

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122222\
 Data File : VL040069.D
 Acq On : 22 Dec 2022 15:48
 Operator : SY/MD
 Sample : N6181-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 23 06:29:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 20 04:50:21 2022
 Response via : Initial Calibration

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

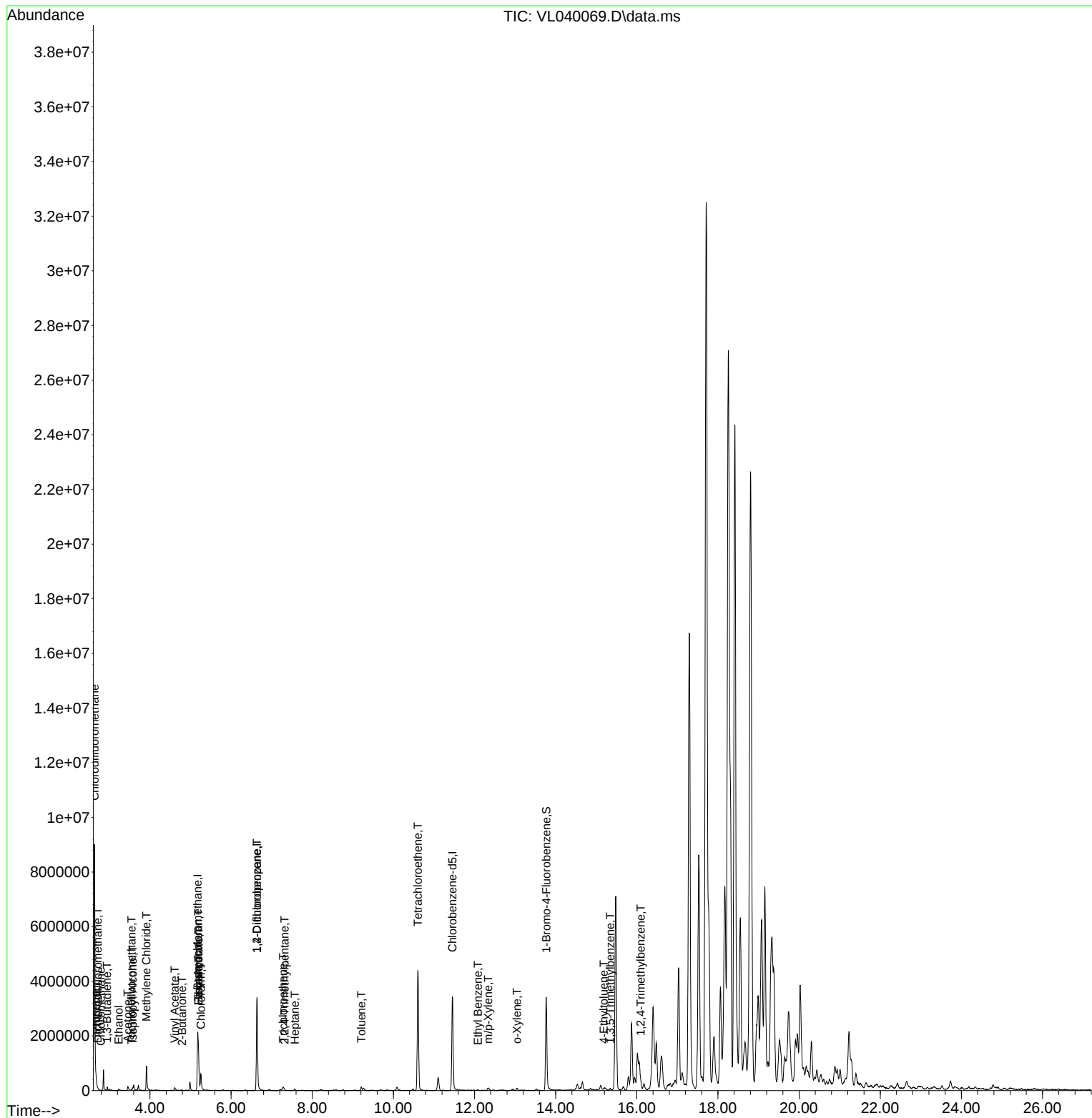
Internal Standards						
1) Bromochloromethane	5.176	49	890933	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2678419	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2327121	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1768979	9.951	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	15720	0.094	ppbv	88
3) Chlorodifluoromethane	2.636	51	4456592	33.903	ppbv #	58
4) Chloromethane	2.793	50	6159	0.075	ppbv #	74
9) Propene	2.677	41	20177	0.362	ppbv	93
10) Heptane	7.571	43	13980	0.103	ppbv #	26
11) Trichlorofluoromethane	3.546	101	24495	0.135	ppbv	86
13) Ethanol	3.230	45	49870	9.498	ppbv	82
15) Acetone	3.456	43	147323	1.069	ppbv #	89
16) 1,3-Butadiene	2.944	39	25869	0.432	ppbv #	19
19) Isopropyl Alcohol	3.578	45	90260	1.329	ppbv #	94
20) Methylene Chloride	3.915	84	303209	5.176	ppbv	95
23) Vinyl Acetate	4.613	43	145756	3.336	ppbv #	98
25) Ethyl Acetate	5.198	43	172178	0.721	ppbv #	79
26) Hexane	5.198	57	451251	4.498	ppbv #	34
29) Chloroform	5.256	83	382351	2.498	ppbv	99
34) 2-Butanone	4.793	43	13735	0.095	ppbv #	62
38) Trichloroethene	7.282	130	4350	0.035	ppbv #	59
39) 1,2-Dichloropropane	6.639	63	656984	7.327	ppbv #	23
41) Tetrahydrofuran	5.195	42	174467	1.924	ppbv #	47
44) 2,2,4-Trimethylpentane	7.317	57	22092	0.056	ppbv #	42
52) Tetrachloroethene	10.606	164	1109413	13.641	ppbv	96
53) Toluene	9.214	91	87515	0.330	ppbv	99
58) Ethyl Benzene	12.085	91	12323	0.037	ppbv	98
59) m/p-Xylene	12.336	91	54735	0.190	ppbv #	50
60) o-Xylene	13.047	91	37448	0.136	ppbv #	31
72) 4-Ethyltoluene	15.188	105	25298	0.083	ppbv #	83
73) 1,3,5-Trimethylbenzene	15.346	105	21043	0.076	ppbv	100
74) 1,2,4-Trimethylbenzene	16.098	105	189981	0.624	ppbv #	64

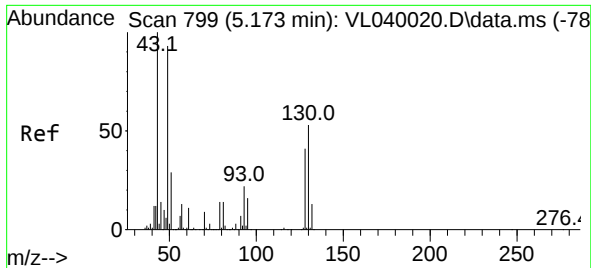
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Dec 23 06:29:16 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Dec 20 04:50:21 2022
Response via : Initial Calibration

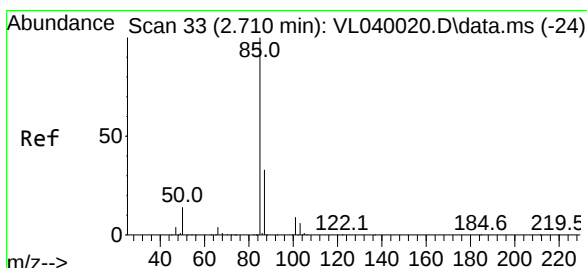
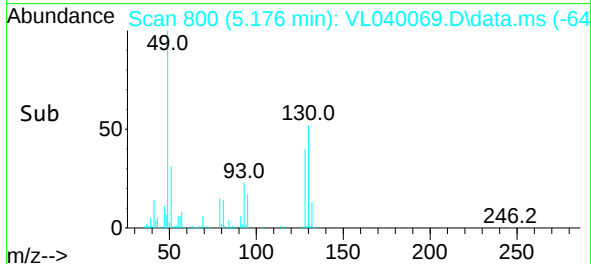
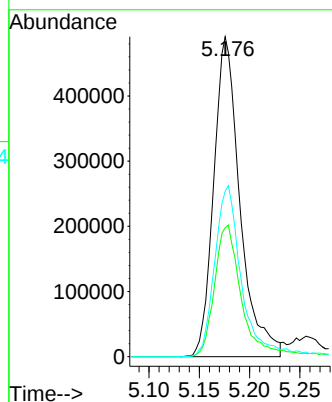
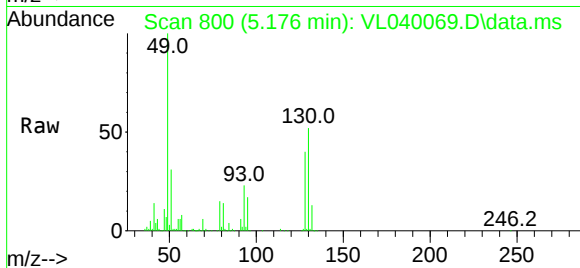




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.176 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VL040069.D
 Acq: 22 Dec 2022 15:48

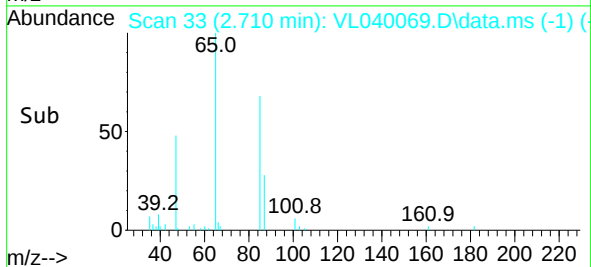
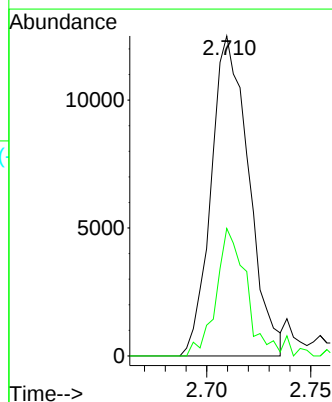
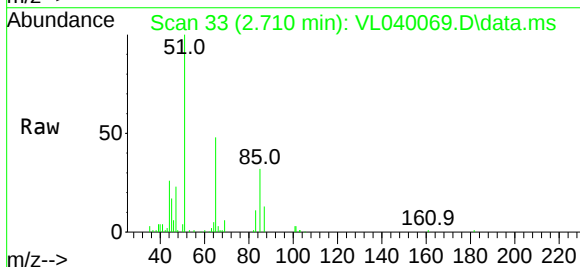
Instrument :
 MSVOA_L
 ClientSampleId :

