

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040448.D
 Acq On : 16 May 2023 21:53
 Operator : SY/MD
 Sample : 02793-02DL 80X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

Quant Time: May 17 05:18:10 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	5.208	49	974518	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2458673	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.491	117	2196971	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.806	95	1807321	10.231	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%

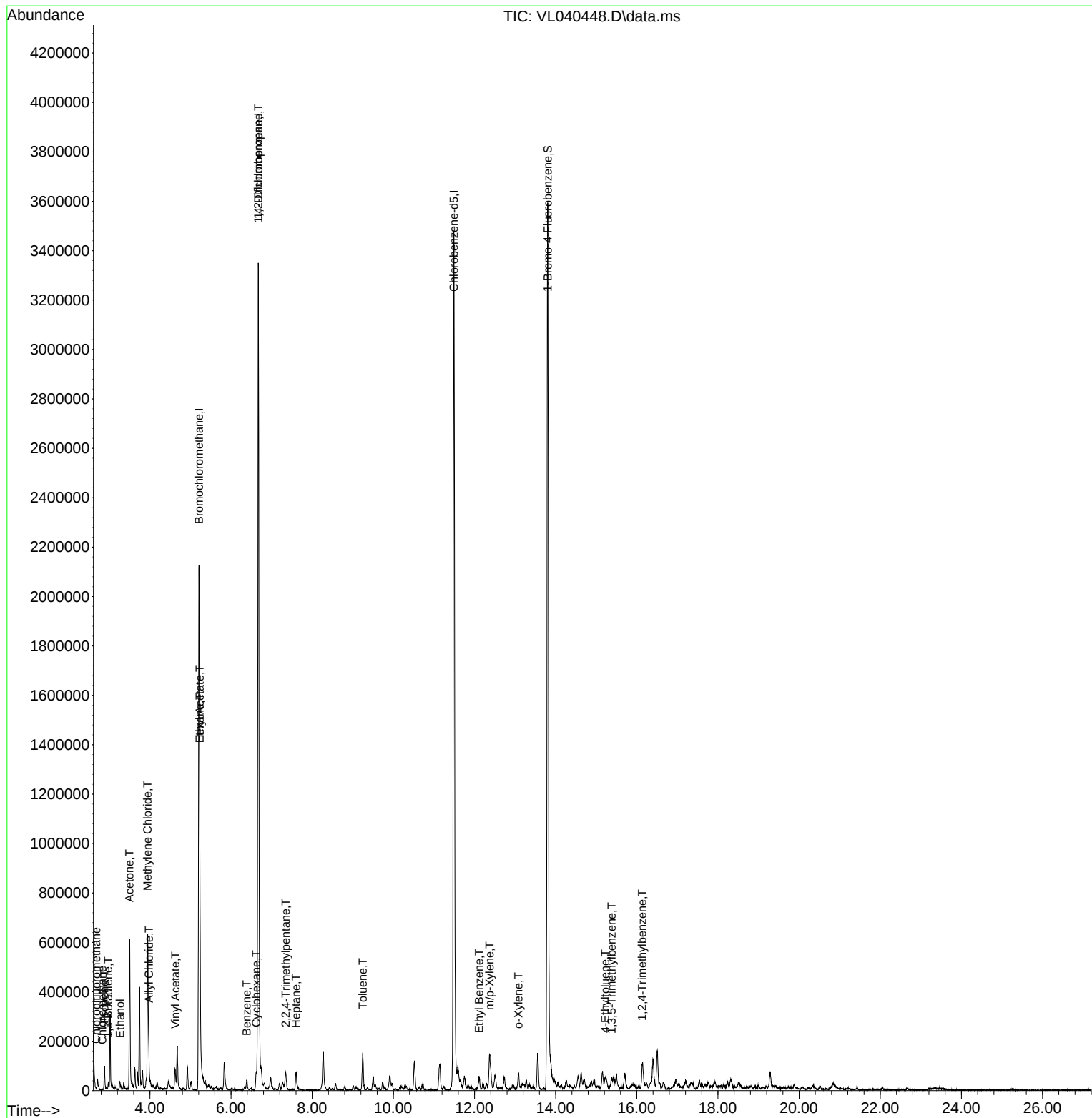
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.677	51	5523	0.044	ppbv	100
4) Chloromethane	2.825	50	3281	0.042	ppbv #	80
9) Propene	2.877	41	23342	0.477	ppbv	97
10) Heptane	7.600	43	22257	0.197	ppbv	99
13) Ethanol	3.263	45	25931	6.988	ppbv	69
15) Acetone	3.497	43	240237	1.949	ppbv #	67
16) 1,3-Butadiene	2.973	39	7686	0.136	ppbv #	61
20) Methylene Chloride	3.944	84	213176	3.882	ppbv	96
21) Allyl Chloride	3.973	41	8931	0.113	ppbv #	19
23) Vinyl Acetate	4.629	43	5842	0.171	ppbv #	1
25) Ethyl Acetate	5.227	43	144119	0.621	ppbv #	76
26) Hexane	5.227	57	207992	2.161	ppbv #	36
30) Cyclohexane	6.619	84	10633	0.136	ppbv #	15
36) Benzene	6.385	78	17726	0.089	ppbv	93
39) 1,2-Dichloropropane	6.671	63	642326	8.212	ppbv #	23
44) 2,2,4-Trimethylpentane	7.346	57	19824	0.060	ppbv #	1
53) Toluene	9.243	91	107934	0.512	ppbv	97
58) Ethyl Benzene	12.114	91	21160	0.076	ppbv #	83
59) m/p-Xylene	12.372	91	131641	0.519	ppbv	92
60) o-Xylene	13.085	91	45964	0.190	ppbv	93
72) 4-Ethyltoluene	15.220	105	16254	0.059	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.378	105	21231	0.085	ppbv #	84
74) 1,2,4-Trimethylbenzene	16.133	105	31669	0.110	ppbv #	66

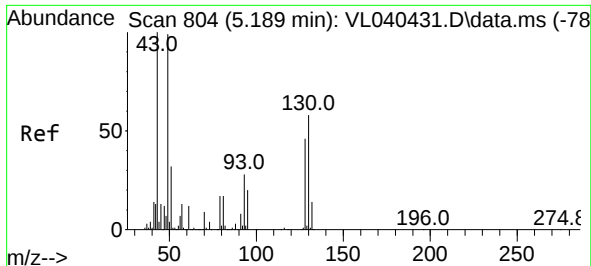
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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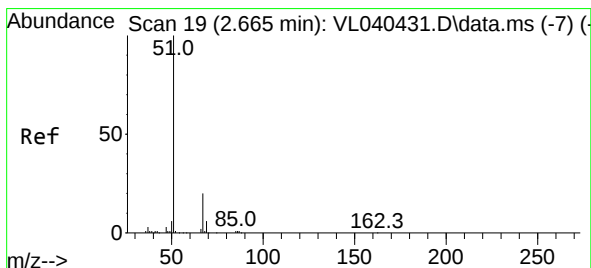
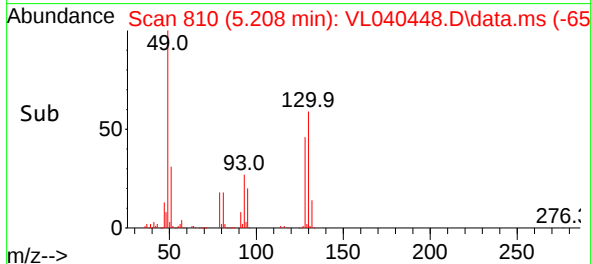
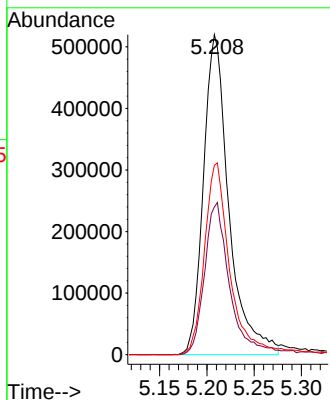
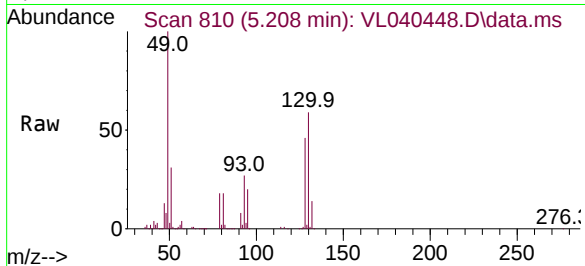




