

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120122\
 Data File : VL039950.D
 Acq On : 1 Dec 2022 20:18
 Operator : SY/MD
 Sample : N5825-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OTC-SSDL

Quant Time: Dec 02 05:35:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 05:29:35 2022
 Response via : Initial Calibration

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

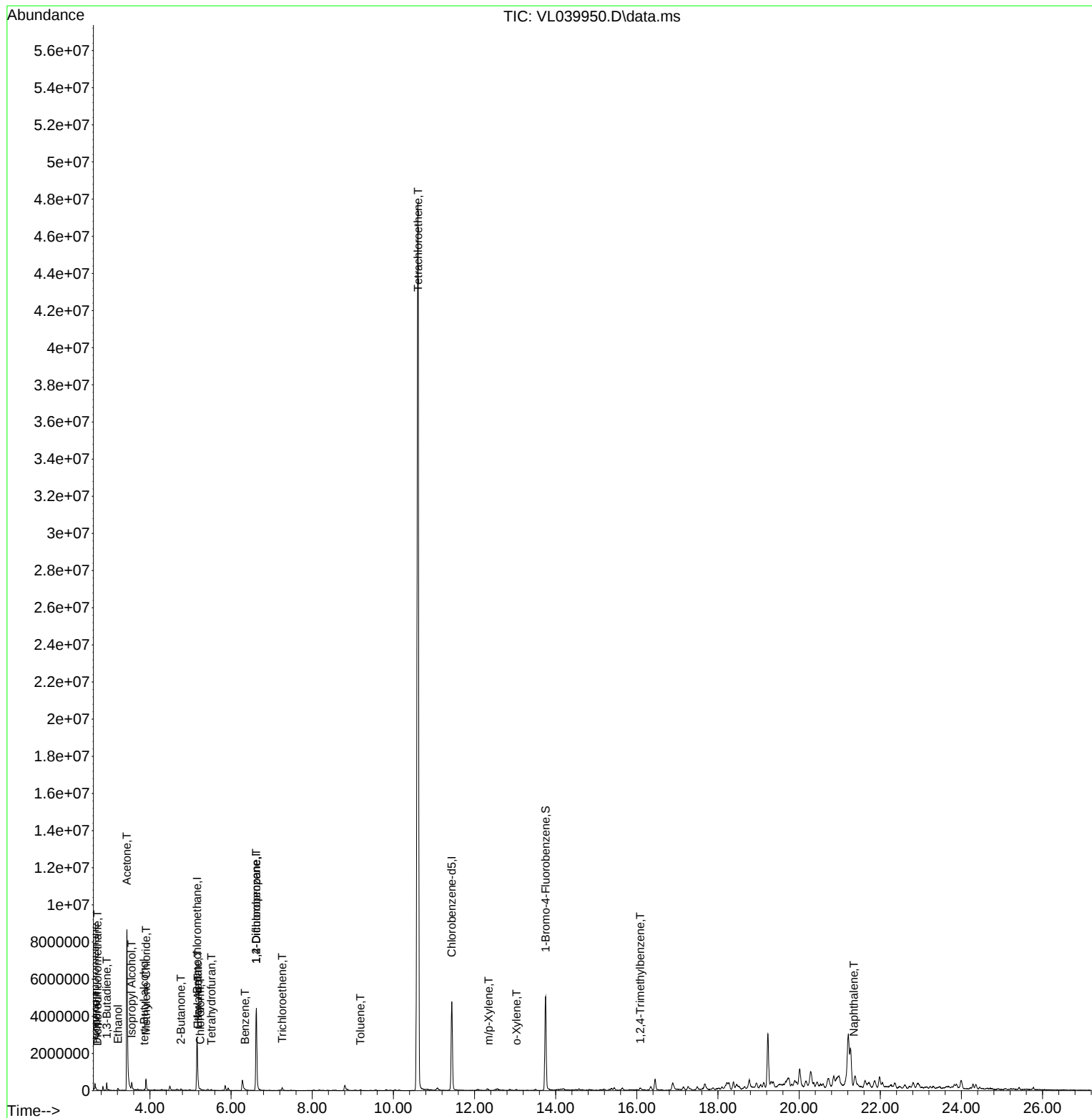
Internal Standards						
1) Bromochloromethane	5.160	49	1309793	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.623	114	3486626	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.439	117	3223084	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	2504463	10.173	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	= 101.700%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.703	85	9662	0.052	ppbv	92
3) Chlorodifluoromethane	2.645	51	306562	1.696	ppbv	100
9) Propene	2.671	41	40115	0.471	ppbv	98
13) Ethanol	3.211	45	119183	18.336	ppbv	97
15) Acetone	3.433	43	9150909	52.673	ppbv #	88
16) 1,3-Butadiene	2.935	39	101352	1.171	ppbv #	15
17) tert-Butyl alcohol	3.861	59	12405	0.062	ppbv #	72
19) Isopropyl Alcohol	3.549	45	359963	3.827	ppbv #	29
20) Methylene Chloride	3.902	84	187597	2.229	ppbv	97
25) Ethyl Acetate	5.182	43	88173	0.276	ppbv #	78
26) Hexane	5.179	57	131144	0.941	ppbv #	39
29) Chloroform	5.240	83	16307	0.088	ppbv	98
34) 2-Butanone	4.764	43	72820	0.436	ppbv #	88
36) Benzene	6.343	78	24917	0.084	ppbv	92
38) Trichloroethene	7.259	130	23563	0.142	ppbv	89
39) 1,2-Dichloropropane	6.623	63	853429	7.391	ppbv #	25
41) Tetrahydrofuran	5.513	42	5513	0.048	ppbv #	54
52) Tetrachloroethene	10.606	164	15149915	136.649	ppbv	92
53) Toluene	9.185	91	11914	0.035	ppbv #	1
59) m/p-Xylene	12.346	91	13538	0.037	ppbv #	30
60) o-Xylene	13.034	91	23549	0.067	ppbv #	62
74) 1,2,4-Trimethylbenzene	16.082	105	36766	0.097	ppbv #	72
79) Naphthalene	21.352	128	15649	0.069	ppbv #	79