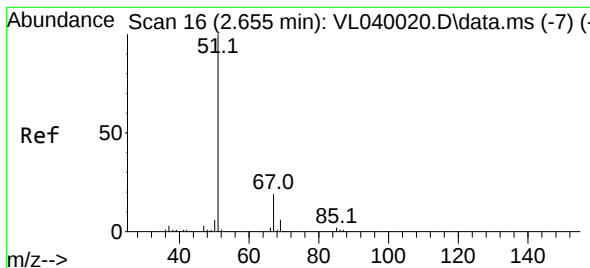
Tgt Ion: 49 Resp: 890933
 Ion Ratio Lower Upper
 49 100
 128 43.1 22.4 67.3
 130 55.9 28.9 86.8



#2
 Dichlorodifluoromethane
 Concen: 0.094 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. -0.000 min
 Lab File: VL040069.D
 Acq: 22 Dec 2022 15:48

Tgt Ion: 85 Resp: 15720
 Ion Ratio Lower Upper
 85 100
 87 39.8 26.6 40.0





#3

Chlorodifluoromethane

Concen: 33.903 ppbv

RT: 2.636 min Scan# 10

Delta R.T. -0.019 min

Lab File: VL040069.D

Acq: 22 Dec 2022 15:48

Instrument :

MSVOA_L

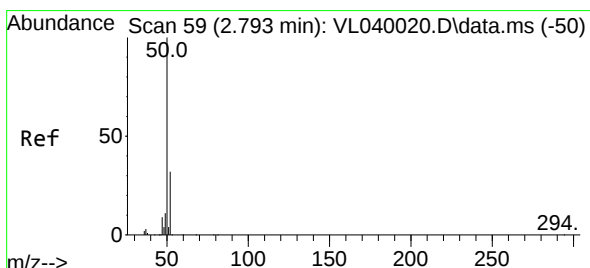
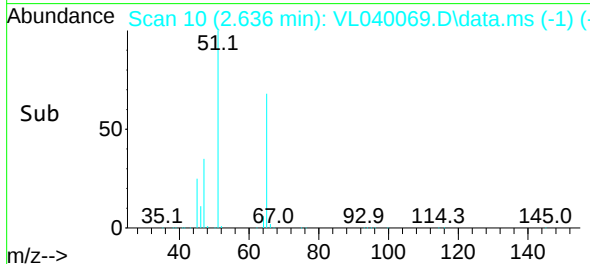
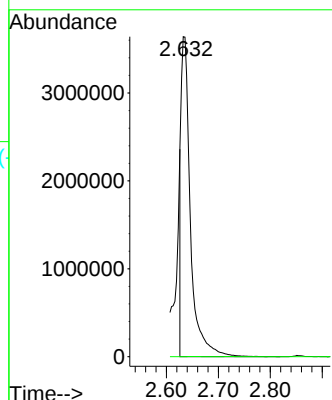
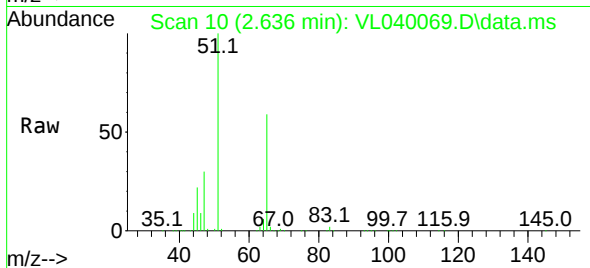
ClientSampleId :

Tgt Ion: 51 Resp: 4456592

Ion Ratio Lower Upper

51 100

67 0.1 15.3 22.9#



#4

Chloromethane

Concen: 0.075 ppbv

RT: 2.793 min Scan# 59

Delta R.T. -0.000 min

Lab File: VL040069.D

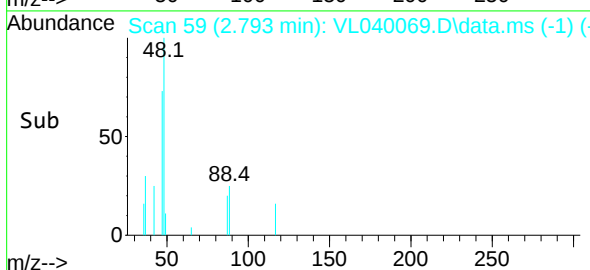
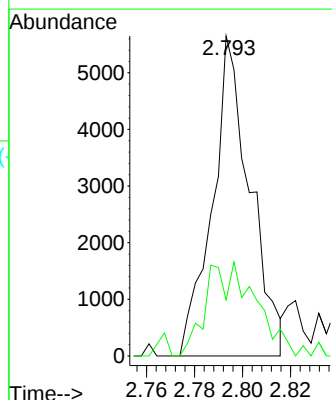
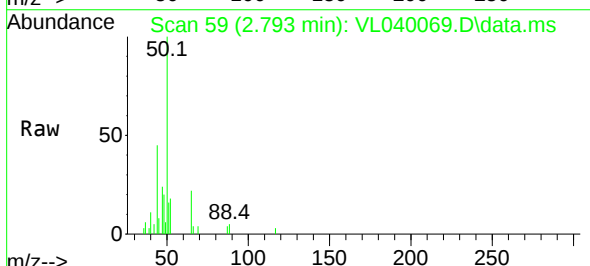
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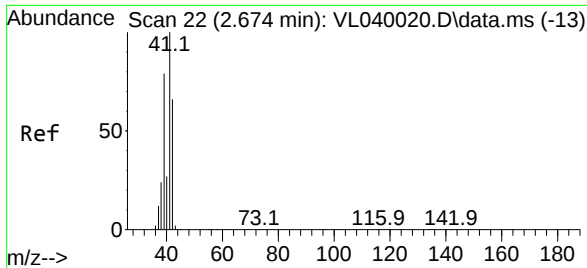
Tgt Ion: 50 Resp: 6159

Ion Ratio Lower Upper

50 100

52 17.5 25.5 38.3#

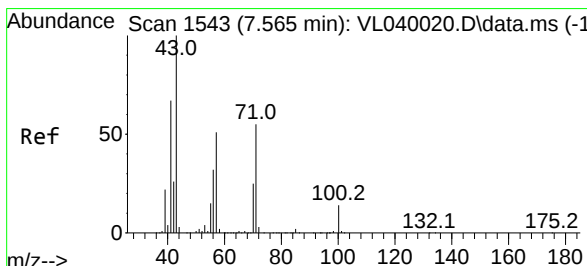
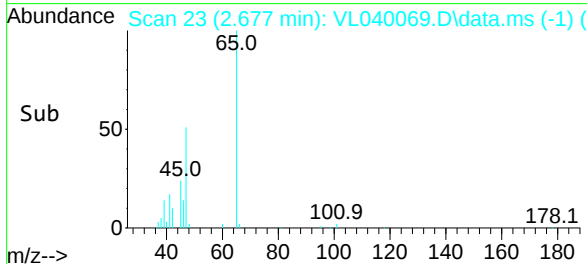
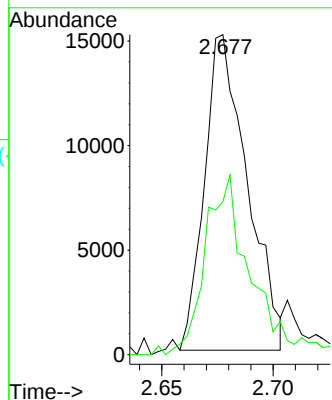
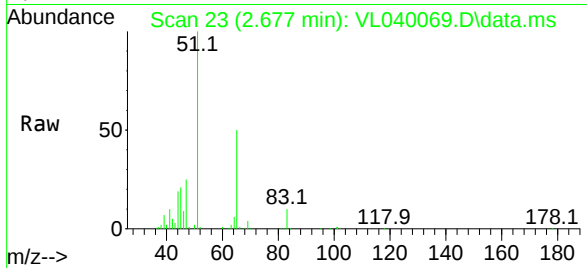




#9
 Propene
 Concen: 0.362 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VL040069.D
 Acq: 22 Dec 2022 15:48

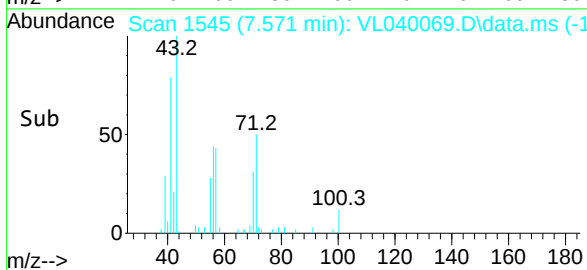
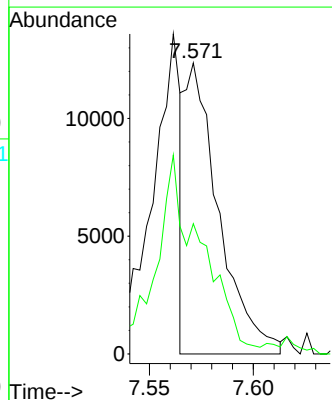
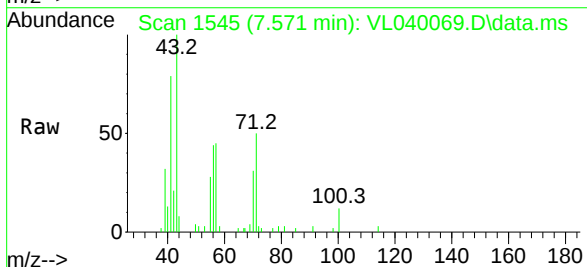
Instrument :
 MSVOA_L
 ClientSampleId :