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

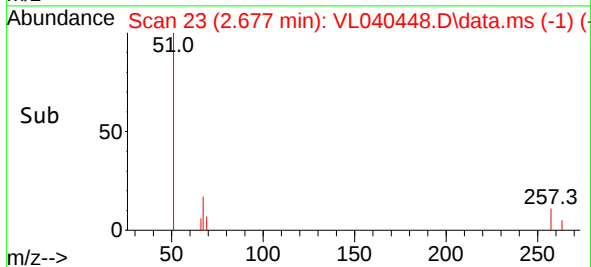
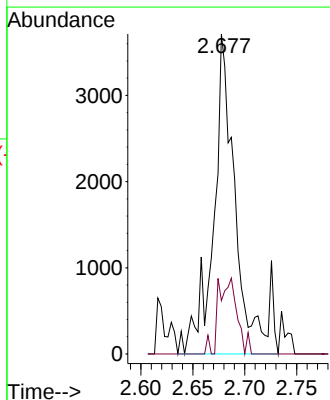
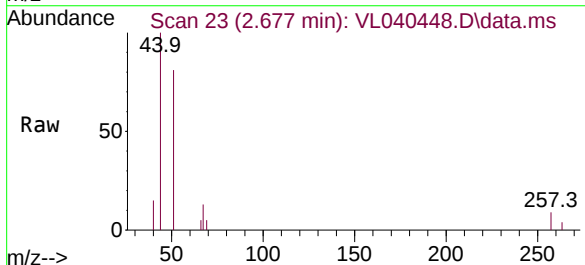
Instrument :
MSVOA_L
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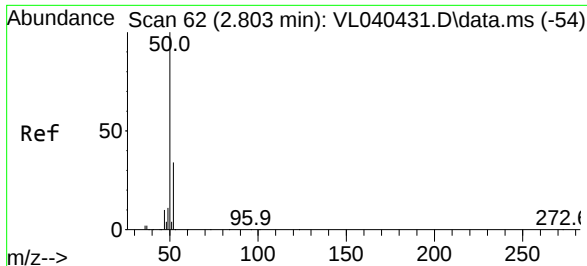
Tgt Ion: 49 Resp: 974518
Ion Ratio Lower Upper
49 100
128 48.3 24.3 72.8
130 61.6 30.2 90.6



#3
Chlorodifluoromethane
Concen: 0.044 ppbv
RT: 2.677 min Scan# 23
Delta R.T. 0.003 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

Tgt Ion: 51 Resp: 5523
Ion Ratio Lower Upper
51 100
67 19.7 15.8 23.6

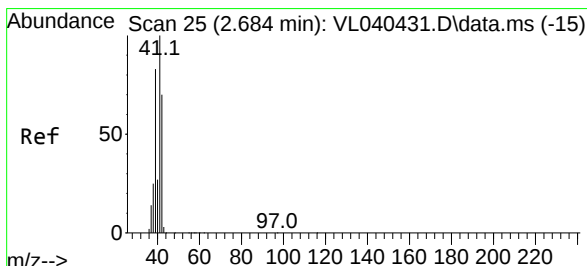
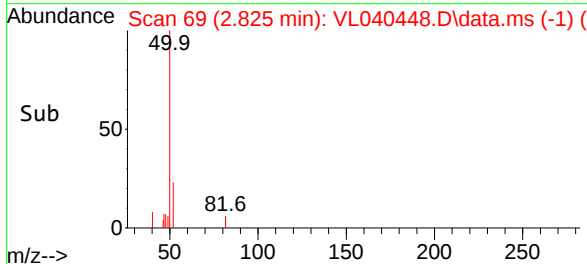
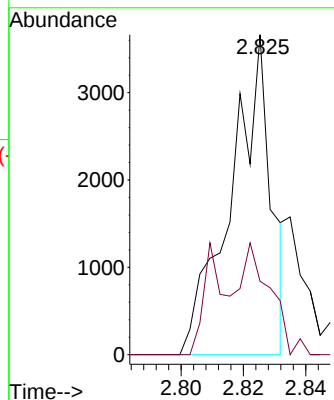
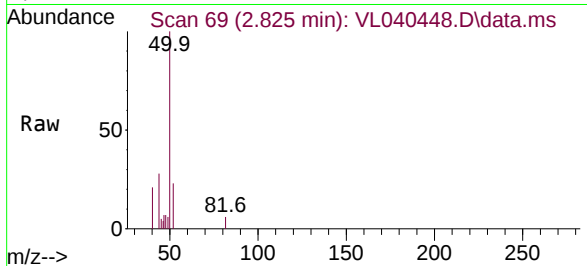




#4
Chloromethane
Concen: 0.042 ppbv
RT: 2.825 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

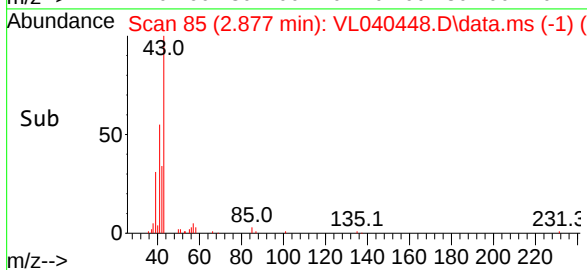
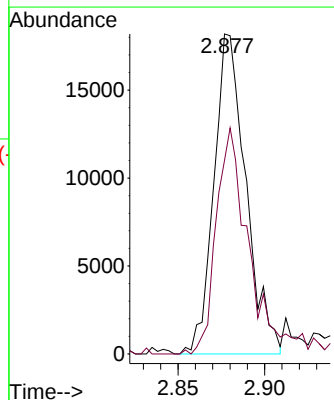
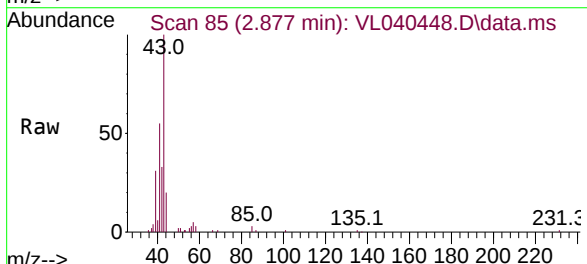
Instrument :
MSVOA_L
ClientSampleId :
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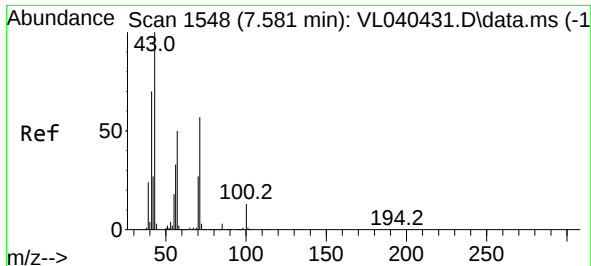
Tgt Ion: 50 Resp: 3281
Ion Ratio Lower Upper
50 100
52 23.0 27.6 41.4#



#9
Propene
Concen: 0.477 ppbv
RT: 2.877 min Scan# 85
Delta R.T. 0.183 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

Tgt Ion: 41 Resp: 23342
Ion Ratio Lower Upper
41 100
42 73.4 56.6 84.8





#10

Heptane

Concen: 0.197 ppbv

RT: 7.600 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040448.D

Acq: 16 May 2023 21:53

Instrument :

MSVOA_L

ClientSampleId :

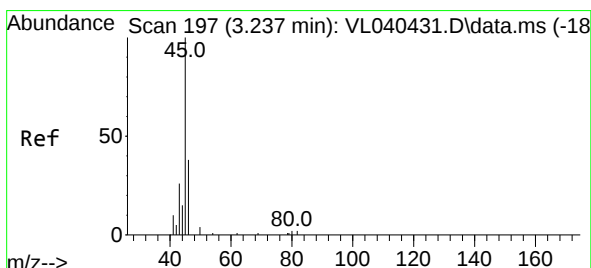
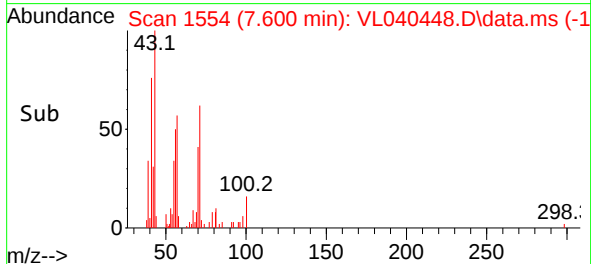
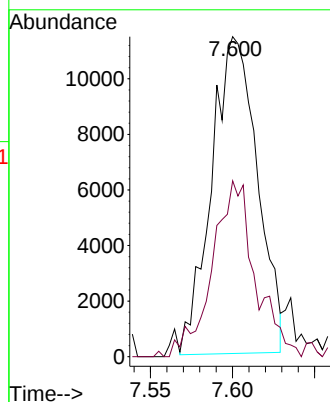
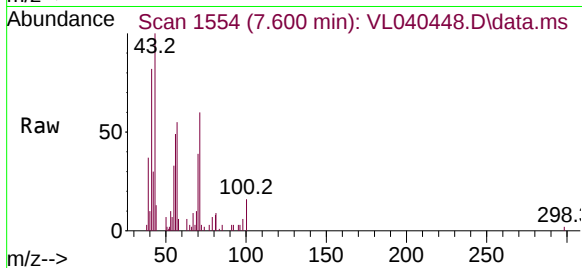
SG-2DL

