205 min Scan# 80

Delta R.T. -0.000 min

Lab File: VL040442.D

Acq: 16 May 2023 17:43

Instrument :

MSVOA_L

ClientSampleId :

SG-1

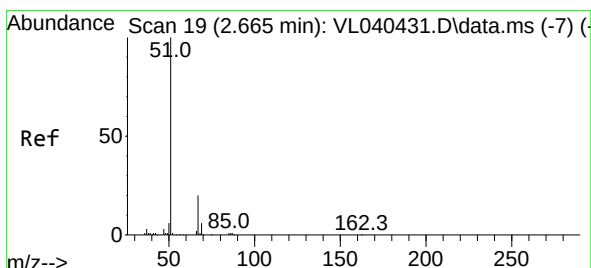
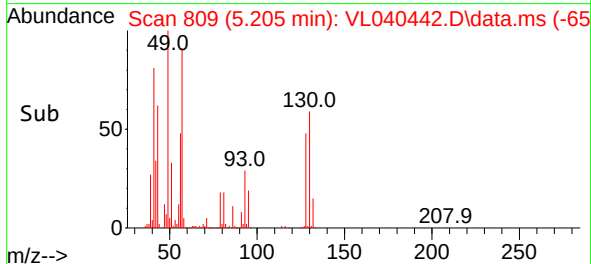
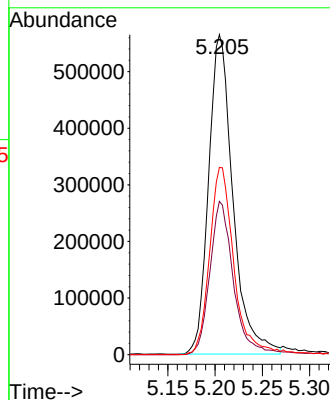
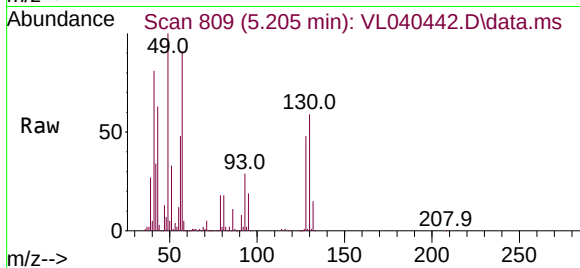
Tgt Ion: 49 Resp: 1011043

Ion Ratio Lower Upper

49 100

128 47.1 24.3 72.8

130 59.1 30.2 90.6



#3

Chlorodifluoromethane

Concen: 0.322 ppbv

RT: 2.677 min Scan# 23

Delta R.T. 0.003 min

Lab File: VL040442.D

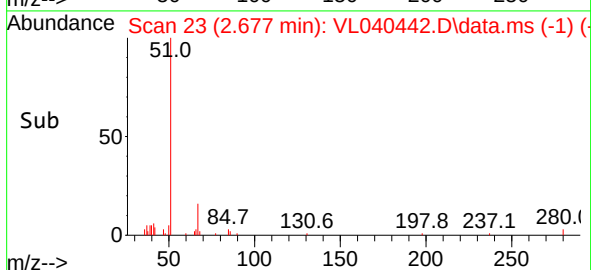
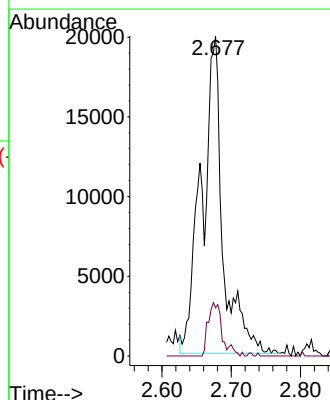
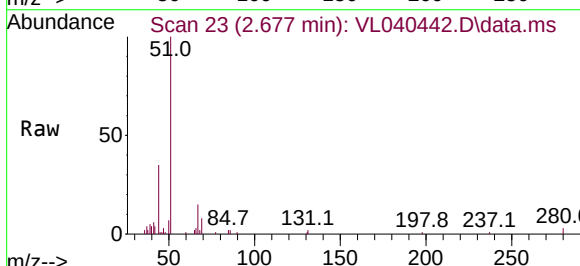
Acq: 16 May 2023 17:43

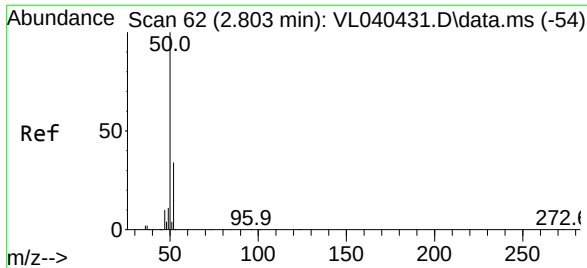
Tgt Ion: 51 Resp: 42009

Ion Ratio Lower Upper

51 100

67 11.2 15.8 23.6#

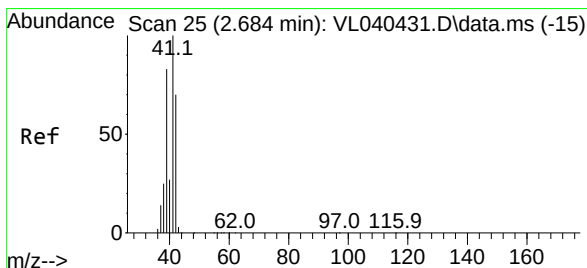
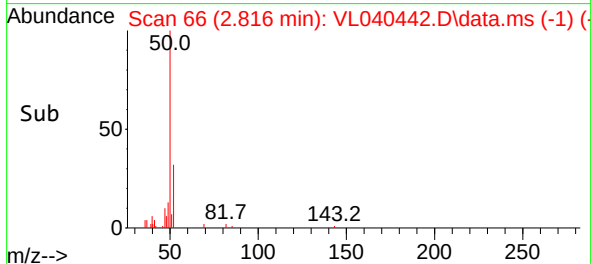
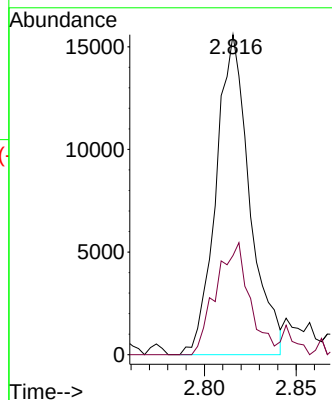
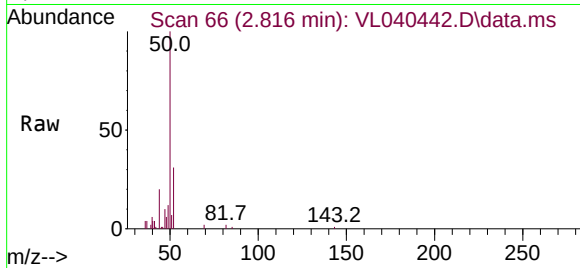




#4
Chloromethane
Concen: 0.246 ppbv
RT: 2.816 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

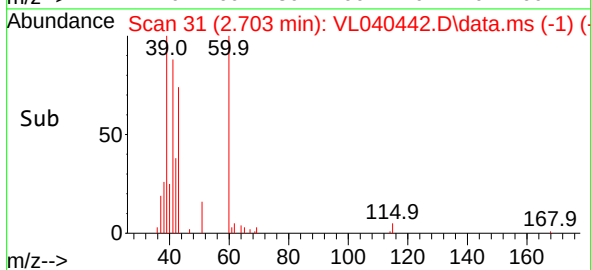
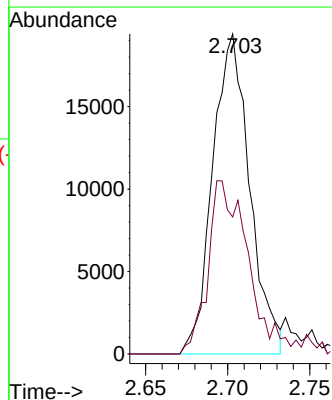
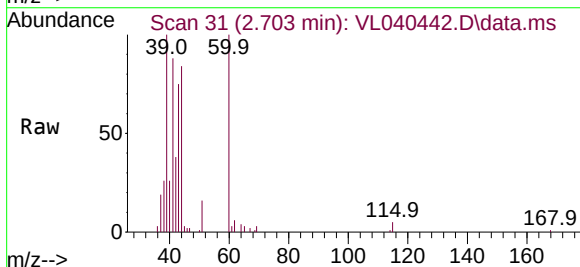
Instrument :
MSVOA_L
ClientSampleId :
SG-1