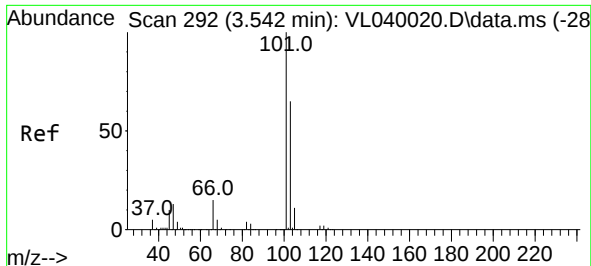
Tgt Ion: 41 Resp: 20177
 Ion Ratio Lower Upper
 41 100
 42 62.6 54.8 82.2



#10
 Heptane
 Concen: 0.103 ppbv
 RT: 7.571 min Scan# 1545
 Delta R.T. 0.006 min
 Lab File: VL040069.D
 Acq: 22 Dec 2022 15:48

Tgt Ion: 43 Resp: 13980
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.2 61.8#

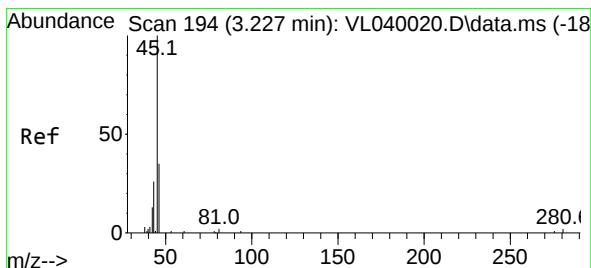
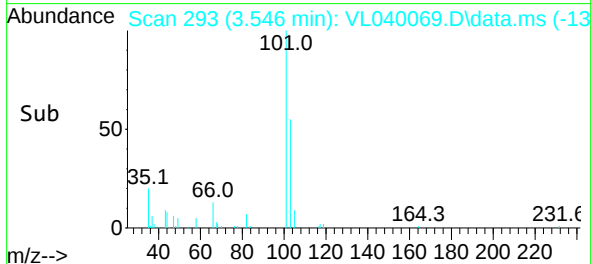
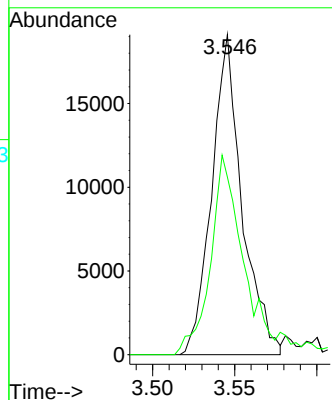
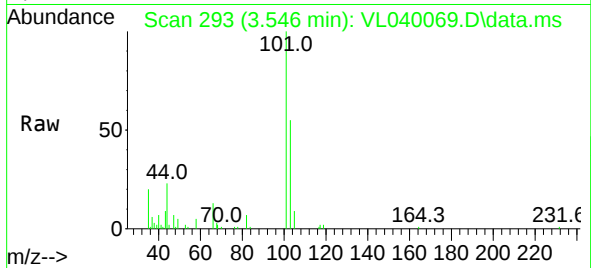




#11
 Trichlorofluoromethane
 Concen: 0.135 ppbv
 RT: 3.546 min Scan# 292
 Delta R.T. 0.003 min
 Lab File: VL040069.D
 Acq: 22 Dec 2022 15:48

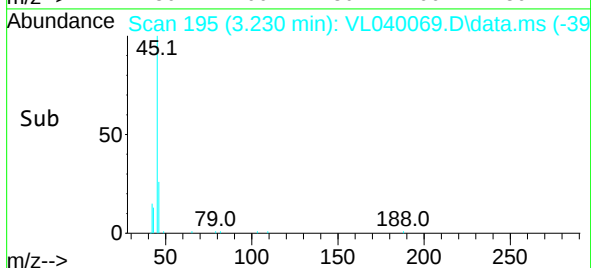
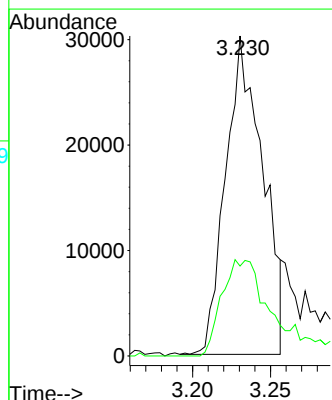
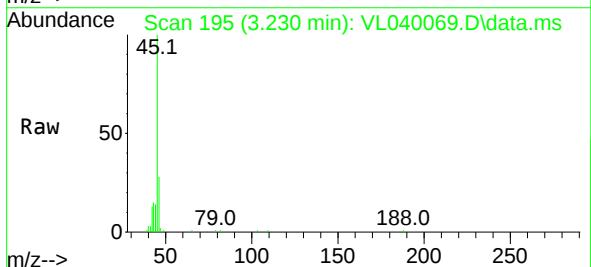
Instrument :
 MSVOA_L
 ClientSampleId :

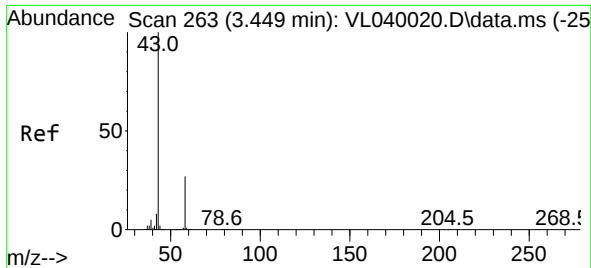
Tgt Ion:101 Resp: 24495
 Ion Ratio Lower Upper
 101 100
 103 53.5 51.7 77.5



#13
 Ethanol
 Concen: 9.498 ppbv
 RT: 3.230 min Scan# 195
 Delta R.T. 0.003 min
 Lab File: VL040069.D
 Acq: 22 Dec 2022 15:48

Tgt Ion: 45 Resp: 49870
 Ion Ratio Lower Upper
 45 100
 46 44.5 13.7 54.7

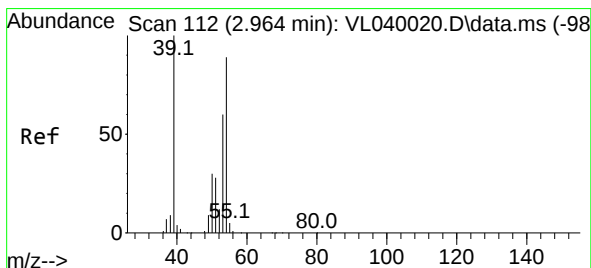
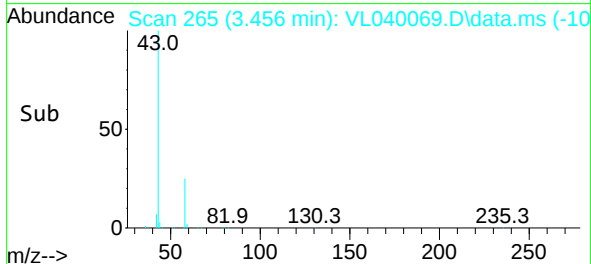
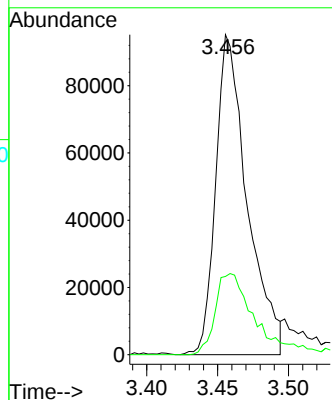
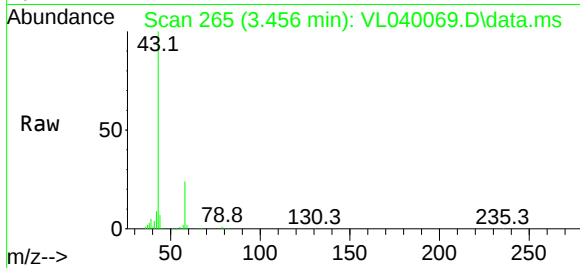




#15
Acetone
Concen: 1.069 ppbv
RT: 3.456 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

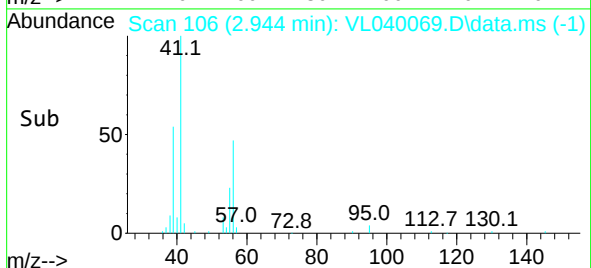
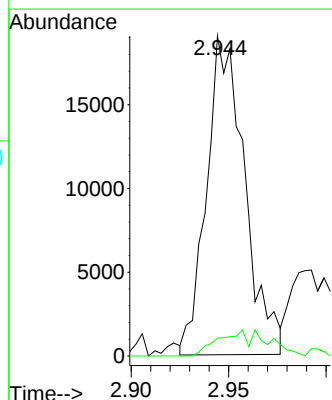
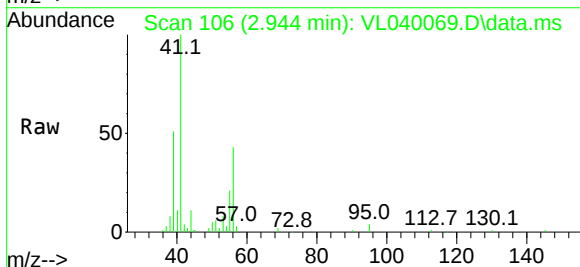
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MSVOA_L
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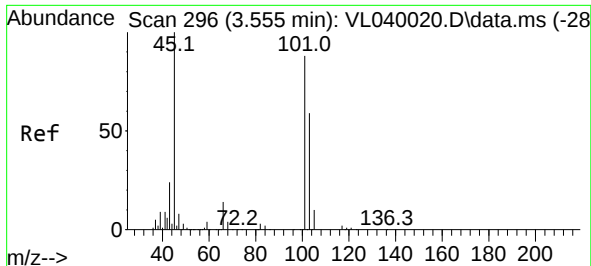
Tgt Ion: 43 Resp: 147323
Ion Ratio Lower Upper
43 100
58 32.9 21.8 32.8#