Tgt Ion: 43 Resp: 22257

Ion Ratio Lower Upper

43 100

57 53.2 42.2 63.2



#13

Ethanol

Concen: 6.988 ppbv

RT: 3.263 min Scan# 205

Delta R.T. 0.013 min

Lab File: VL040448.D

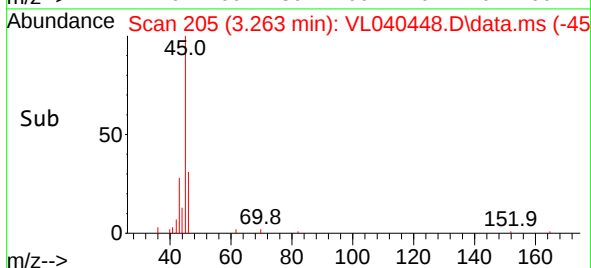
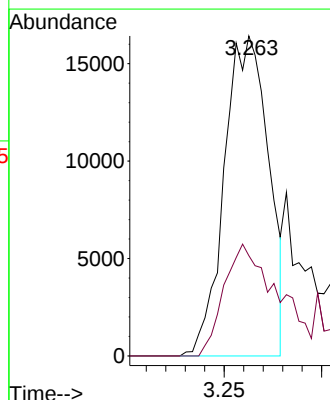
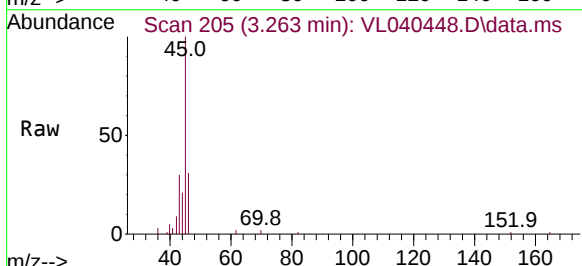
Acq: 16 May 2023 21:53

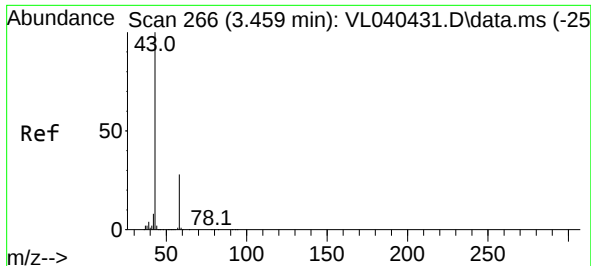
Tgt Ion: 45 Resp: 25931

Ion Ratio Lower Upper

45 100

46 50.5 13.2 52.8

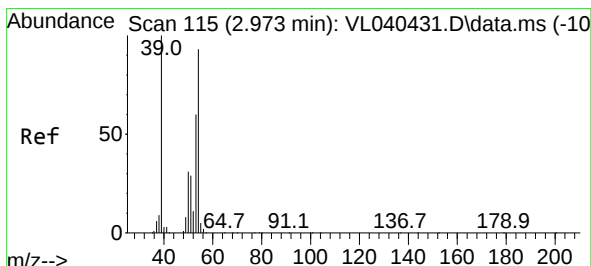
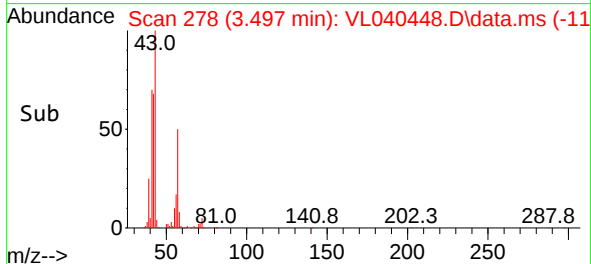
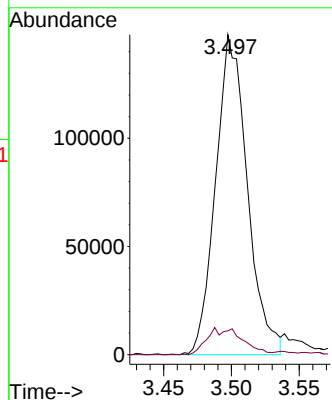
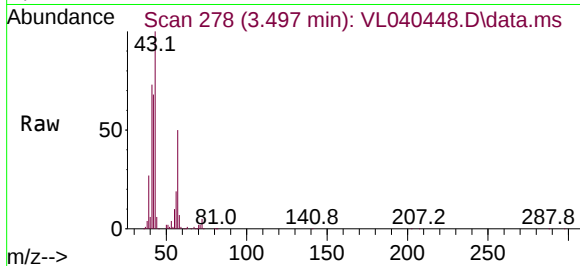




#15
Acetone
Concen: 1.949 ppbv
RT: 3.497 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

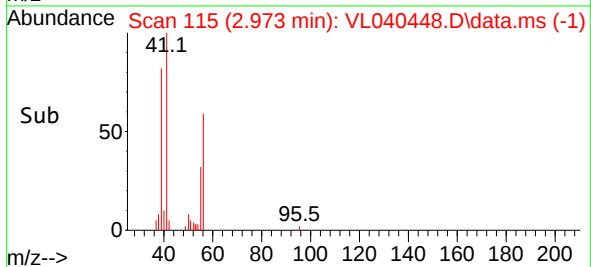
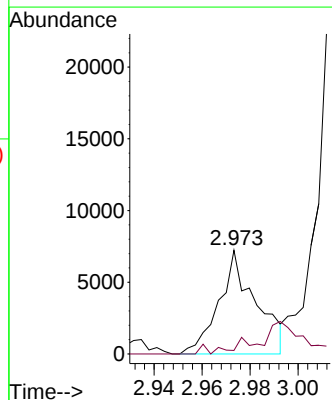
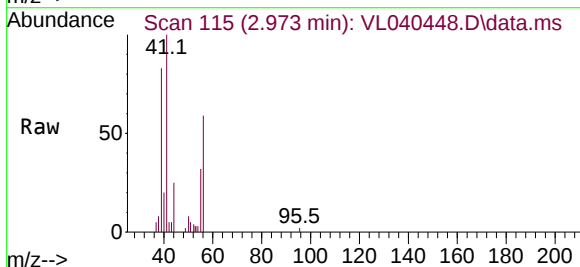
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

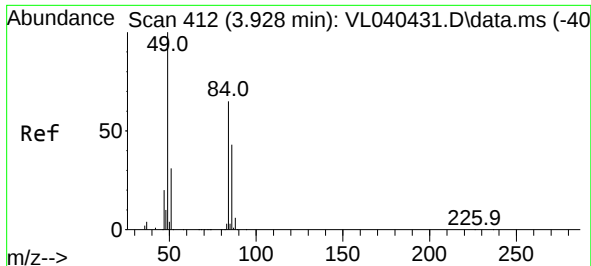
Tgt Ion: 43 Resp: 240237
Ion Ratio Lower Upper
43 100
58 10.5 22.2 33.4#



#16
1,3-Butadiene
Concen: 0.136 ppbv
RT: 2.973 min Scan# 115
Delta R.T. -0.013 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