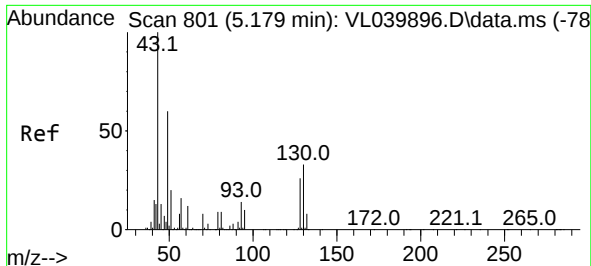
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 02 05:29:35 2022
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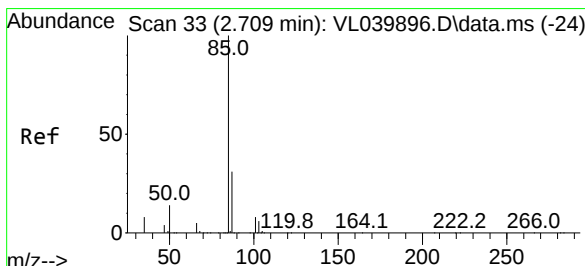
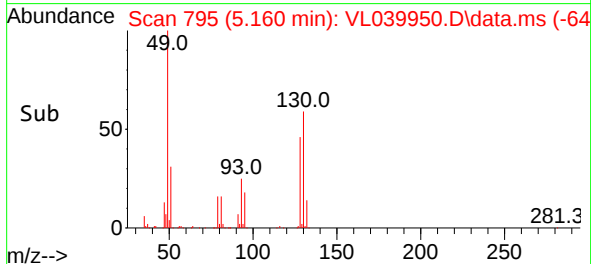
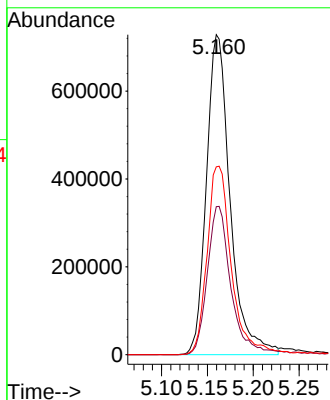
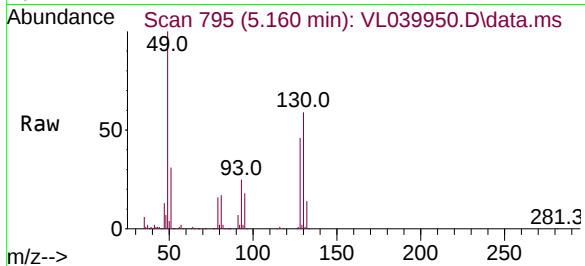




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.160 min Scan# 79
 Delta R.T. -0.013 min
 Lab File: VL039950.D
 Acq: 1 Dec 2022 20:18