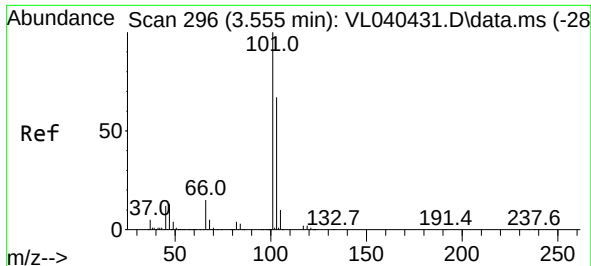
Tgt Ion: 50 Resp: 19949
Ion Ratio Lower Upper
50 100
52 31.0 27.6 41.4



#9
Propene
Concen: 0.599 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

Tgt Ion: 41 Resp: 30423
Ion Ratio Lower Upper
41 100
42 61.2 56.6 84.8

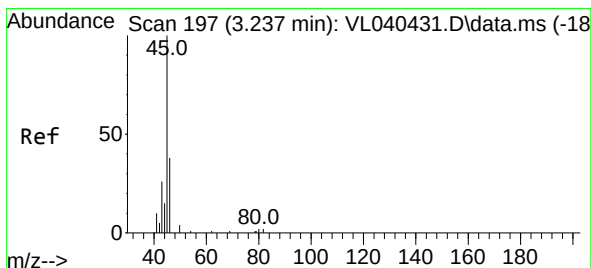
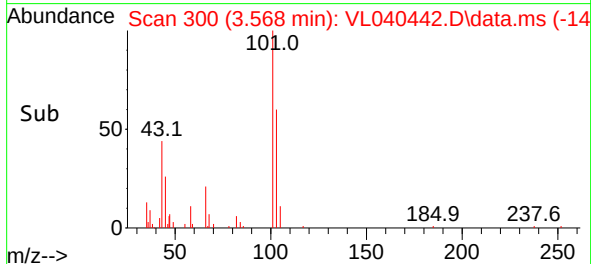
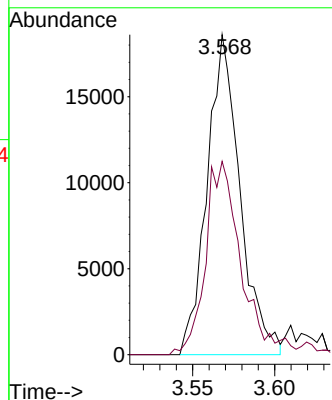
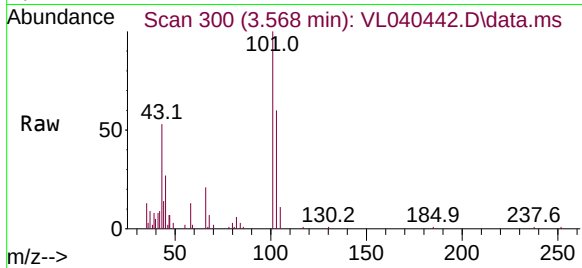




#11
 Trichlorofluoromethane
 Concen: 0.144 ppbv
 RT: 3.568 min Scan# 300
 Delta R.T. -0.000 min
 Lab File: VL040442.D
 Acq: 16 May 2023 17:43

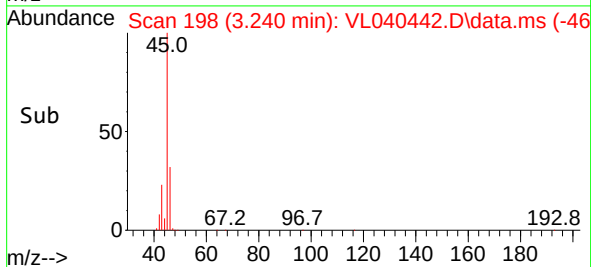
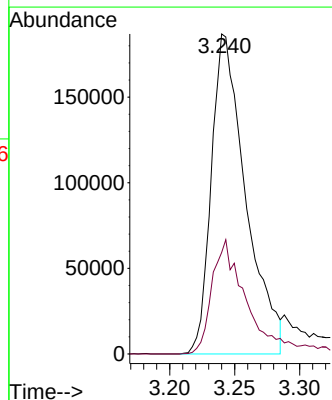
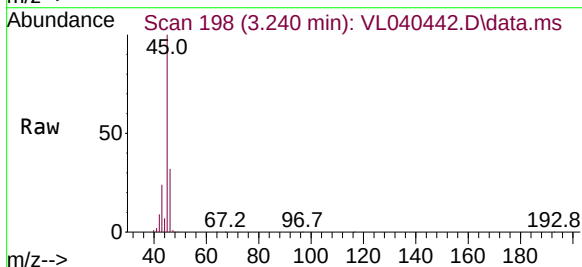
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

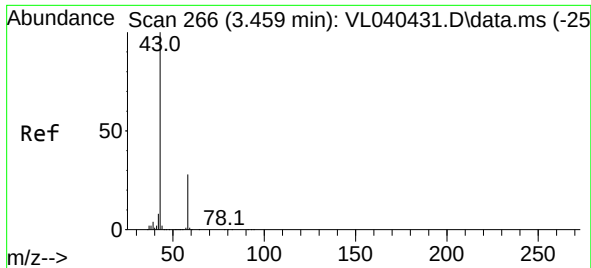
Tgt Ion:101 Resp: 25906
 Ion Ratio Lower Upper
 101 100
 103 59.2 53.3 79.9



#13
 Ethanol
 Concen: 89.294 ppbv
 RT: 3.240 min Scan# 198
 Delta R.T. -0.010 min
 Lab File: VL040442.D
 Acq: 16 May 2023 17:43

Tgt Ion: 45 Resp: 343756
 Ion Ratio Lower Upper
 45 100
 46 38.9 13.2 52.8





#15

Acetone

Concen: 9.125 ppbv

RT: 3.471 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040442.D

Acq: 16 May 2023 17:43

Instrument :

MSVOA_L

ClientSampleId :

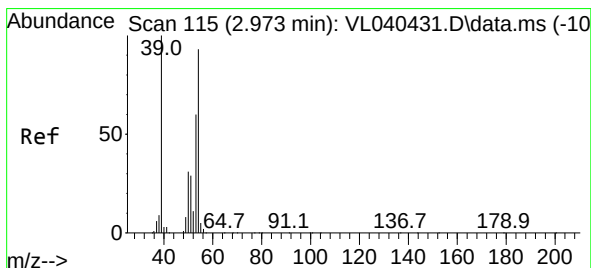
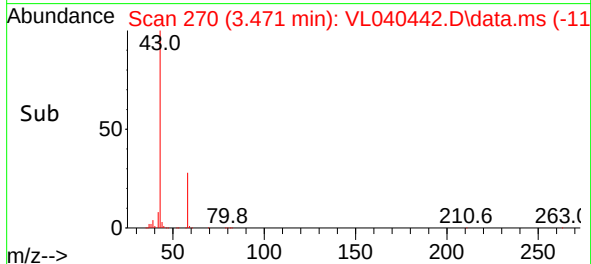
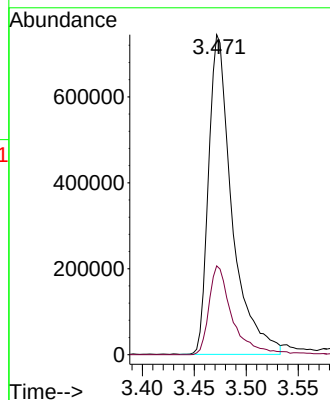
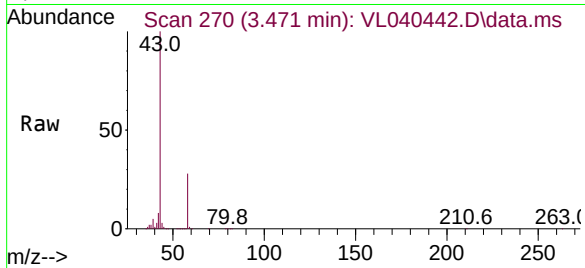
SG-1