Tgt Ion: 39 Resp: 7686
Ion Ratio Lower Upper
39 100
54 49.9 68.9 103.3#

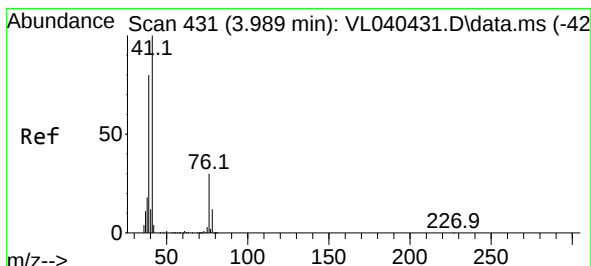
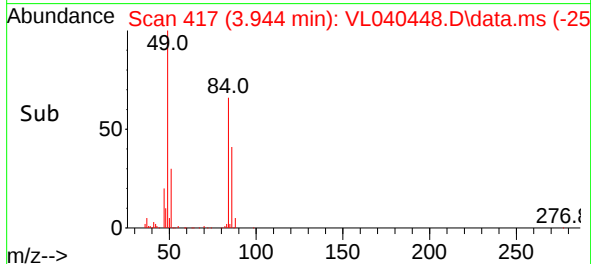
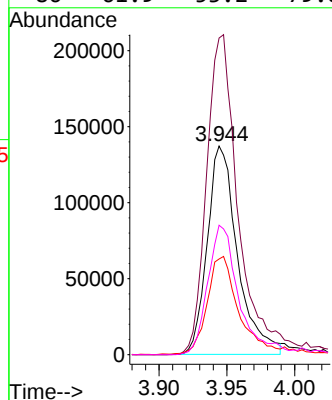
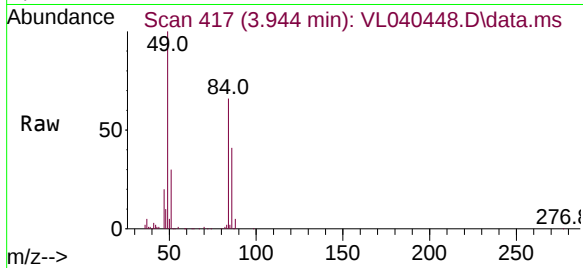




#20
Methylene Chloride
Concen: 3.882 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.007 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

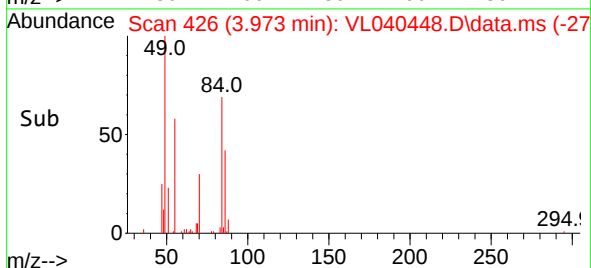
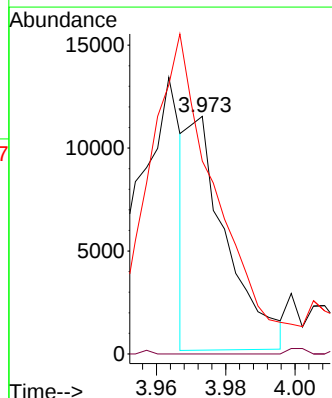
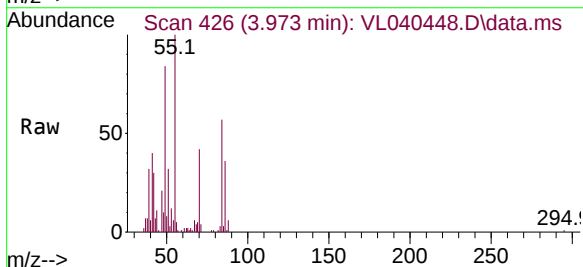
Instrument :
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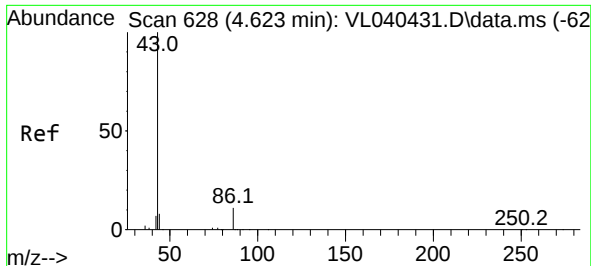
Tgt Ion: 84	Resp: 213176		
Ion	Ratio	Lower	Upper
84	100		
49	151.5	123.7	185.5
51	45.3	38.6	57.8
86	61.9	53.2	79.8



#21
Allyl Chloride
Concen: 0.113 ppbv
RT: 3.973 min Scan# 426
Delta R.T. -0.029 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

Tgt Ion: 41	Resp: 8931
Ion Ratio	Lower Upper
41 100	
76 0.0	25.3 37.9#
39 0.0	63.5 95.3#

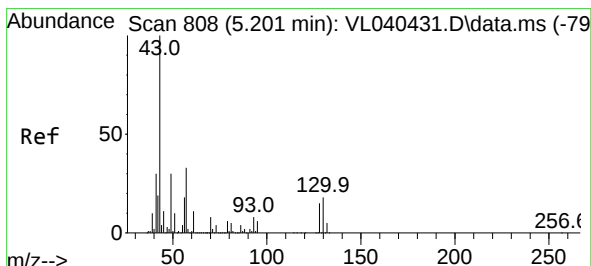
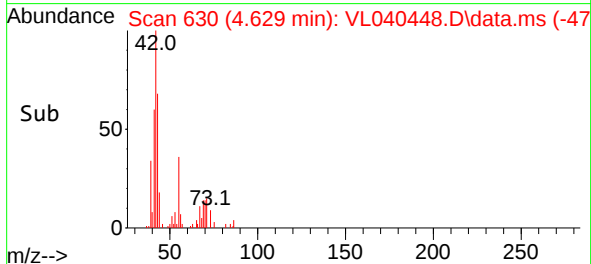
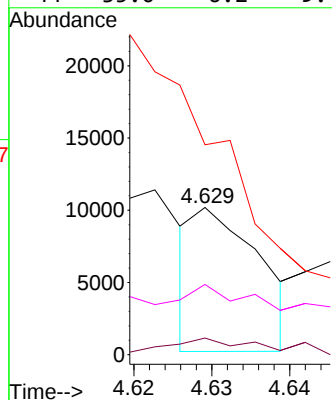
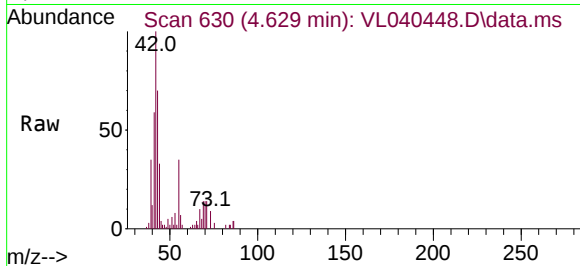




#23
 Vinyl Acetate
 Concen: 0.171 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL040448.D
 Acq: 16 May 2023 21:53

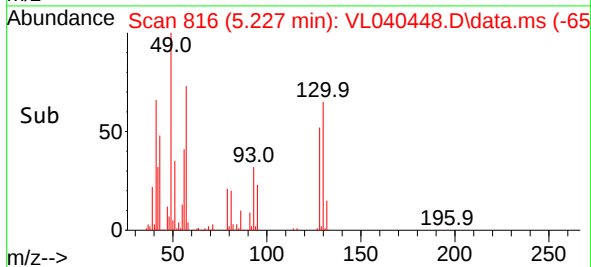
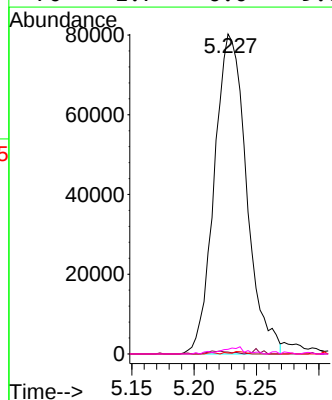
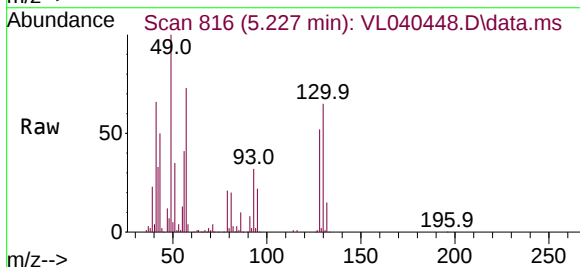
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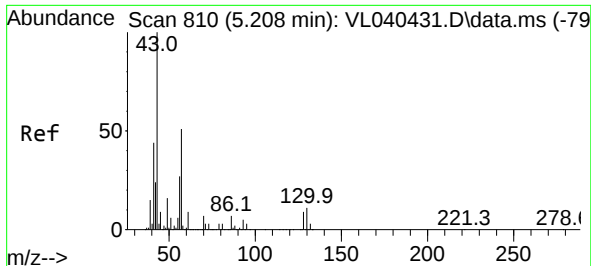
Tgt Ion:	43	Resp:	5842
Ion	Ratio	Lower	Upper
43	100		
86	16.8	5.4	8.2#
42	139.6	7.8	11.6#
44	35.0	6.2	9.4#



#25
 Ethyl Acetate
 Concen: 0.621 ppbv
 RT: 5.227 min Scan# 816
 Delta R.T. 0.013 min
 Lab File: VL040448.D
 Acq: 16 May 2023 21:53