#16
1,3-Butadiene
Concen: 0.432 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.019 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Tgt Ion: 39 Resp: 25869
Ion Ratio Lower Upper
39 100
54 11.2 68.3 102.5#





#19

Isopropyl Alcohol

Concen: 1.329 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.022 min

Lab File: VL040069.D

Acq: 22 Dec 2022 15:48

Instrument :

MSVOA_L

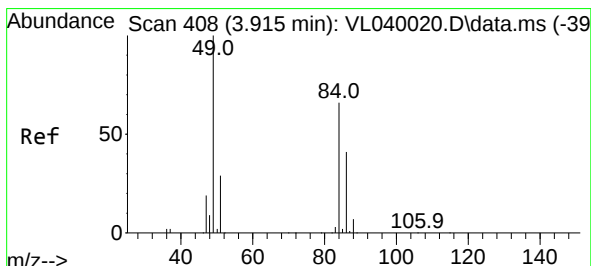
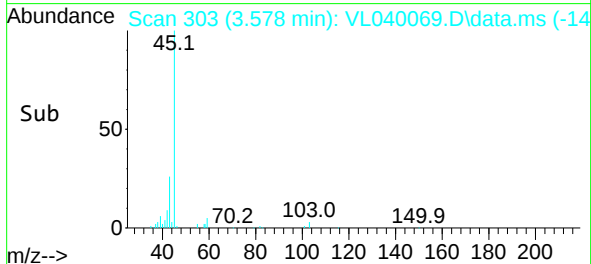
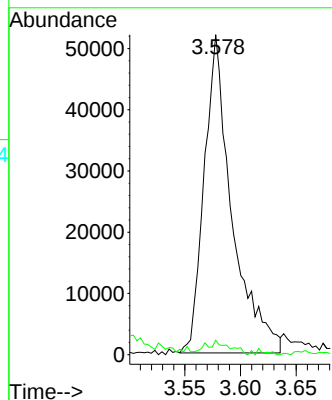
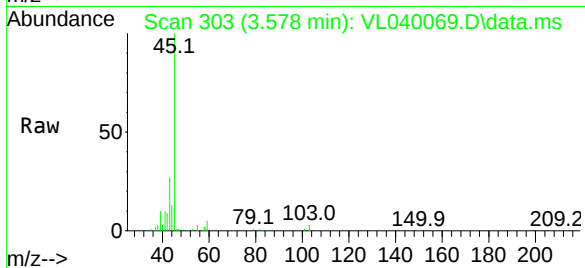
ClientSampleId :

Tgt Ion: 45 Resp: 90260

Ion Ratio Lower Upper

45 100

58 4.2 1.7 2.5#



#20

Methylene Chloride

Concen: 5.176 ppbv

RT: 3.915 min Scan# 408

Delta R.T. -0.000 min

Lab File: VL040069.D

Acq: 22 Dec 2022 15:48

Tgt Ion: 84 Resp: 303209

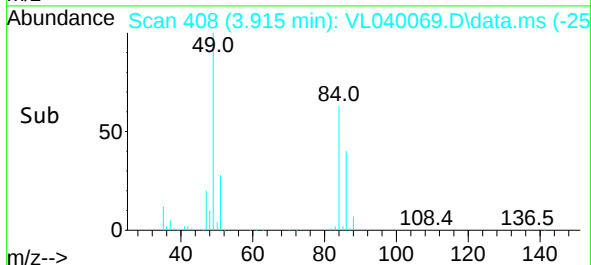
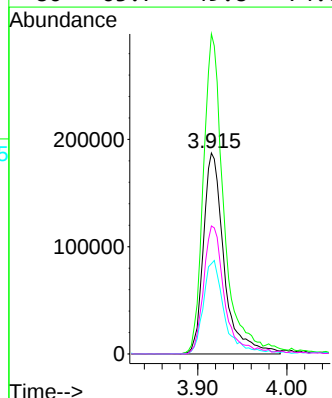
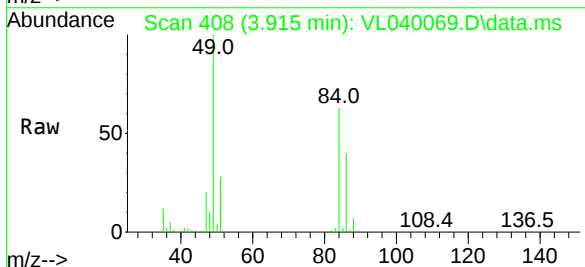
Ion Ratio Lower Upper

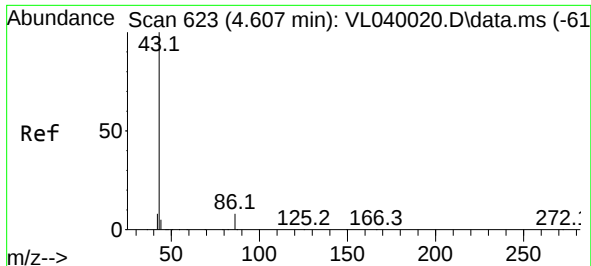
84 100

49 159.2 120.5 180.7

51 44.7 35.2 52.8

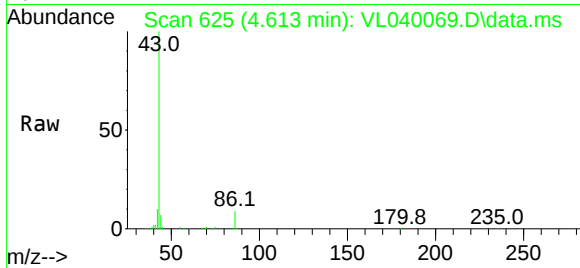
86 63.7 49.8 74.6



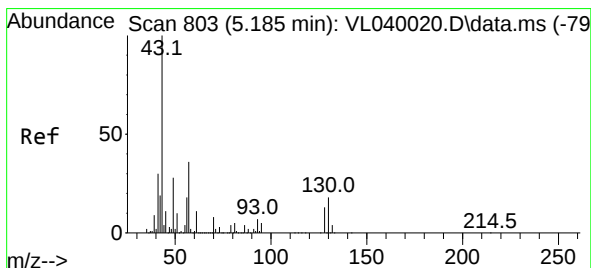
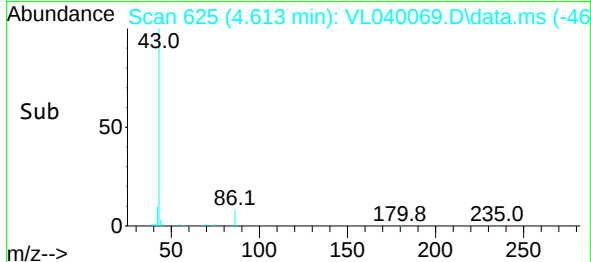
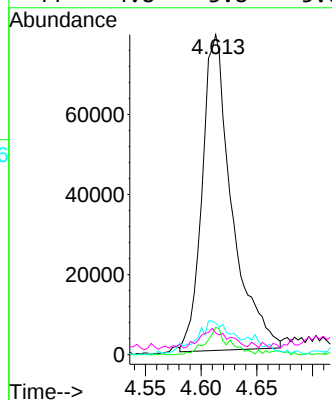


#23
 Vinyl Acetate
 Concen: 3.336 ppbv
 RT: 4.613 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL040069.D
 Acq: 22 Dec 2022 15:48

Instrument :
 MSVOA_L
 ClientSampleId :

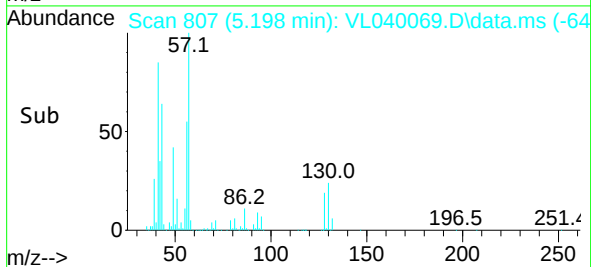
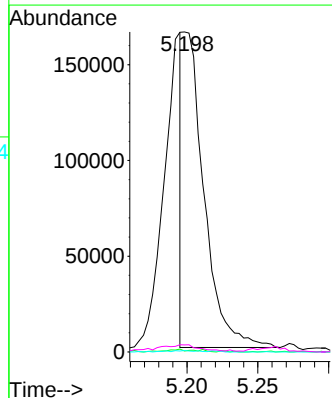
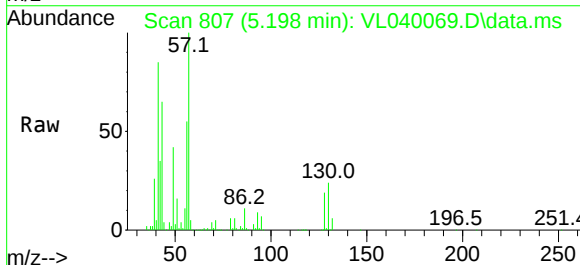


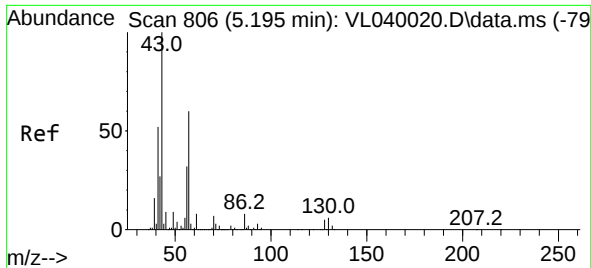
Tgt Ion: 43 Resp: 145756
 Ion Ratio Lower Upper
 43 100
 86 8.5 5.3 7.9#
 42 8.9 7.4 11.0
 44 4.8 3.8 5.6



#25
 Ethyl Acetate
 Concen: 0.721 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. 0.013 min
 Lab File: VL040069.D
 Acq: 22 Dec 2022 15:48