Tgt Ion: 43 Resp: 1167127

Ion Ratio Lower Upper

43 100

58 28.1 22.2 33.4



#16

1,3-Butadiene

Concen: 0.294 ppbv

RT: 2.967 min Scan# 113

Delta R.T. -0.019 min

Lab File: VL040442.D

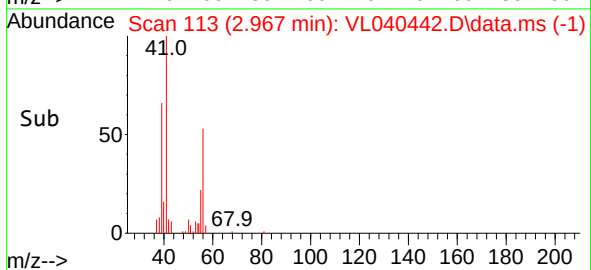
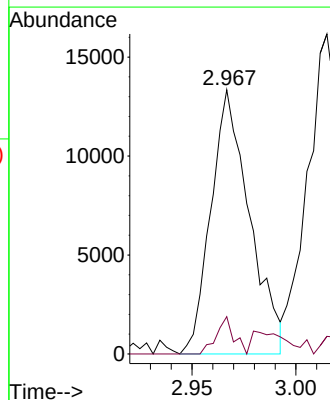
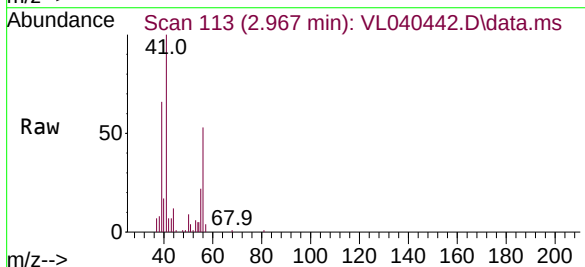
Acq: 16 May 2023 17:43

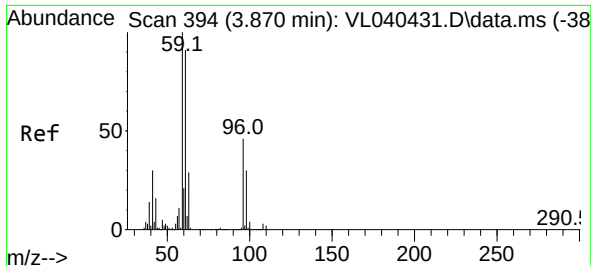
Tgt Ion: 39 Resp: 17266

Ion Ratio Lower Upper

39 100

54 17.5 68.9 103.3#





#17

tert-Butyl alcohol

Concen: 0.111 ppbv

RT: 3.902 min Scan# 404

Delta R.T. 0.022 min

Lab File: VL040442.D

Acq: 16 May 2023 17:43

Instrument :

MSVOA_L

ClientSampleId :

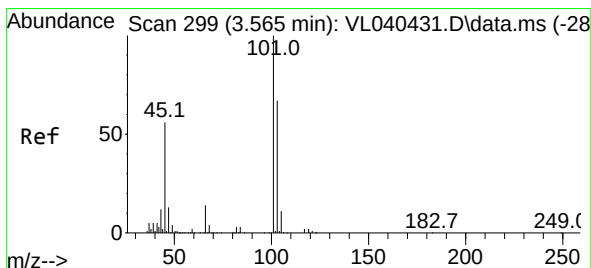
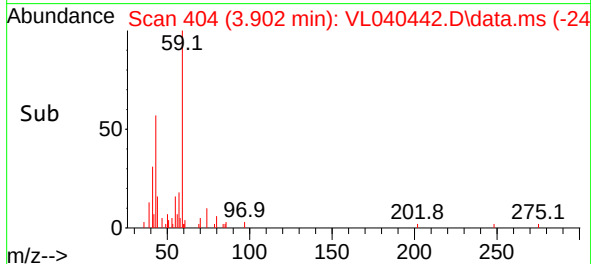
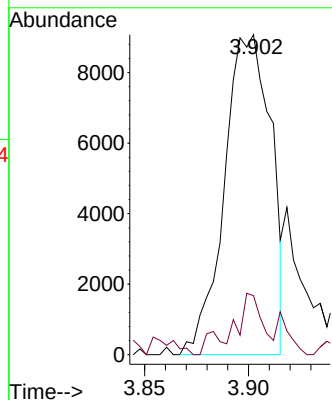
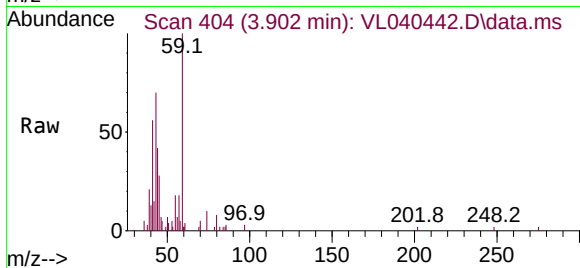
SG-1

Tgt Ion: 59 Resp: 14171

Ion Ratio Lower Upper

59 100

57 20.1 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 0.139 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.032 min

Lab File: VL040442.D

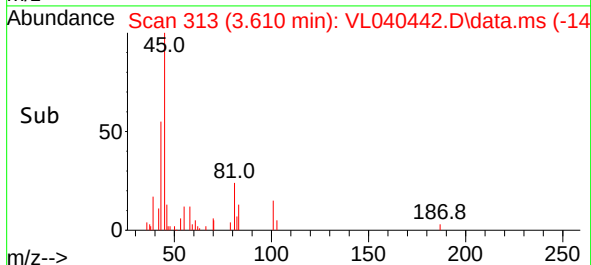
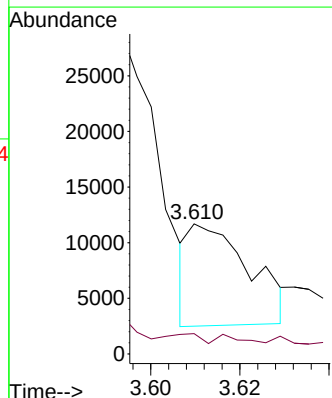
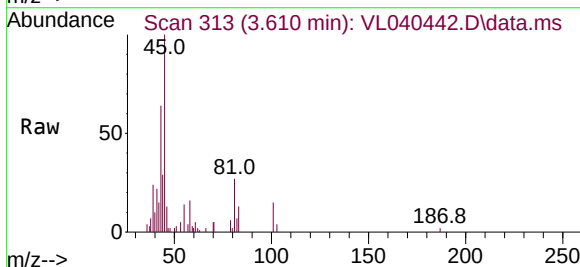
Acq: 16 May 2023 17:43