Tgt Ion:	43	Resp:	144119
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.6	13.0#
61	0.4	8.6	12.8#
70	1.7	6.0	9.0#

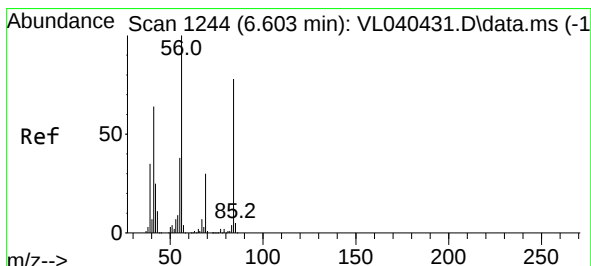
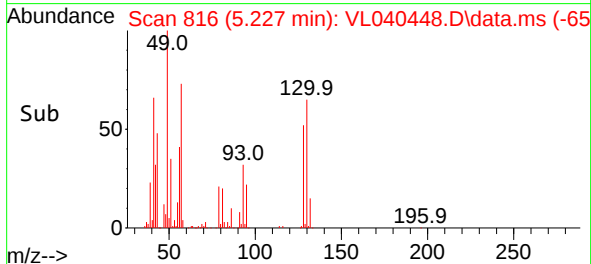
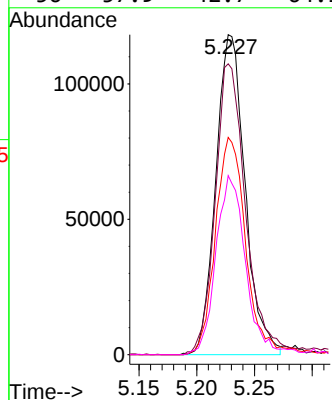
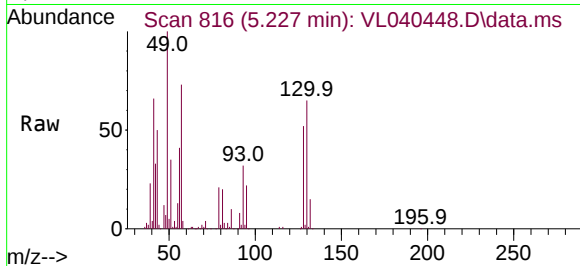




#26
Hexane
Concen: 2.161 ppbv
RT: 5.227 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

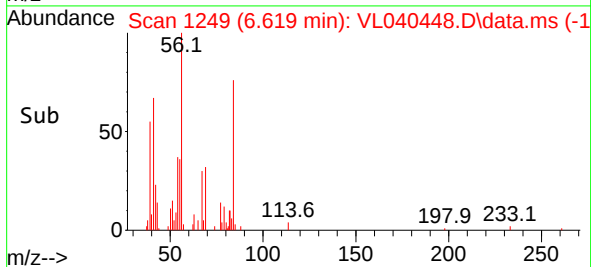
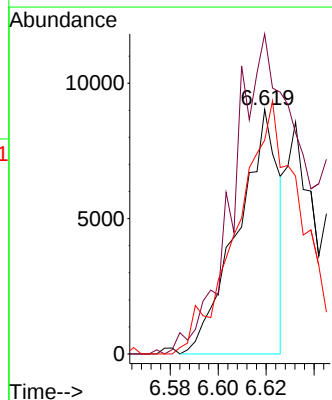
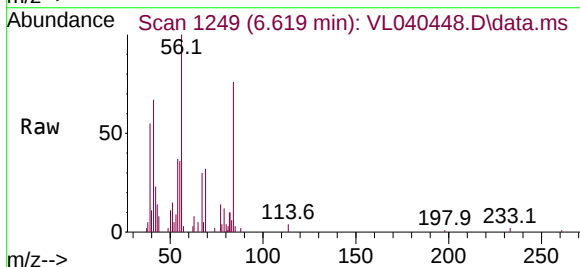
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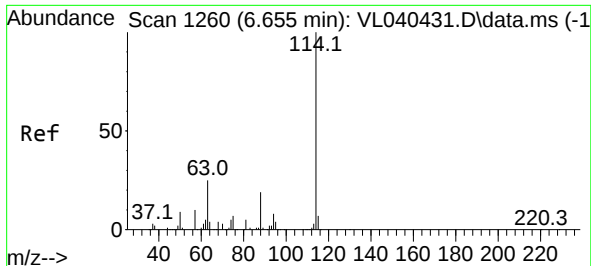
Tgt Ion: 57 Resp: 207992
Ion Ratio Lower Upper
57 100
41 96.7 75.1 112.7
43 71.8 194.4 291.6#
56 57.9 42.7 64.1



#30
Cyclohexane
Concen: 0.136 ppbv
RT: 6.619 min Scan# 1249
Delta R.T. 0.003 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

Tgt Ion: 84 Resp: 10633
Ion Ratio Lower Upper
84 100
56 213.3 108.2 162.4#
41 189.1 66.9 100.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1176

Delta R.T. 0.003 min

Lab File: VL040448.D

Acq: 16 May 2023 21:53

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

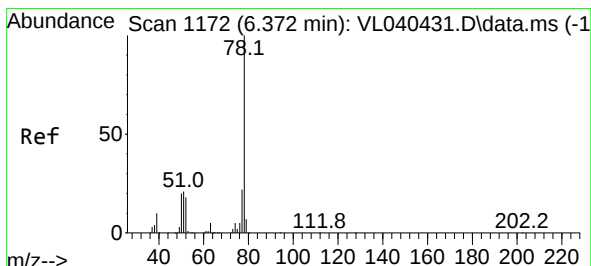
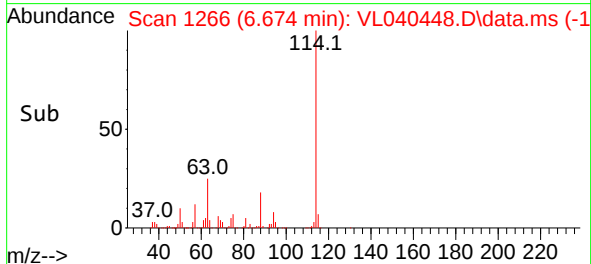
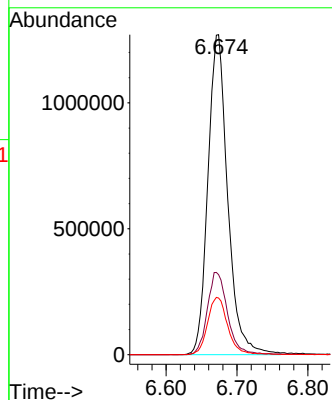
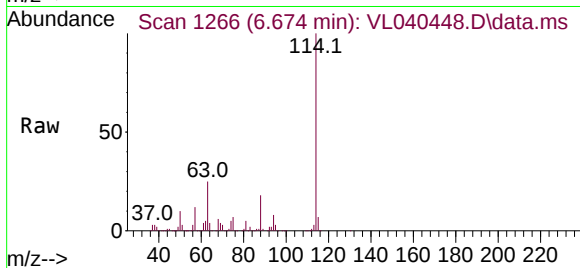
Tgt Ion:114 Resp: 2458673

Ion Ratio Lower Upper

114 100

63 26.6 21.0 31.6

88 18.4 14.6 22.0



#36

Benzene

Concen: 0.089 ppbv

RT: 6.385 min Scan# 1176

Delta R.T. 0.000 min

Lab File: VL040448.D

Acq: 16 May 2023 21:53

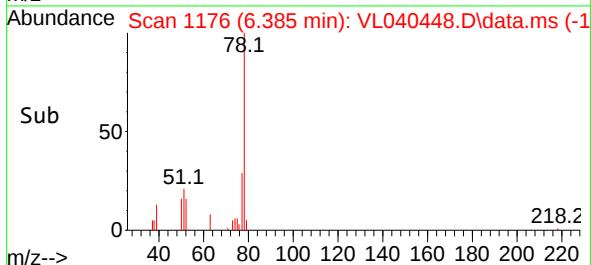
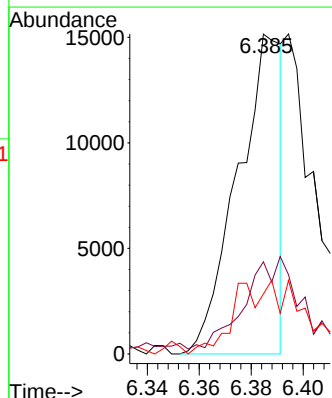
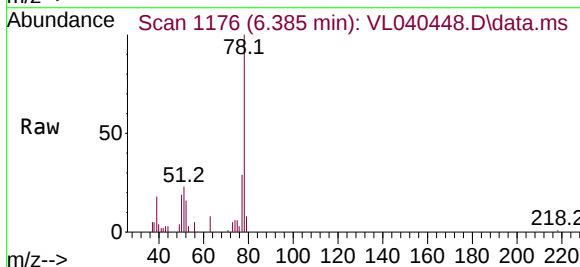
Tgt Ion: 78 Resp: 17726