Tgt Ion: 43 Resp: 172178
 Ion Ratio Lower Upper
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 45 1.4 8.6 12.8#
 61 0.8 8.5 12.7#
 70 4.9 5.8 8.8#

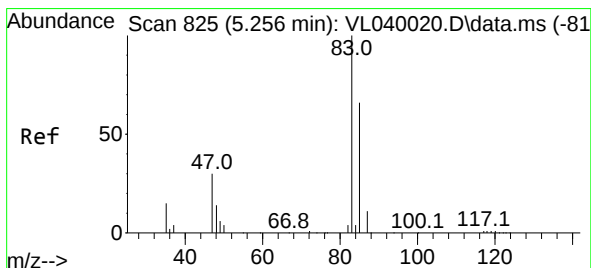
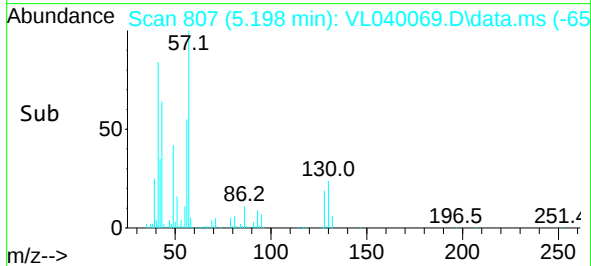
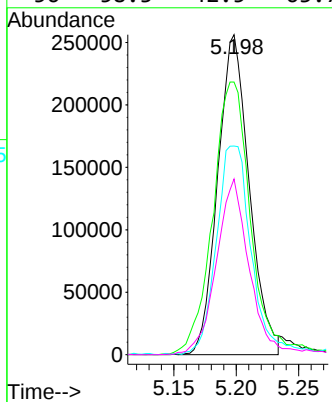
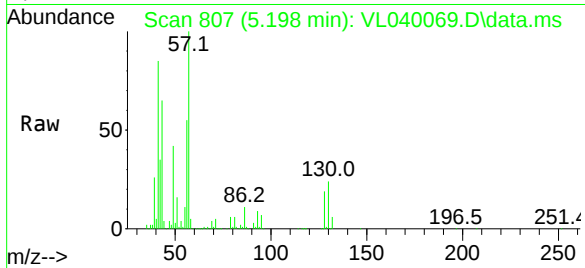




#26
Hexane
Concen: 4.498 ppbv
RT: 5.198 min Scan# 806
Delta R.T. 0.003 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

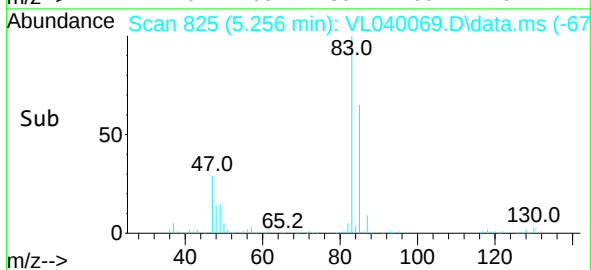
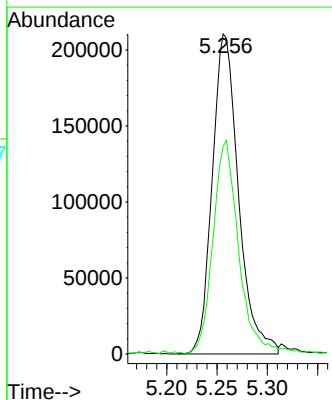
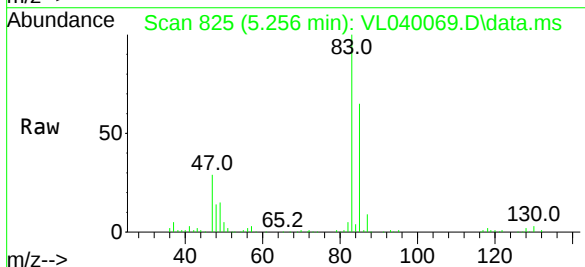
Instrument :
MSVOA_L
ClientSampleId :

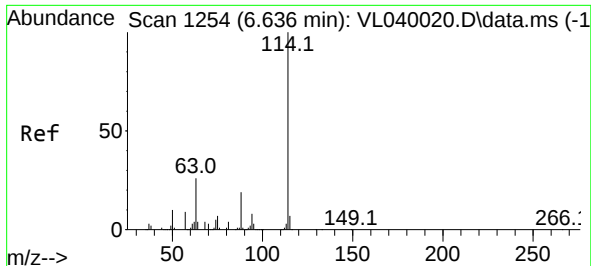
Tgt Ion: 57 Resp: 451251
Ion Ratio Lower Upper
57 100
41 103.8 72.1 108.1
43 73.7 192.1 288.1#
56 58.3 42.5 63.7



#29
Chloroform
Concen: 2.498 ppbv
RT: 5.256 min Scan# 825
Delta R.T. -0.000 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Tgt Ion: 83 Resp: 382351
Ion Ratio Lower Upper
83 100
85 64.4 52.4 78.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. 0.003 min

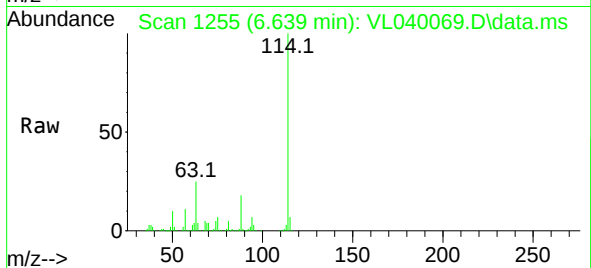
Lab File: VL040069.D

Acq: 22 Dec 2022 15:48

Instrument :

MSVOA_L

ClientSampleId :



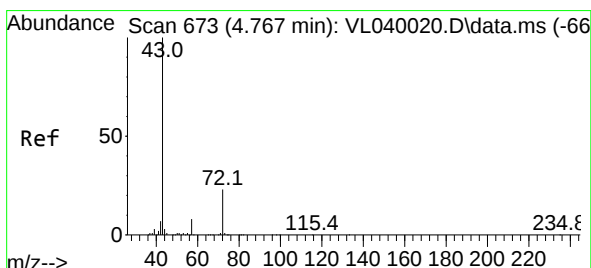
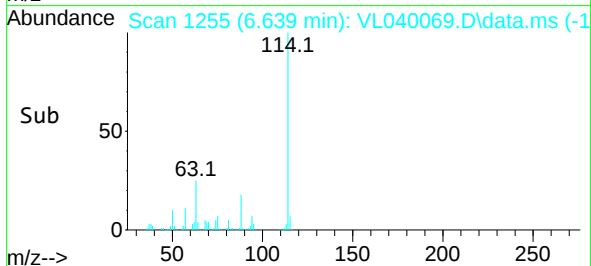
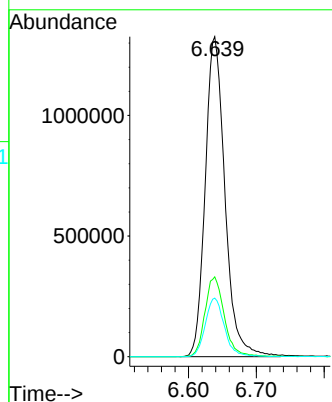
Tgt Ion:114 Resp: 2678419

Ion Ratio Lower Upper

114 100

63 24.6 20.2 30.2

88 18.0 14.6 21.8



#34

2-Butanone

Concen: 0.095 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.026 min

Lab File: VL040069.D

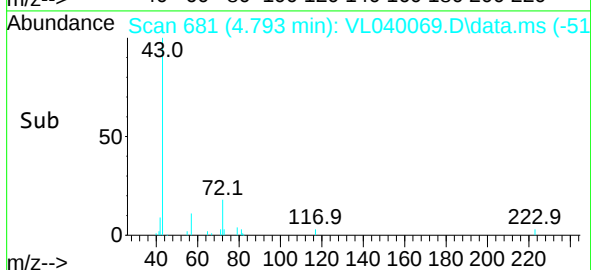
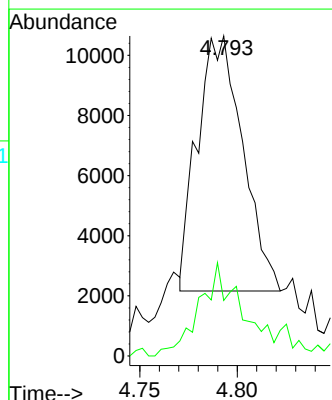
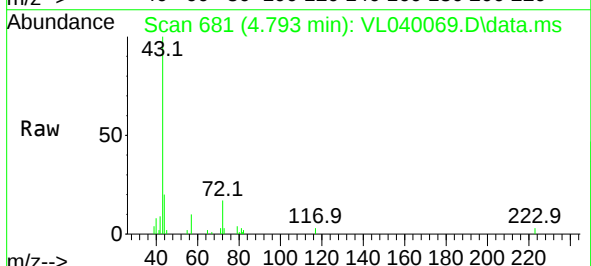
Acq: 22 Dec 2022 15:48