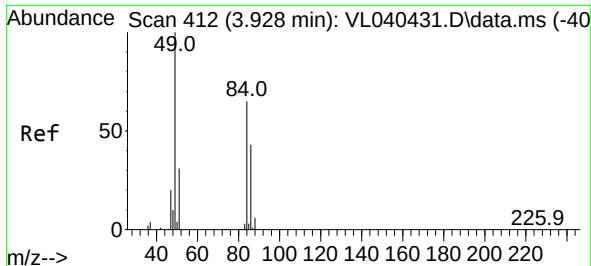
Tgt Ion: 45 Resp: 8637

Ion Ratio Lower Upper

45 100

58 0.0 2.1 3.1#



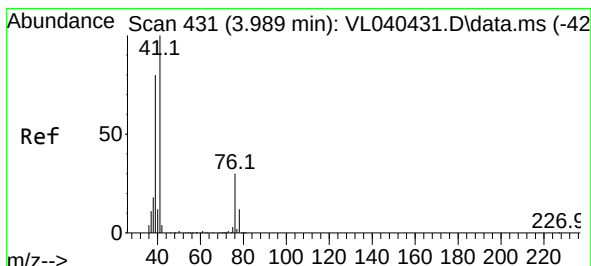
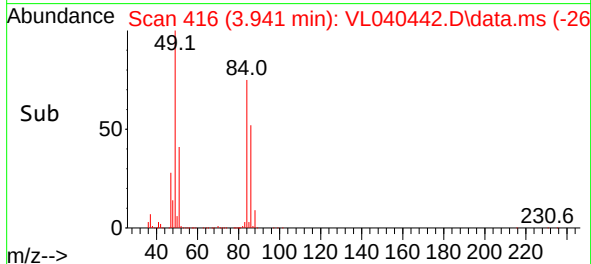
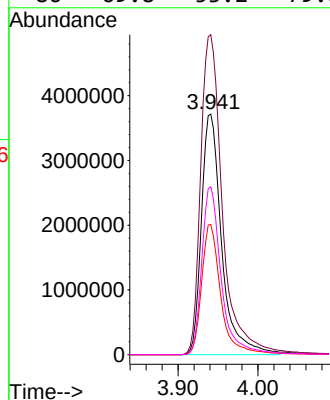
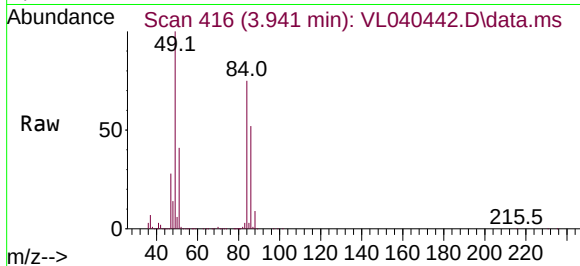


#20
Methylene Chloride
Concen: 115.447 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.003 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 84 Resp: 6577874

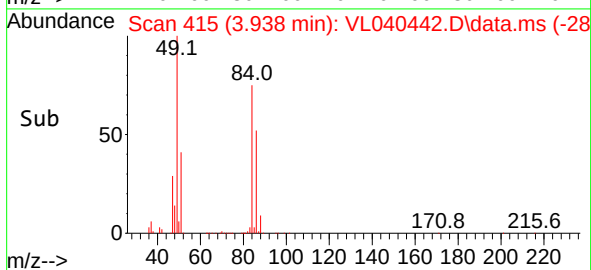
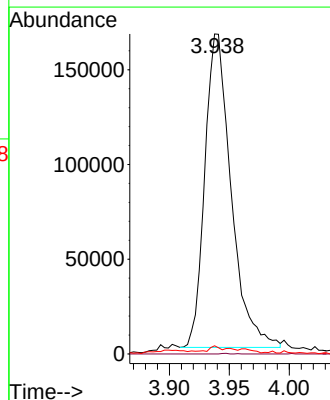
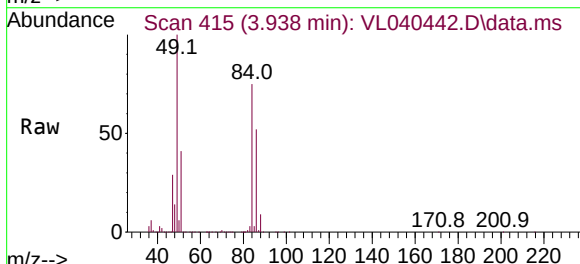
Ion	Ratio	Lower	Upper
84	100		
49	133.0	123.7	185.5
51	54.1	38.6	57.8
86	69.8	53.2	79.8

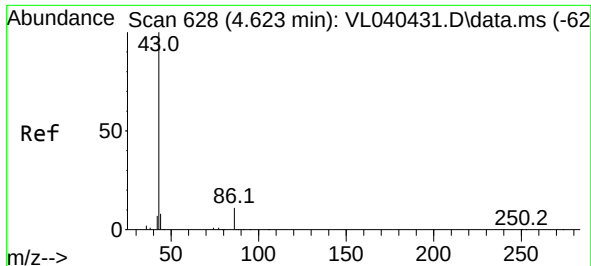


#21
Allyl Chloride
Concen: 3.096 ppbv
RT: 3.938 min Scan# 415
Delta R.T. -0.064 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

Tgt Ion: 41 Resp: 253150

Ion	Ratio	Lower	Upper
41	100		
76	4.6	25.3	37.9#
39	2.6	63.5	95.3#

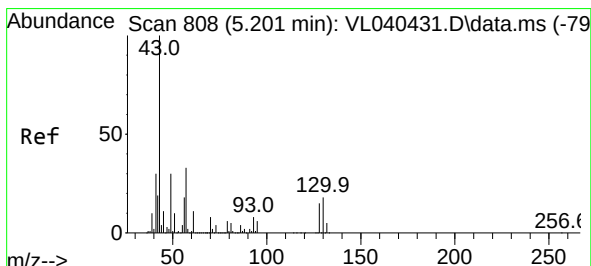
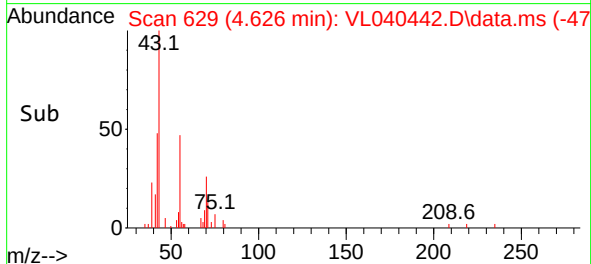
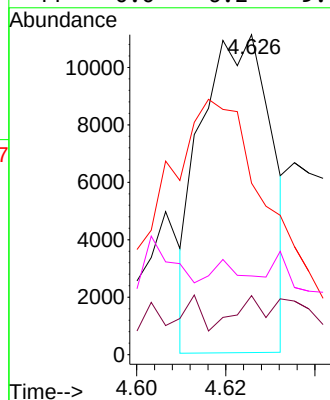
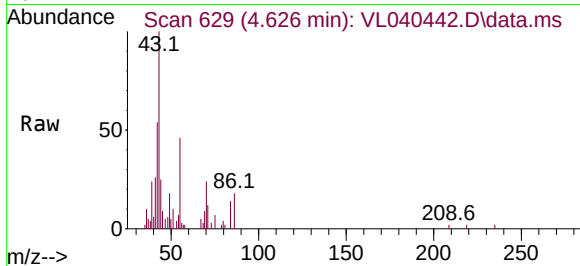




#23
 Vinyl Acetate
 Concen: 0.343 ppbv
 RT: 4.626 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040442.D
 Acq: 16 May 2023 17:43