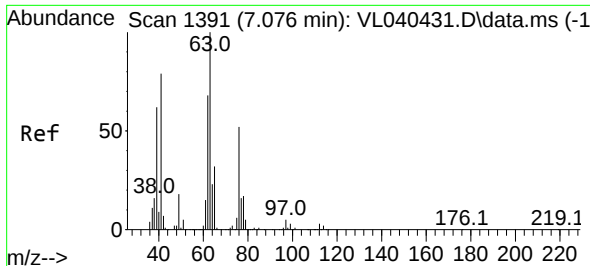
Ion Ratio Lower Upper

78 100

77 25.4 17.7 26.5

50 16.5 15.8 23.8





#39

1,2-Dichloropropane

Concen: 8.212 ppbv

RT: 6.671 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL040448.D

Acq: 16 May 2023 21:53

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

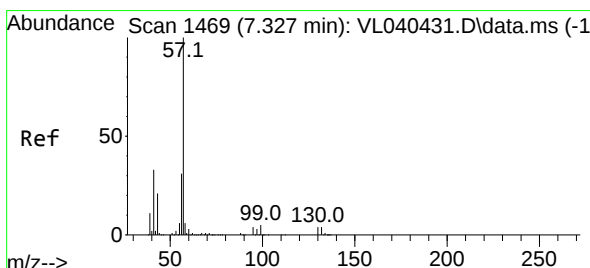
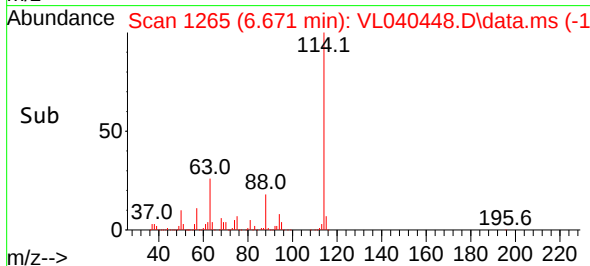
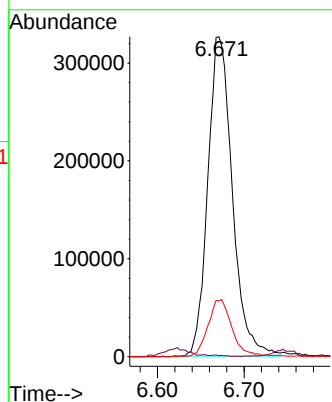
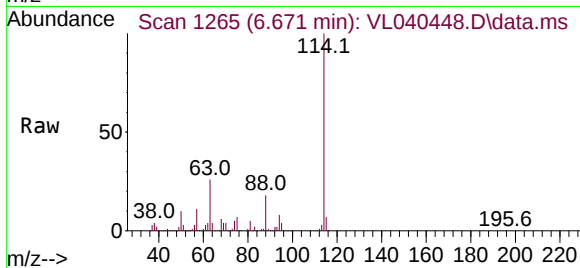
Tgt Ion: 63 Resp: 642326

Ion Ratio Lower Upper

63 100

41 0.0 63.3 94.9#

62 17.3 54.2 81.4#



#44

2,2,4-Trimethylpentane

Concen: 0.060 ppbv

RT: 7.346 min Scan# 1475

Delta R.T. 0.003 min

Lab File: VL040448.D

Acq: 16 May 2023 21:53

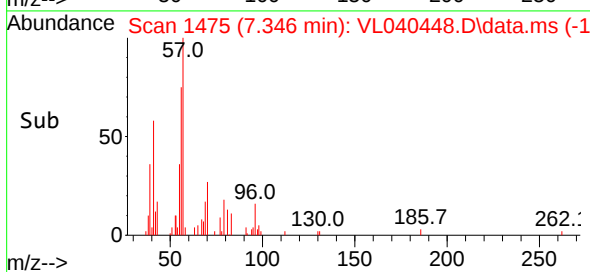
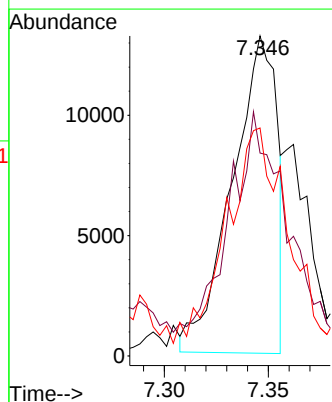
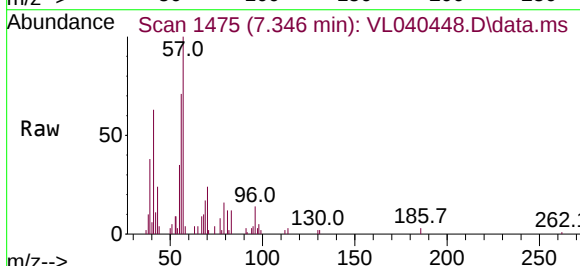
Tgt Ion: 57 Resp: 19824

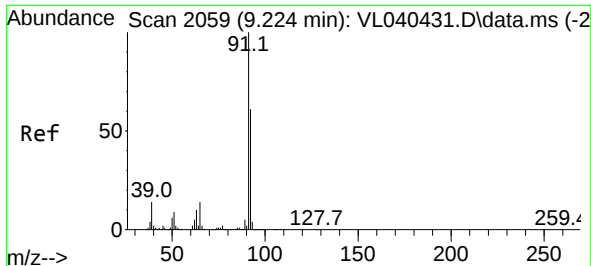
Ion Ratio Lower Upper

57 100

41 111.8 27.0 40.4#

56 103.8 25.0 37.4#

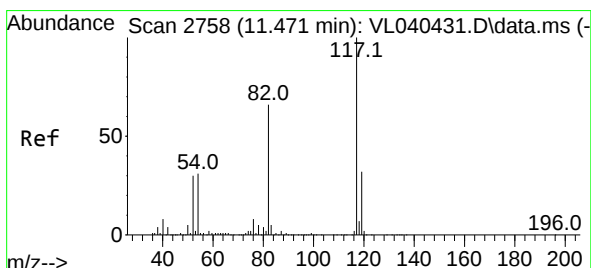
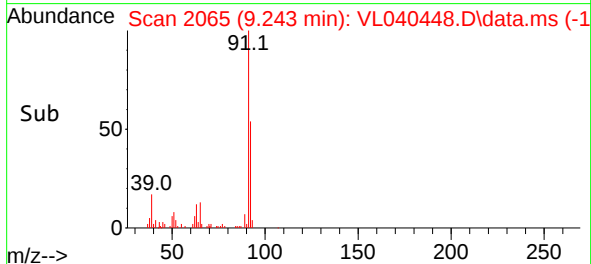
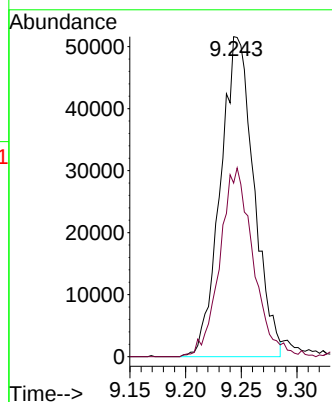
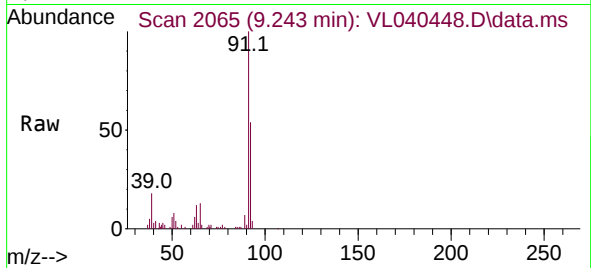




#53
Toluene
Concen: 0.512 ppbv
RT: 9.243 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