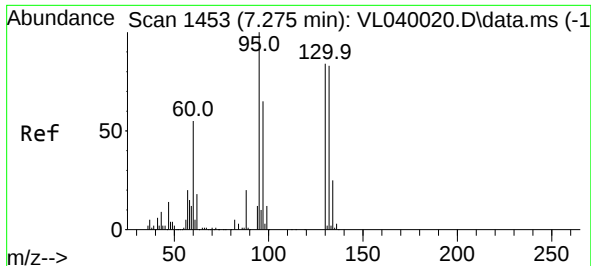
Tgt Ion: 43 Resp: 13735

Ion Ratio Lower Upper

43 100

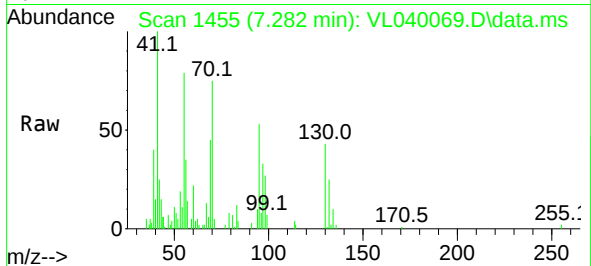
72 41.0 18.0 27.0#



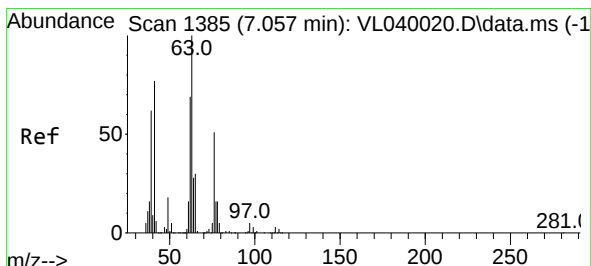
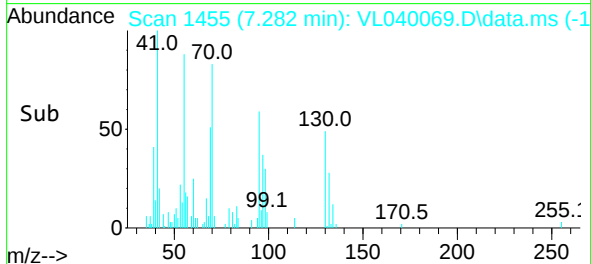
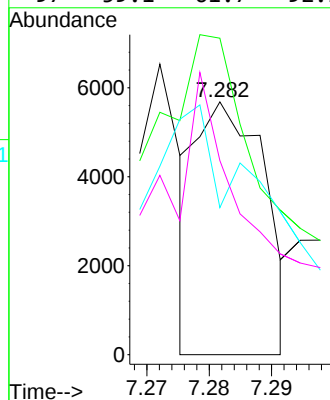


#38
Trichloroethene
Concen: 0.035 ppbv
RT: 7.282 min Scan# 1455
Delta R.T. 0.006 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Instrument :
MSVOA_L
ClientSampleId :

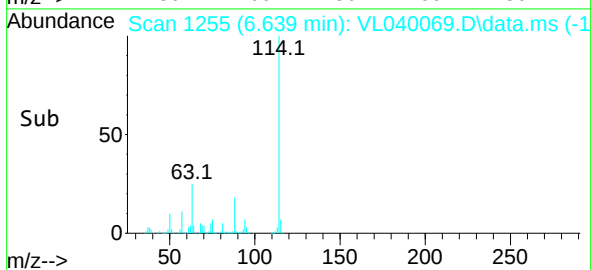
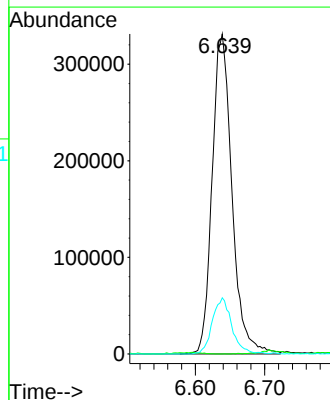
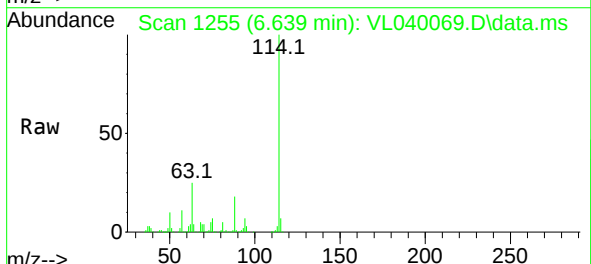


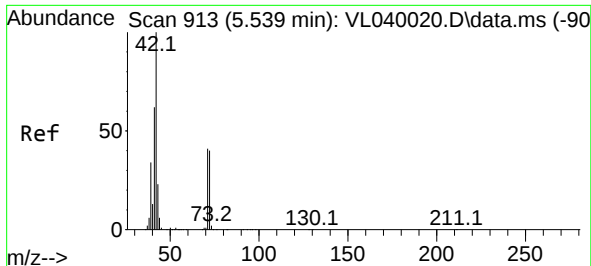
Tgt Ion:130 Resp: 4350
Ion Ratio Lower Upper
130 100
95 108.8 94.8 142.2
132 2.5 78.2 117.4#
97 59.1 61.7 92.5#



#39
1,2-Dichloropropane
Concen: 7.327 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.418 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Tgt Ion: 63 Resp: 656984
Ion Ratio Lower Upper
63 100
41 0.0 61.4 92.0#
62 17.6 55.4 83.2#





#41

Tetrahydrofuran

Concen: 1.924 ppbv

RT: 5.195 min Scan# 80

Delta R.T. -0.344 min

Lab File: VL040069.D

Acq: 22 Dec 2022 15:48

Instrument :

MSVOA_L

ClientSampleId :

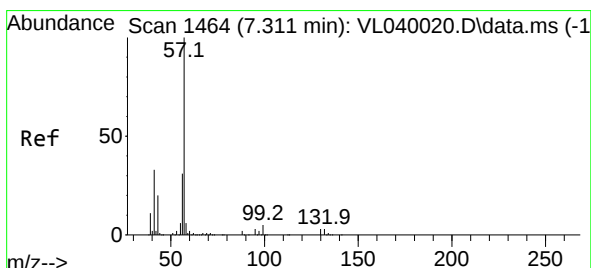
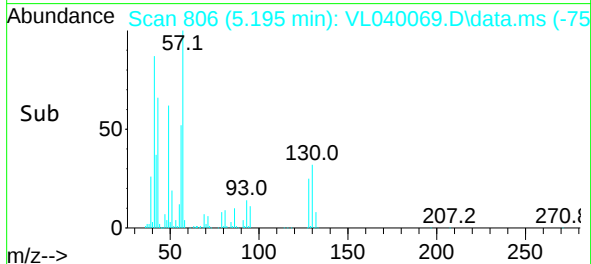
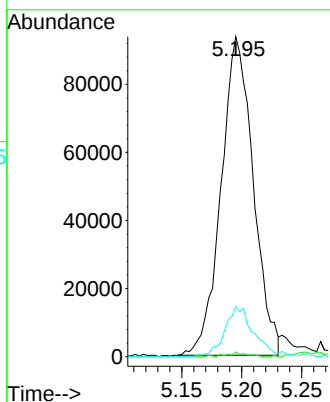
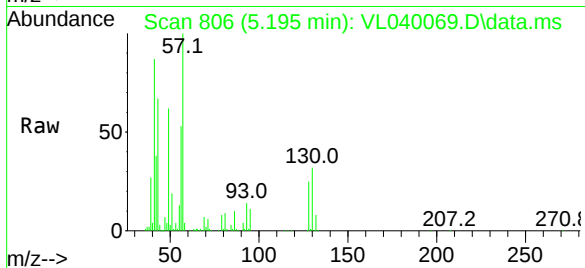
Tgt Ion: 42 Resp: 174467

Ion Ratio Lower Upper

42 100

72 0.8 32.9 49.3#

71 14.6 32.2 48.2#



#44

2,2,4-Trimethylpentane

Concen: 0.056 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VL040069.D

Acq: 22 Dec 2022 15:48

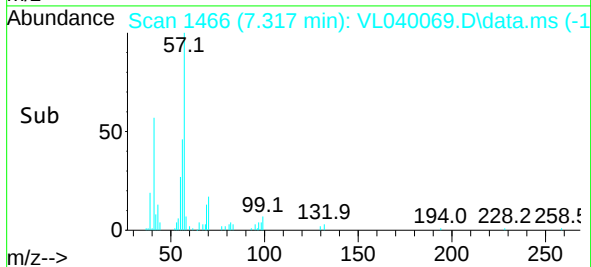
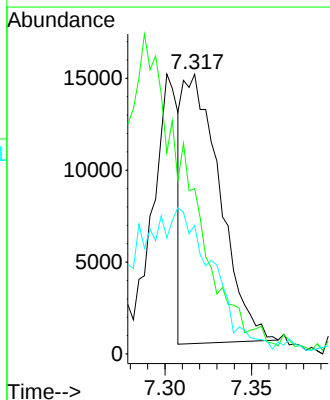
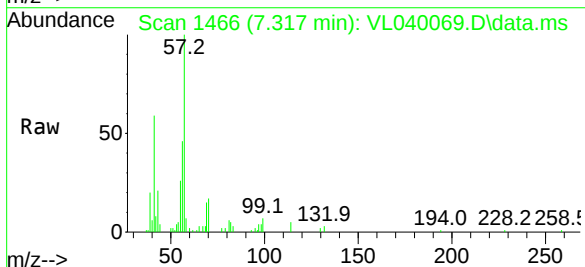
Tgt Ion: 57 Resp: 22092

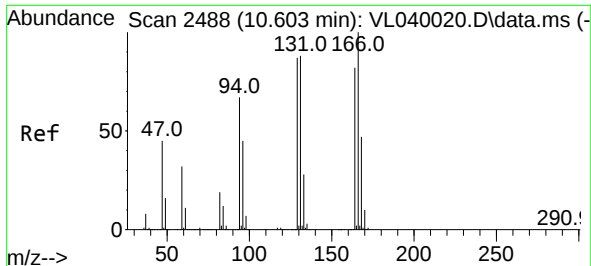
Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.4#

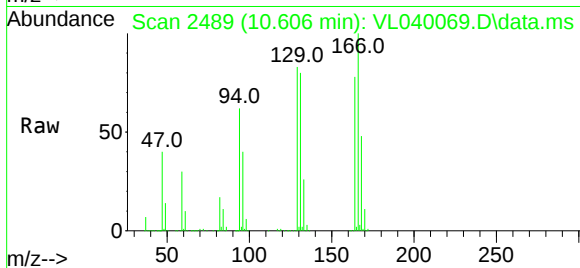
56 0.0 25.1 37.7#





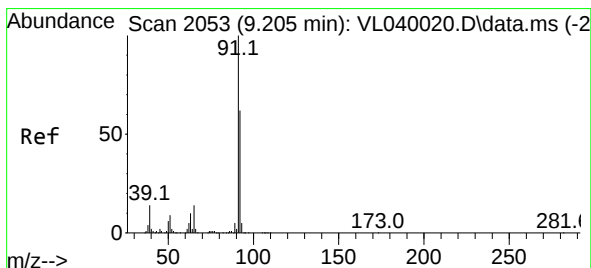
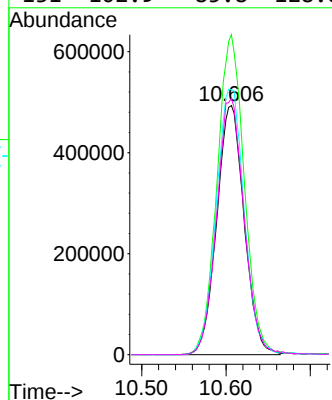
#52
Tetrachloroethene
Concen: 13.641 ppbv
RT: 10.606 min Scan# 2488
Delta R.T. 0.003 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:164 Resp: 1109413