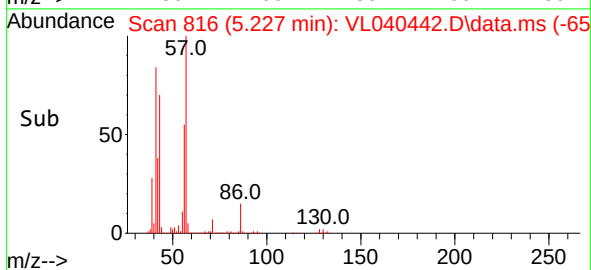
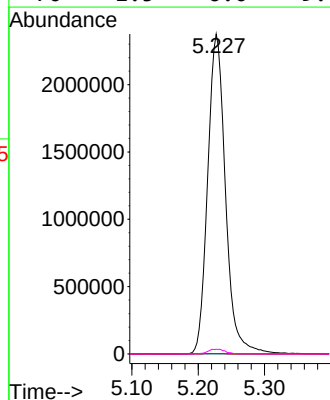
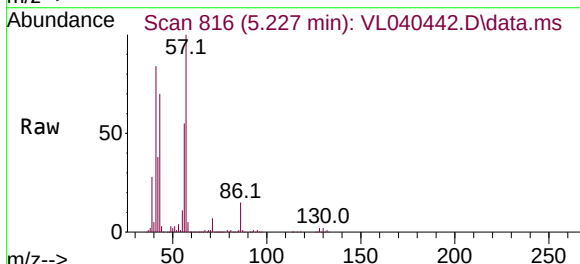
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

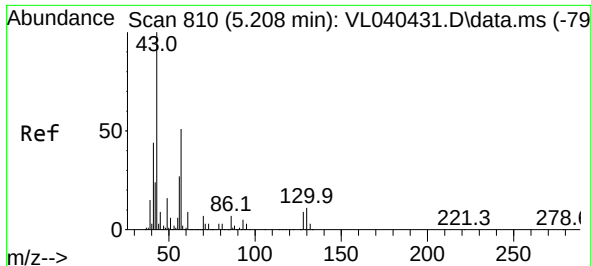
Tgt Ion:	43	Resp:	12119
Ion	Ratio	Lower	Upper
43	100		
86	10.7	5.4	8.2#
42	15.1	7.8	11.6#
44	0.0	6.2	9.4#



#25
 Ethyl Acetate
 Concen: 18.426 ppbv
 RT: 5.227 min Scan# 816
 Delta R.T. 0.013 min
 Lab File: VL040442.D
 Acq: 16 May 2023 17:43

Tgt Ion:	43	Resp:	4438340
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.6	13.0#
61	0.2	8.6	12.8#
70	1.5	6.0	9.0#



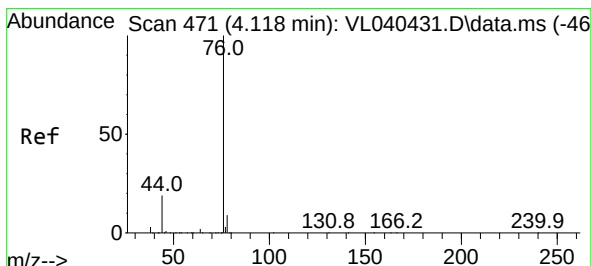
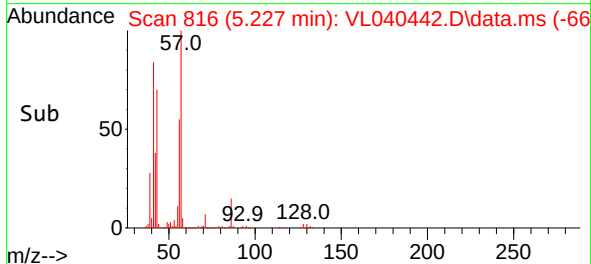
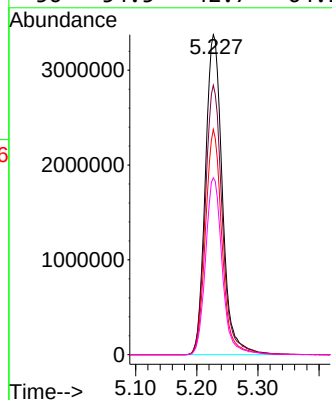
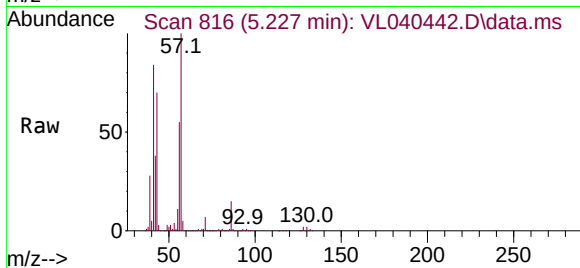


#26
Hexane
Concen: 65.144 ppbv
RT: 5.227 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 57 Resp: 6504897

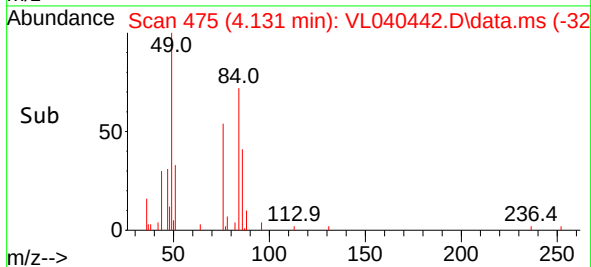
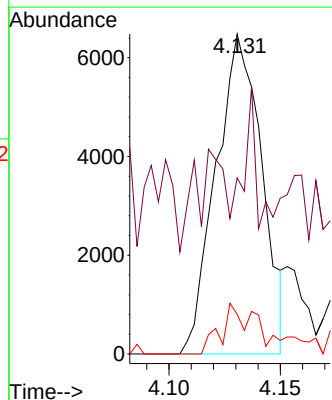
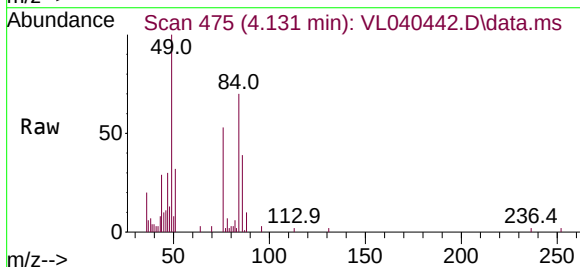
Ion	Ratio	Lower	Upper
57	100		
41	85.1	75.1	112.7
43	68.5	194.4	291.6#
56	54.5	42.7	64.1

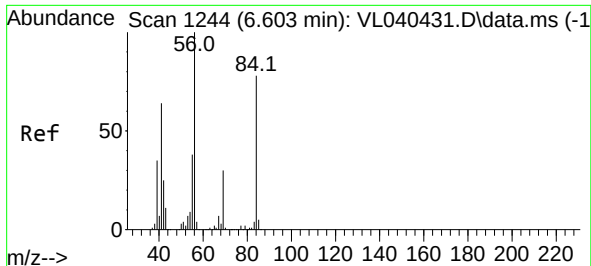


#27
Carbon Disulfide
Concen: 0.071 ppbv
RT: 4.131 min Scan# 475
Delta R.T. -0.000 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

Tgt Ion: 76 Resp: 9272

Ion	Ratio	Lower	Upper
76	100		
44	31.8	15.3	22.9#
78	0.0	7.4	11.2#

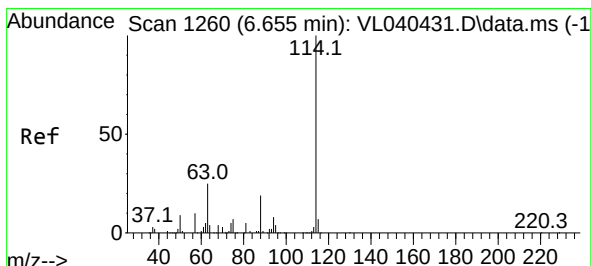
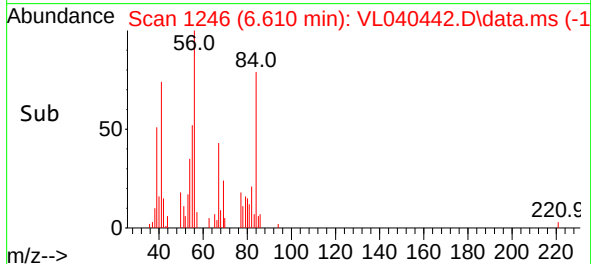
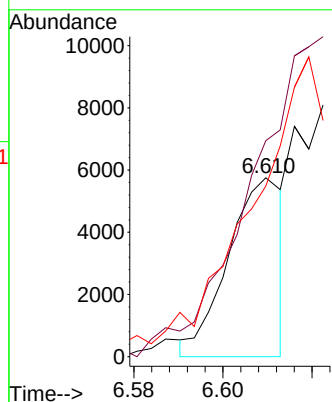
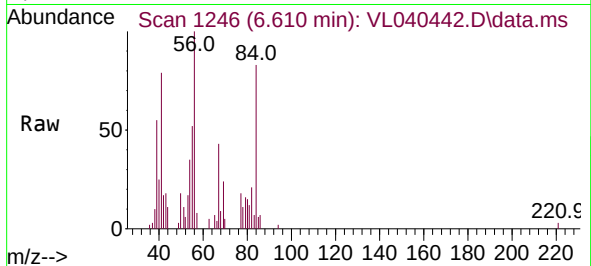