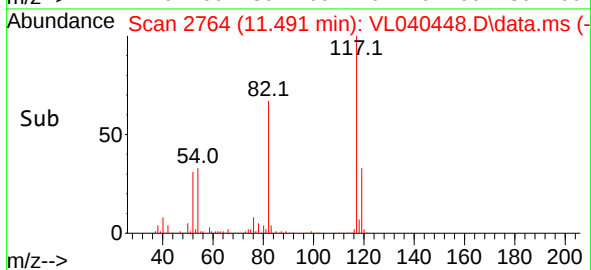
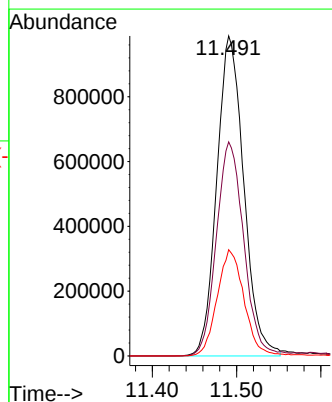
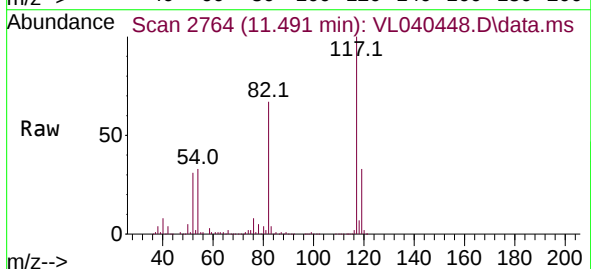
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

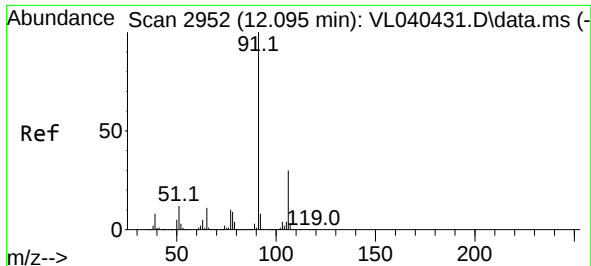
Tgt Ion: 91 Resp: 107934
Ion Ratio Lower Upper
91 100
92 59.0 49.1 73.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.491 min Scan# 2764
Delta R.T. 0.000 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

Tgt Ion: 117 Resp: 2196971
Ion Ratio Lower Upper
117 100
82 69.6 52.5 78.7
119 33.7 24.0 36.0

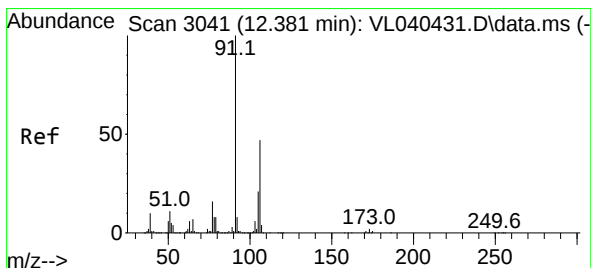
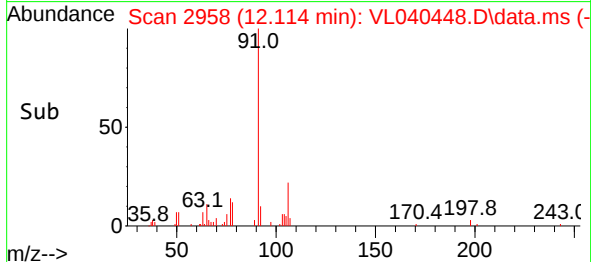
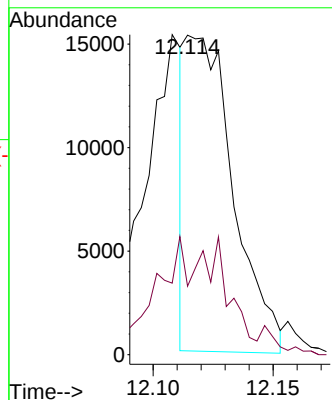
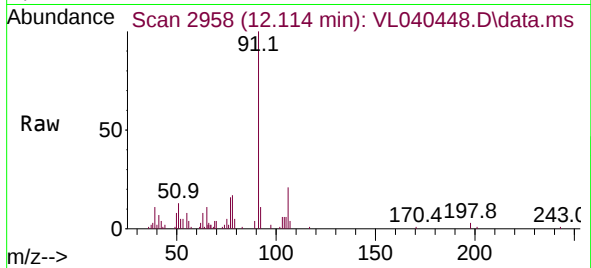




#58
Ethyl Benzene
Concen: 0.076 ppbv
RT: 12.114 min Scan# 2952
Delta R.T. 0.003 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

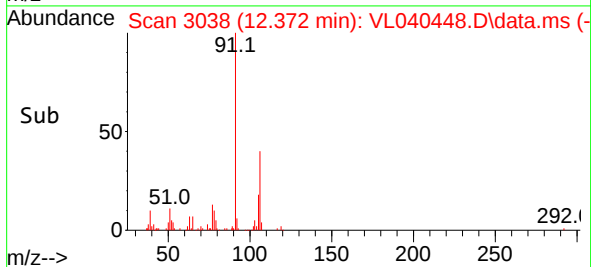
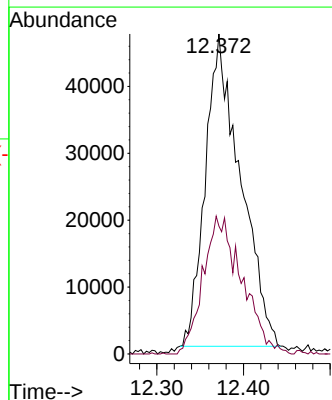
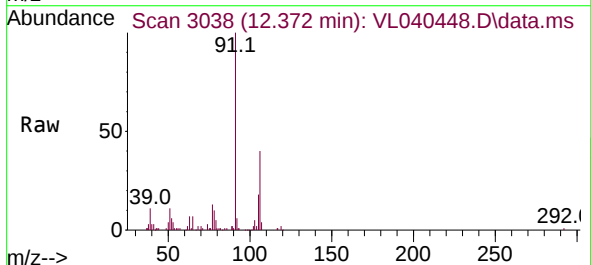
Instrument :
MSVOA_1
ClientSampleId :
SG-2DL

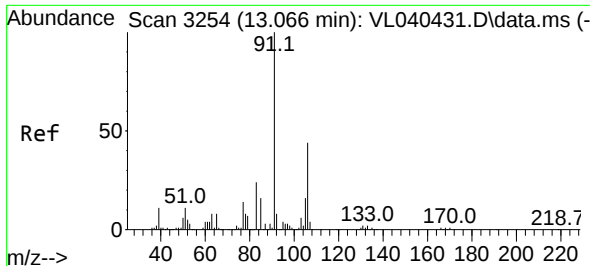
Tgt Ion: 91 Resp: 21160
Ion Ratio Lower Upper
91 100
106 20.5 23.8 35.8#



#59
m/p-Xylene
Concen: 0.519 ppbv
RT: 12.372 min Scan# 3038
Delta R.T. -0.026 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

Tgt Ion: 91 Resp: 131641
Ion Ratio Lower Upper
91 100
106 48.6 34.9 52.3

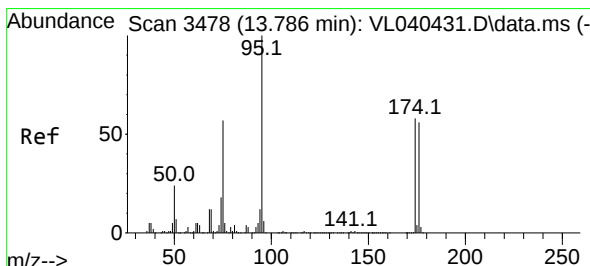
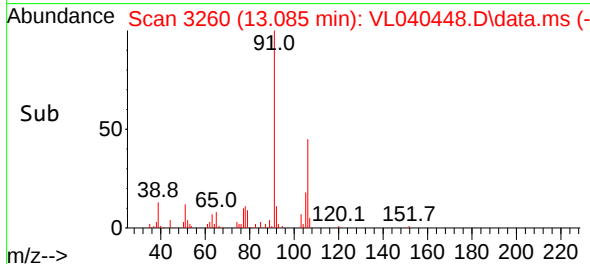
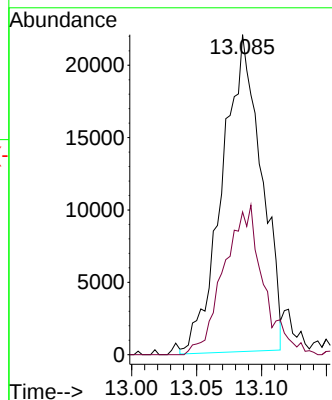
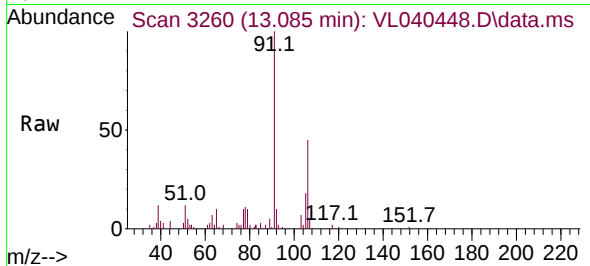