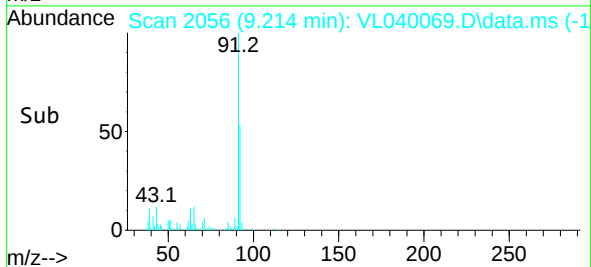
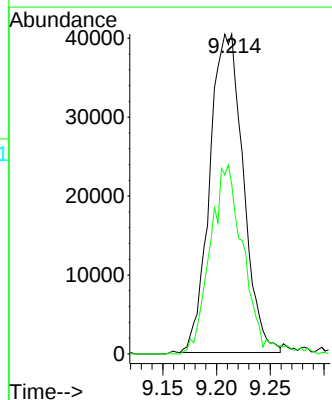
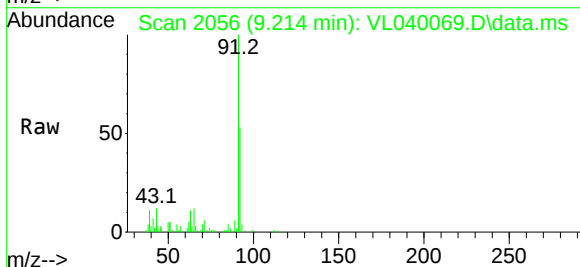
Ion	Ratio	Lower	Upper
164	100		
166	128.4	97.4	146.0
129	106.4	84.3	126.5
131	102.9	85.8	128.8

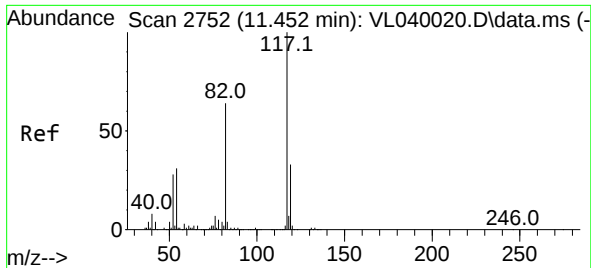


#53
Toluene
Concen: 0.330 ppbv
RT: 9.214 min Scan# 2056
Delta R.T. 0.010 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Tgt Ion: 91 Resp: 87515

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.7	73.1

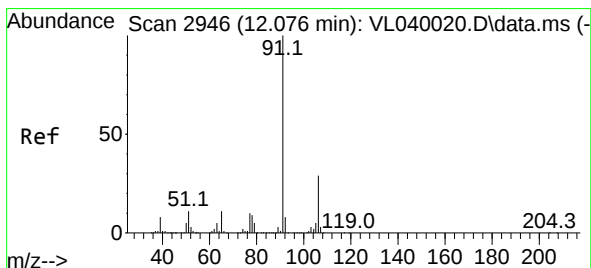
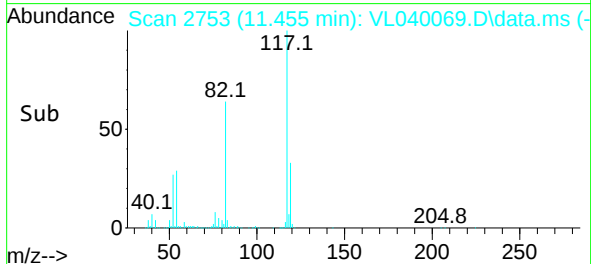
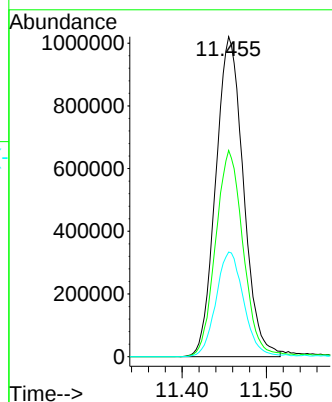
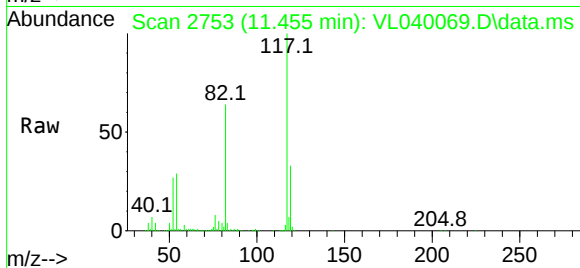




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

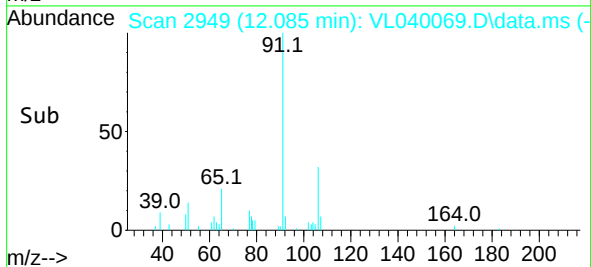
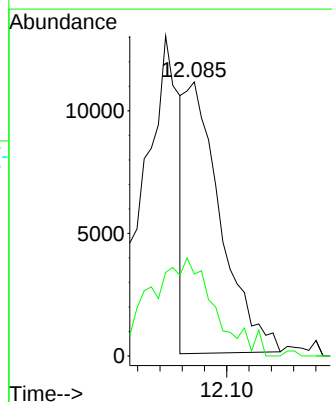
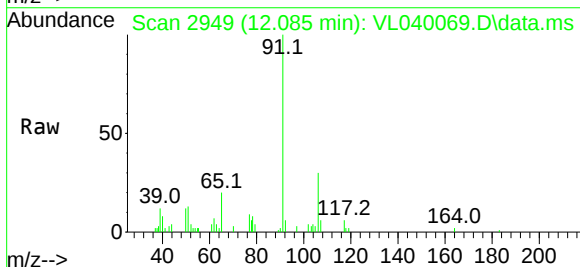
Instrument :
MSVOA_L
ClientSampleId :

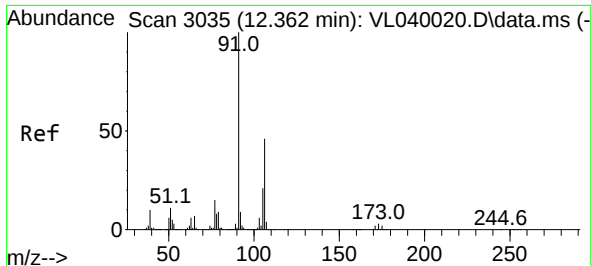
Tgt Ion:117 Resp: 2327121
Ion Ratio Lower Upper
117 100
82 65.4 51.2 76.8
119 33.2 23.2 34.8



#58
Ethyl Benzene
Concen: 0.037 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. 0.010 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Tgt Ion: 91 Resp: 12323
Ion Ratio Lower Upper
91 100
106 30.4 23.5 35.3





#59

m/p-Xylene

Concen: 0.190 ppbv

RT: 12.336 min Scan# 3035

Delta R.T. -0.026 min

Lab File: VL040069.D

Acq: 22 Dec 2022 15:48

Instrument :

MSVOA_L

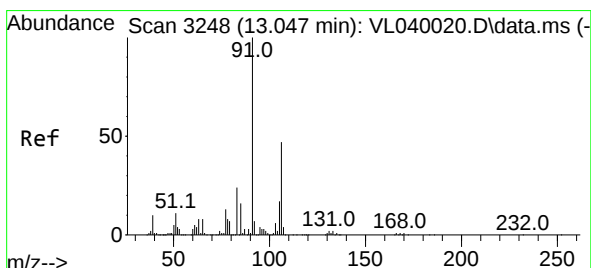
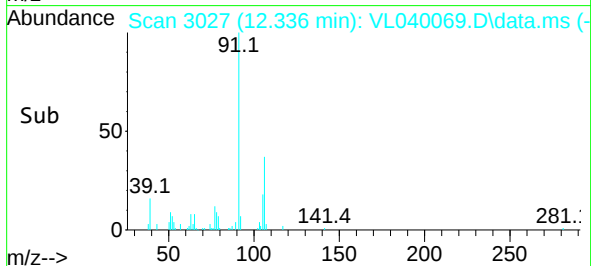
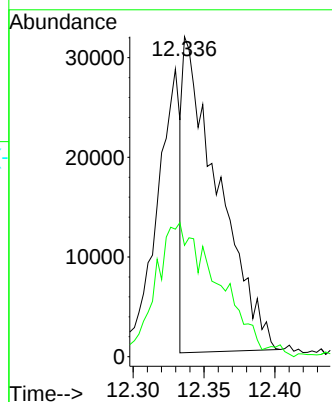
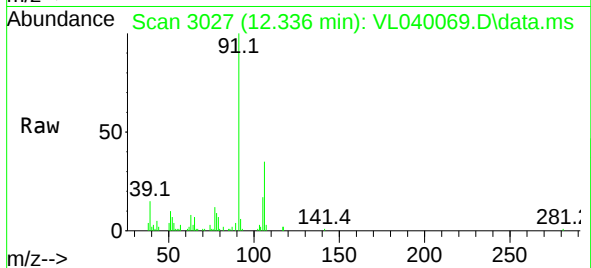
ClientSampleId :