#30
Cyclohexane
Concen: 0.060 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. -0.006 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

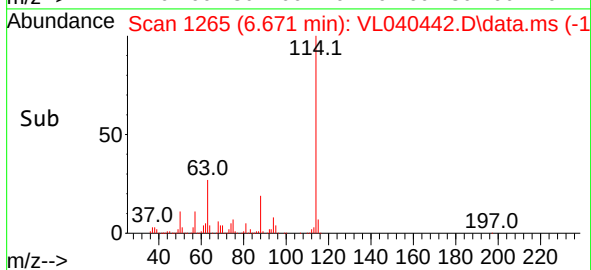
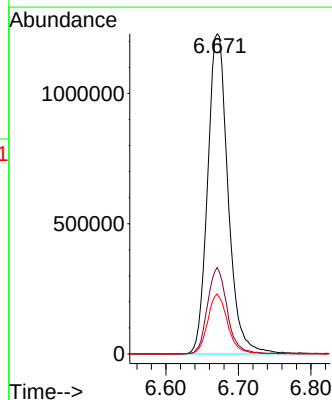
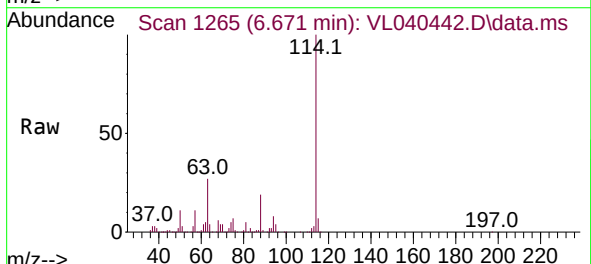
Instrument :
MSVOA_L
ClientSampleId :
SG-1

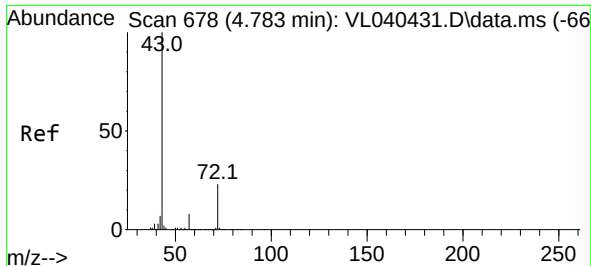
Tgt Ion: 84 Resp: 4881
Ion Ratio Lower Upper
84 100
56 0.0 108.2 162.4#
41 0.0 66.9 100.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.671 min Scan# 1265
Delta R.T. -0.000 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

Tgt Ion: 114 Resp: 2403502
Ion Ratio Lower Upper
114 100
63 26.3 21.0 31.6
88 18.4 14.6 22.0

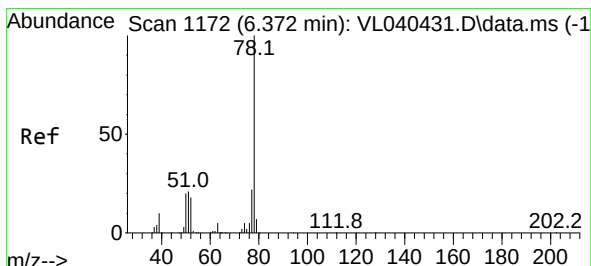
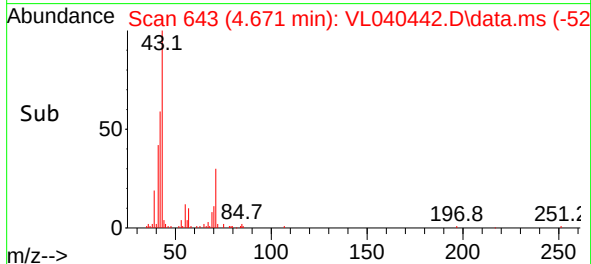
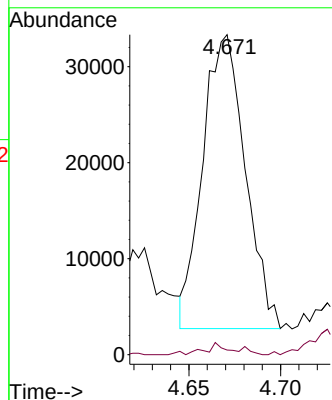
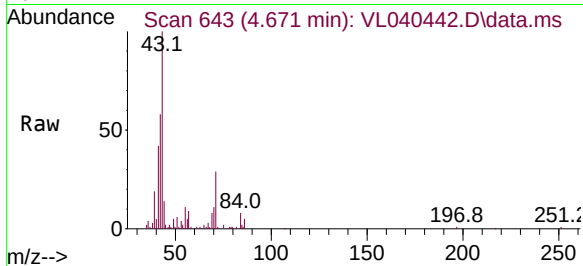




#34
2-Butanone
Concen: 0.386 ppbv
RT: 4.671 min Scan# 643
Delta R.T. -0.125 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

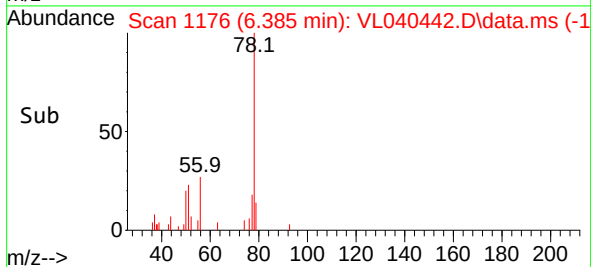
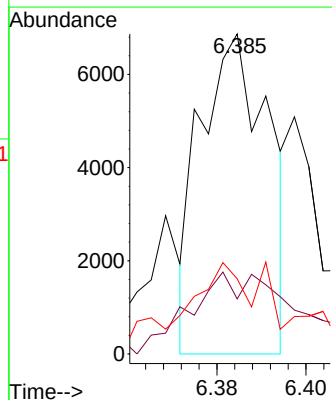
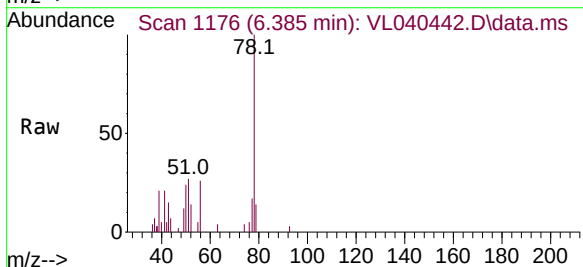
Instrument :
MSVOA_L
ClientSampleId :
SG-1

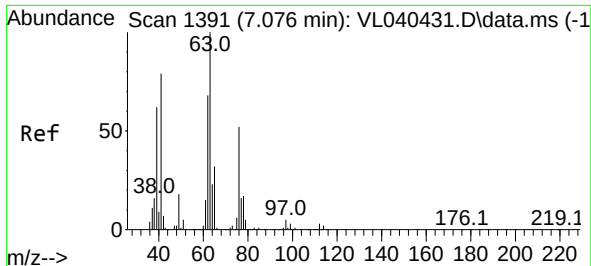
Tgt Ion: 43 Resp: 49418
Ion Ratio Lower Upper
43 100
72 2.6 18.3 27.5#