#60
o-Xylene
Concen: 0.190 ppbv
RT: 13.085 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

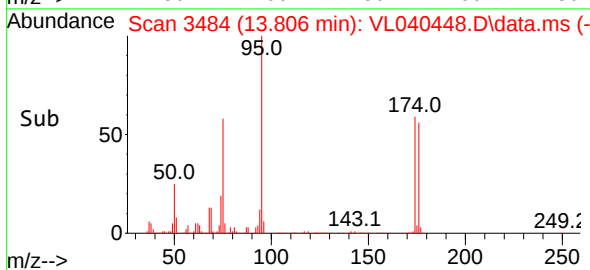
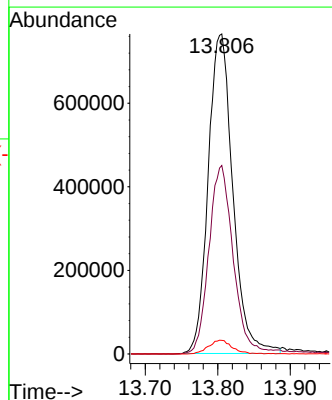
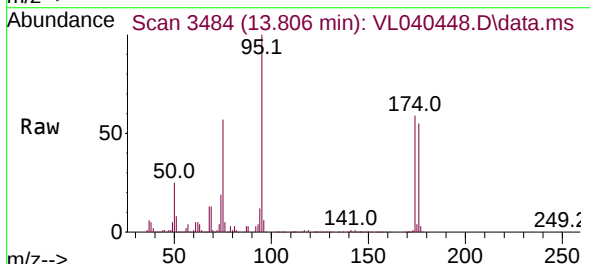
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

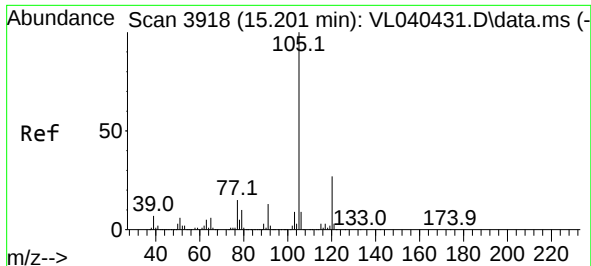
Tgt Ion: 91 Resp: 45964
Ion Ratio Lower Upper
91 100
106 48.0 21.8 65.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.231 ppbv
RT: 13.806 min Scan# 3484
Delta R.T. 0.007 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

Tgt Ion: 95 Resp: 1807321
Ion Ratio Lower Upper
95 100
174 59.7 47.0 70.6
175 4.2 3.4 5.0

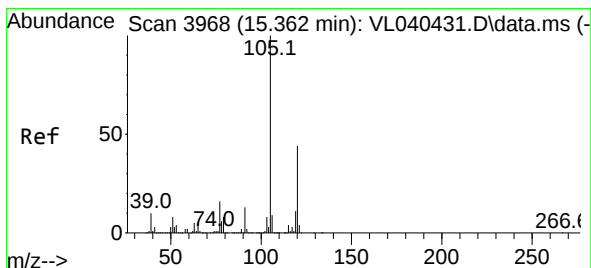
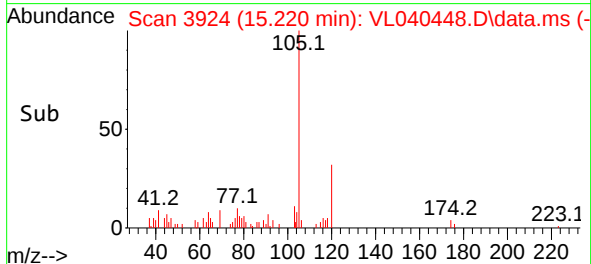
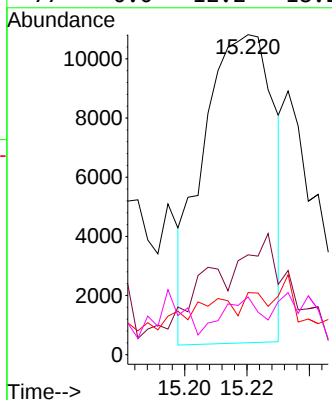
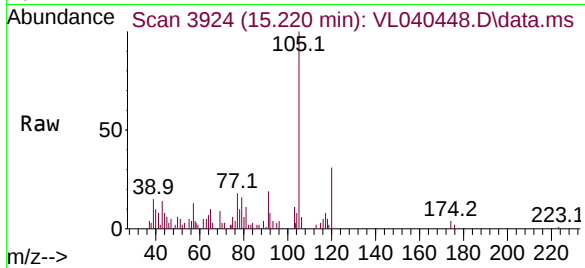




#72
4-Ethyltoluene
Concen: 0.059 ppbv
RT: 15.220 min Scan# 3918
Delta R.T. 0.000 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

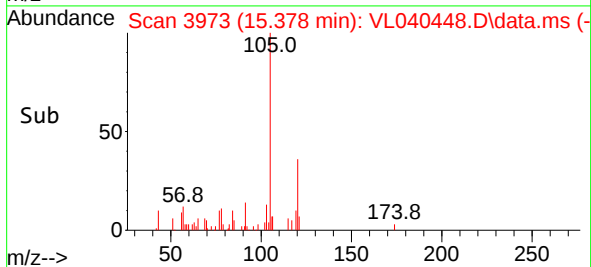
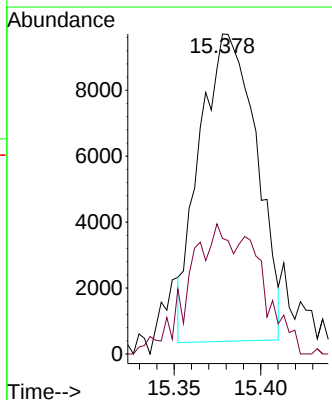
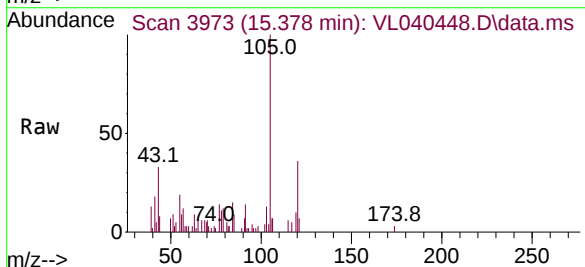
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

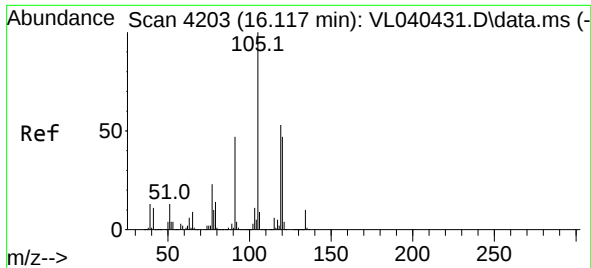
Tgt Ion:105 Resp: 16254
Ion Ratio Lower Upper
105 100
120 0.0 23.8 35.8#
91 0.0 11.0 16.4#
77 0.0 12.2 18.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.085 ppbv
RT: 15.378 min Scan# 3973
Delta R.T. 0.003 min
Lab File: VL040448.D
Acq: 16 May 2023 21:53

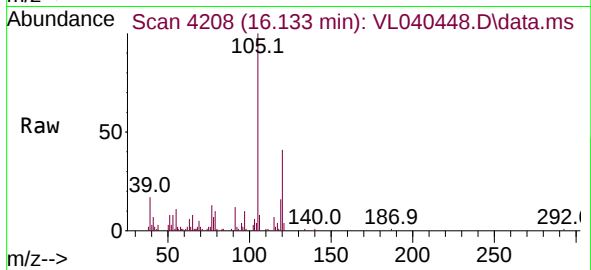
Tgt Ion:105 Resp: 21231
Ion Ratio Lower Upper
105 100
120 33.7 35.2 52.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.110 ppbv
 RT: 16.133 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL040448.D
 Acq: 16 May 2023 21:53

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL



Tgt Ion:	105	Resp:	31669
Ion	Ratio	Lower	Upper
105	100		
120	41.7	38.1	57.1
91	7.8	40.2	60.2#
77	11.3	19.0	28.4#