Tgt Ion: 91 Resp: 54735

Ion Ratio Lower Upper

91 100

106 76.9 35.5 53.3#



#60

o-Xylene

Concen: 0.136 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. -0.000 min

Lab File: VL040069.D

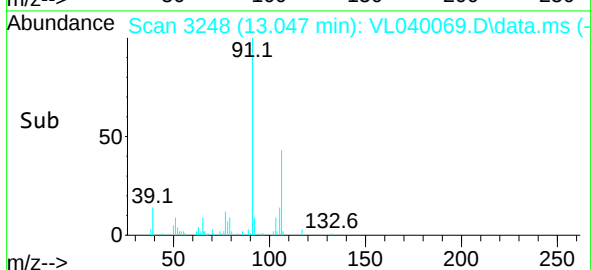
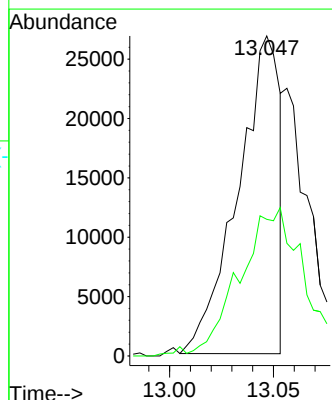
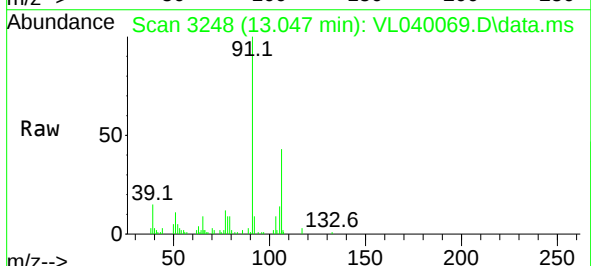
Acq: 22 Dec 2022 15:48

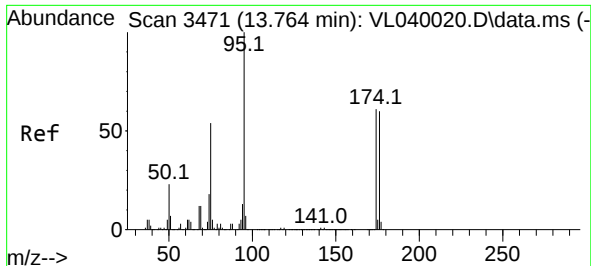
Tgt Ion: 91 Resp: 37448

Ion Ratio Lower Upper

91 100

106 0.0 22.4 67.0#

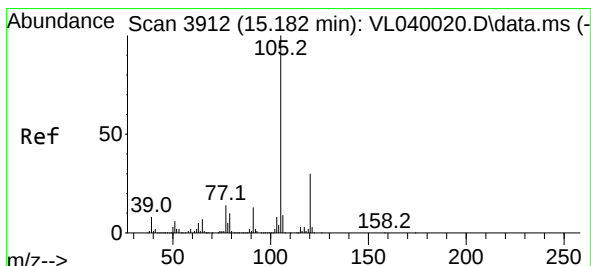
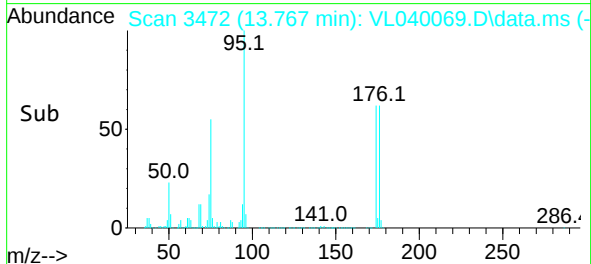
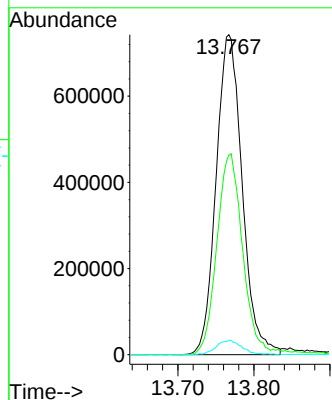
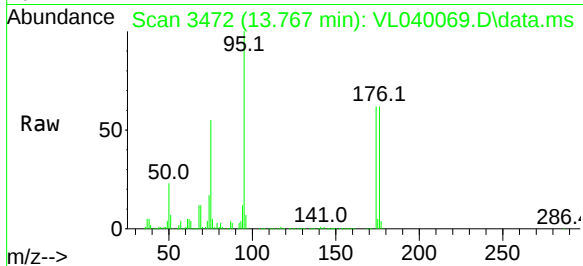




#68
1-Bromo-4-Fluorobenzene
Concen: 9.951 ppbv
RT: 13.767 min Scan# 3471
Delta R.T. 0.003 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

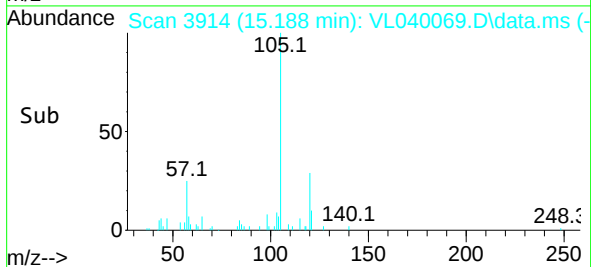
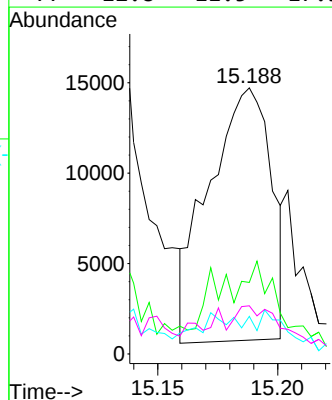
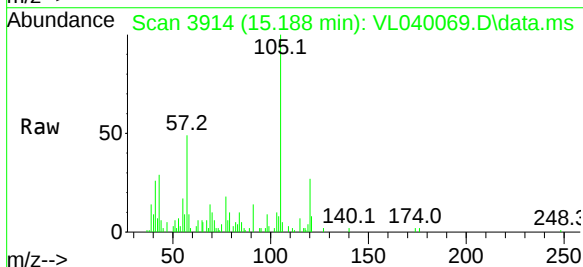
Instrument :
MSVOA_L
ClientSampleId :

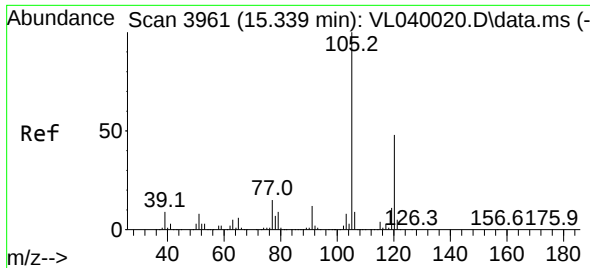
Tgt Ion: 95 Resp: 1768979
Ion Ratio Lower Upper
95 100
174 63.7 48.6 73.0
175 4.5 3.4 5.2



#72
4-Ethyltoluene
Concen: 0.083 ppbv
RT: 15.188 min Scan# 3914
Delta R.T. 0.006 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Tgt Ion: 105 Resp: 25298
Ion Ratio Lower Upper
105 100
120 43.3 23.5 35.3#
91 18.4 10.5 15.7#
77 12.8 11.5 17.3

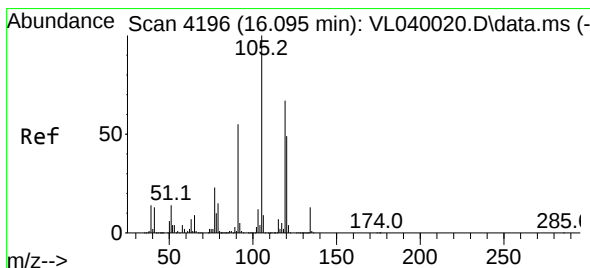
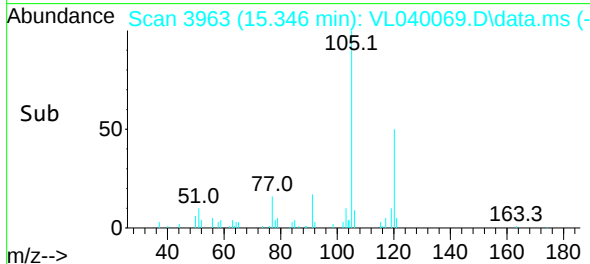
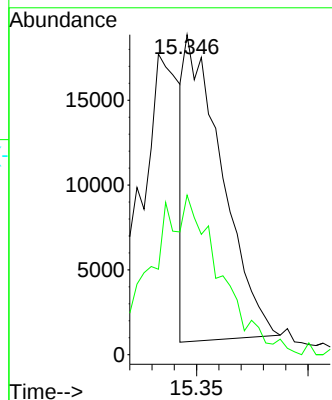
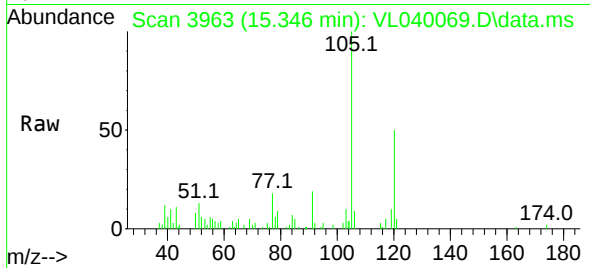




#73
1,3,5-Trimethylbenzene
Concen: 0.076 ppbv
RT: 15.346 min Scan# 3963
Delta R.T. 0.006 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 21043
Ion Ratio Lower Upper
105 100
120 47.9 38.4 57.6



#74
1,2,4-Trimethylbenzene
Concen: 0.624 ppbv
RT: 16.098 min Scan# 4197
Delta R.T. 0.003 min
Lab File: VL040069.D
Acq: 22 Dec 2022 15:48

Tgt Ion:105 Resp: 189981
Ion Ratio Lower Upper
105 100
120 38.9 39.3 58.9#
91 10.8 44.2 66.4#
77 14.2 18.8 28.2#