#36
Benzene
Concen: 0.037 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. -0.000 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

Tgt Ion: 78 Resp: 7300
Ion Ratio Lower Upper
78 100
77 2.8 17.7 26.5#
50 18.5 15.8 23.8





#39

1,2-Dichloropropane

Concen: 8.210 ppbv

RT: 6.671 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL040442.D

Acq: 16 May 2023 17:43

Instrument :

MSVOA_L

ClientSampleId :

SG-1

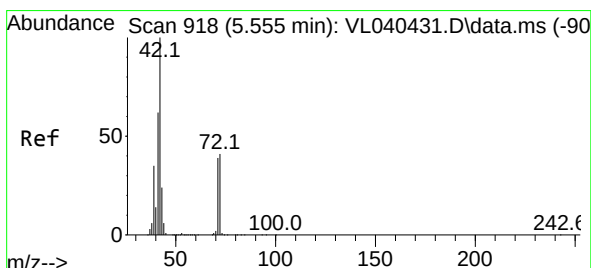
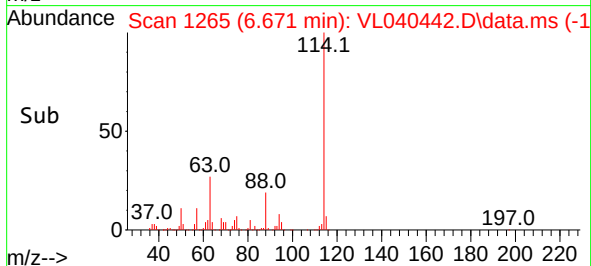
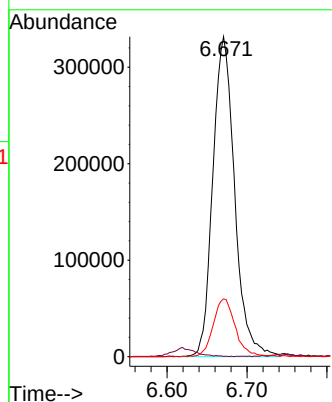
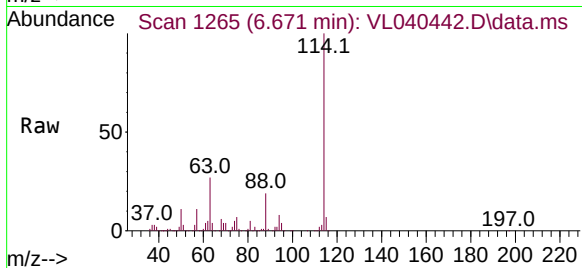
Tgt Ion: 63 Resp: 627826

Ion Ratio Lower Upper

63 100

41 0.0 63.3 94.9#

62 18.1 54.2 81.4#



#41

Tetrahydrofuran

Concen: 33.767 ppbv

RT: 5.227 min Scan# 816

Delta R.T. -0.341 min

Lab File: VL040442.D

Acq: 16 May 2023 17:43

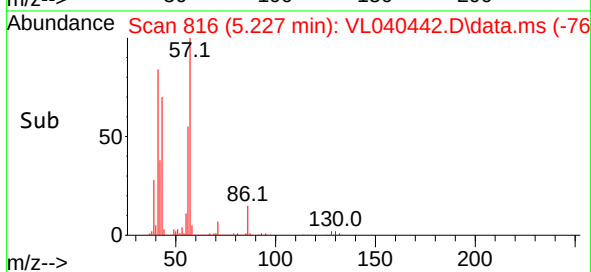
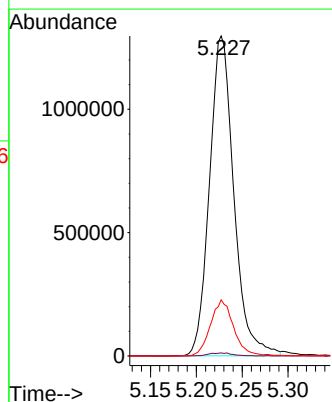
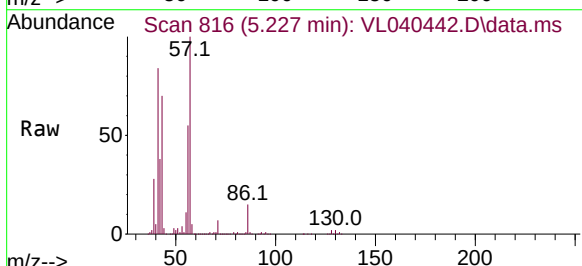
Tgt Ion: 42 Resp: 2397538

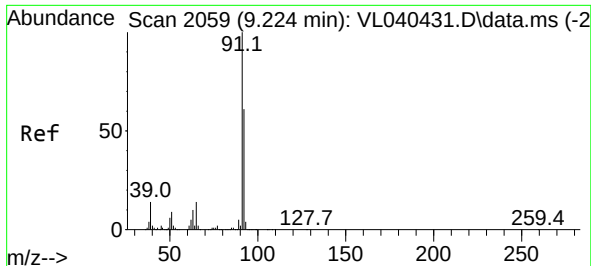
Ion Ratio Lower Upper

42 100

72 1.0 33.0 49.4#

71 16.9 32.2 48.2#

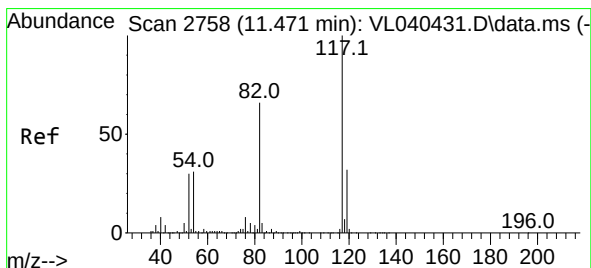
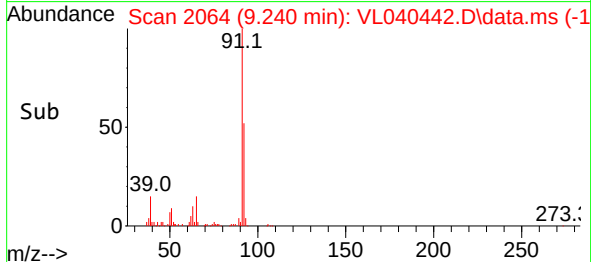
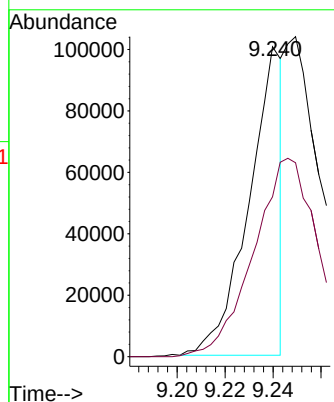
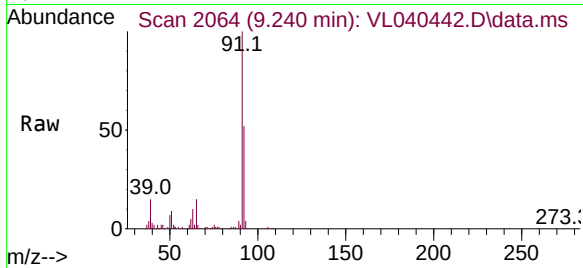




#53
Toluene
Concen: 0.469 ppbv
RT: 9.240 min Scan# 2059
Delta R.T. -0.003 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

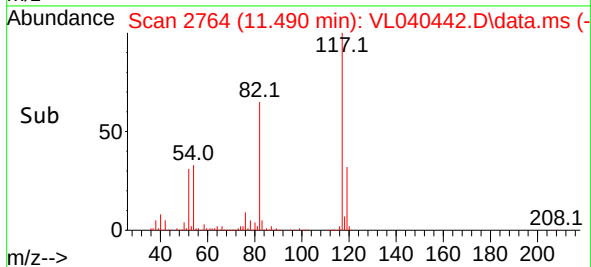
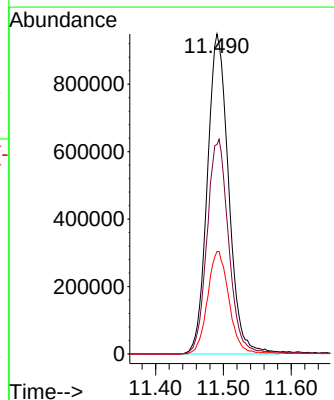
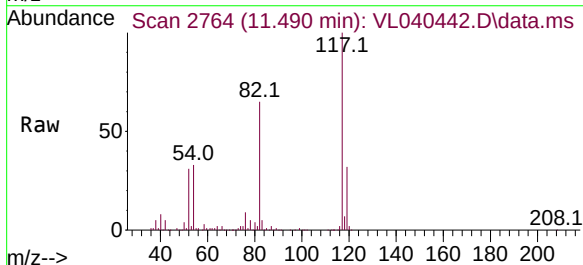
Instrument :
MSVOA_L
ClientSampleId :
SG-1

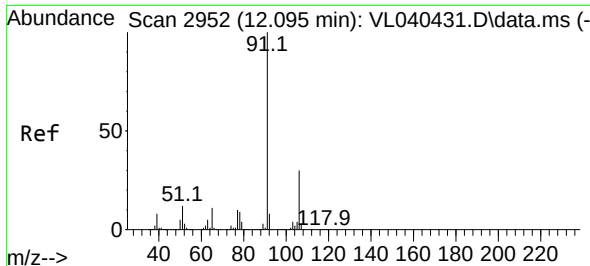
Tgt Ion: 91 Resp: 96694
Ion Ratio Lower Upper
91 100
92 0.0 49.1 73.7#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.490 min Scan# 2764
Delta R.T. -0.000 min
Lab File: VL040442.D
Acq: 16 May 2023 17:43

Tgt Ion: 117 Resp: 2071804
Ion Ratio Lower Upper
117 100
82 69.2 52.5 78.7
119 32.6 24.0 36.0





#58

Ethyl Benzene

Concen: 0.043 ppbv

RT: 12.114 min Scan# 2952

Delta R.T. 0.003 min

Lab File: VL040442.D

Acq: 16 May 2023 17:43

Instrument :

MSVOA_L

ClientSampleId :

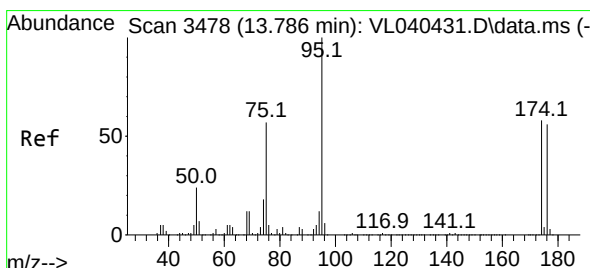
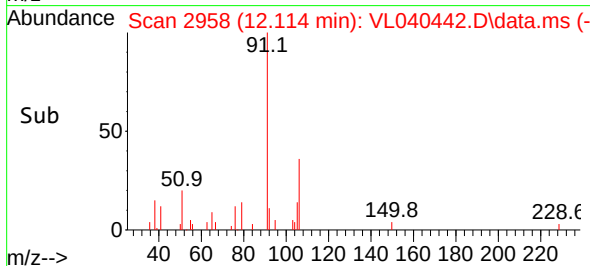
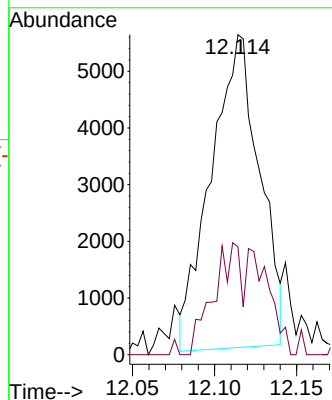
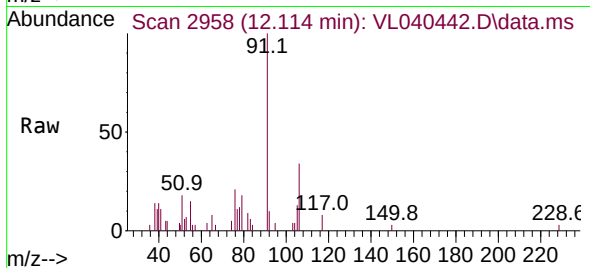
SG-1

Tgt Ion: 91 Resp: 11371

Ion Ratio Lower Upper

91 100

106 38.5 23.8 35.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.125 ppbv

RT: 13.802 min Scan# 3483

Delta R.T. 0.003 min

Lab File: VL040442.D

Acq: 16 May 2023 17:43

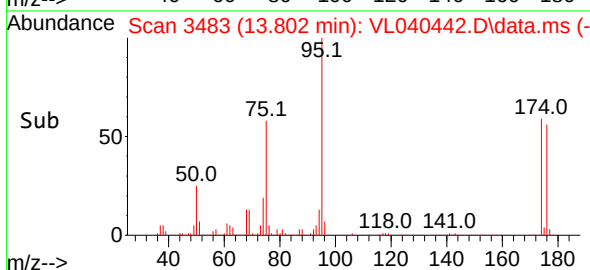
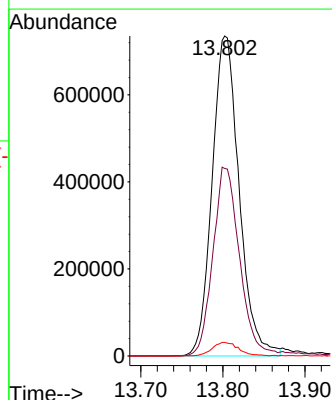
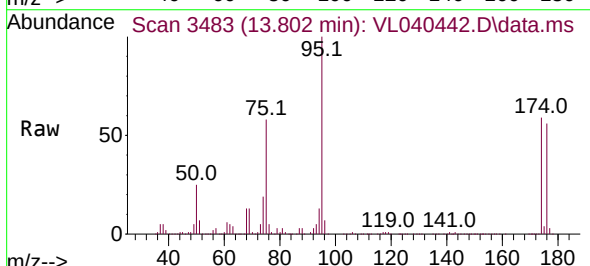
Tgt Ion: 95 Resp: 1686659

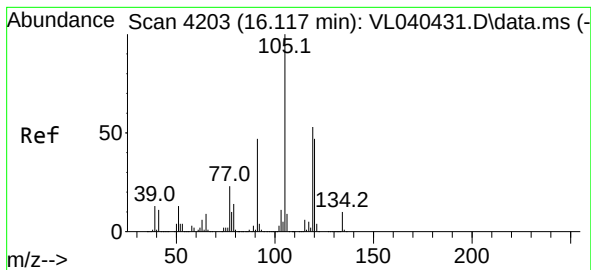
Ion Ratio Lower Upper

95 100

174 59.3 47.0 70.6

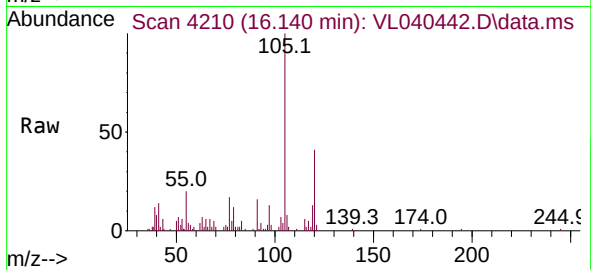
175 4.3 3.4 5.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.195 ppbv
 RT: 16.140 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL040442.D
 Acq: 16 May 2023 17:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1



Tgt Ion:	105	Resp:	53155
Ion	Ratio	Lower	Upper
105	100		
120	41.8	38.1	57.1
91	16.4	40.2	60.2#
77	16.6	19.0	28.4#