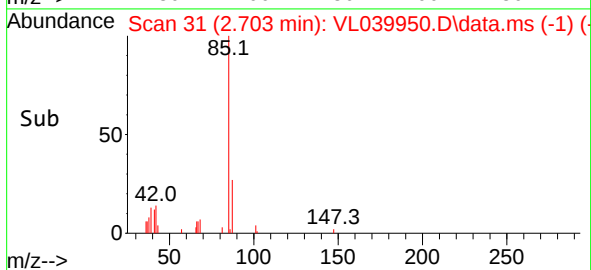
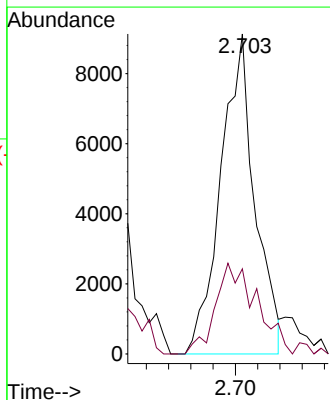
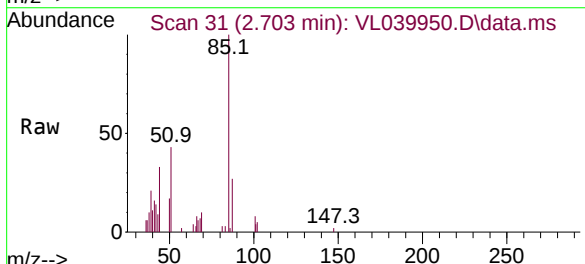
Instrument :
 MSVOA_L
 ClientSampleId :
 OTC-SSDL

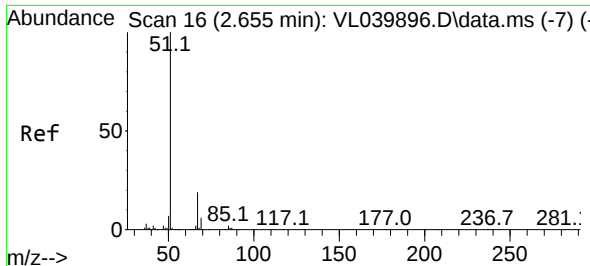
Tgt Ion: 49 Resp: 1309793
 Ion Ratio Lower Upper
 49 100
 128 47.7 22.1 66.3
 130 61.8 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.052 ppbv
 RT: 2.703 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: VL039950.D
 Acq: 1 Dec 2022 20:18

Tgt Ion: 85 Resp: 9662
 Ion Ratio Lower Upper
 85 100
 87 26.6 25.0 37.4

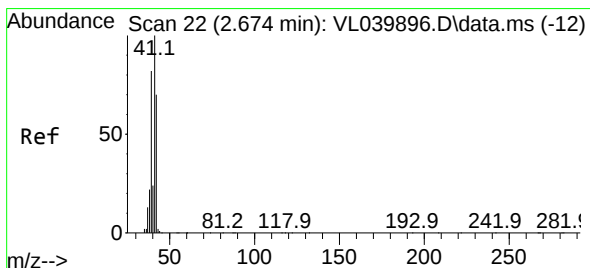
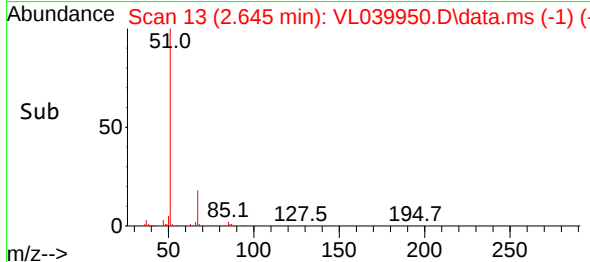
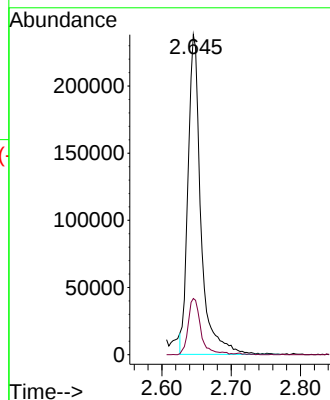
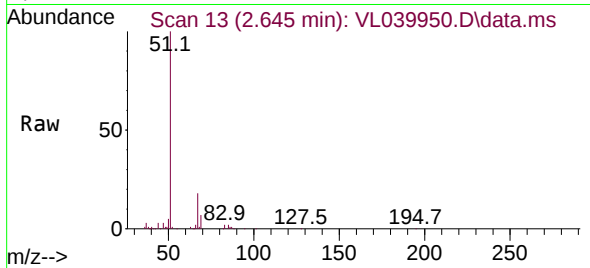




#3
Chlorodifluoromethane
Concen: 1.696 ppbv
RT: 2.645 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

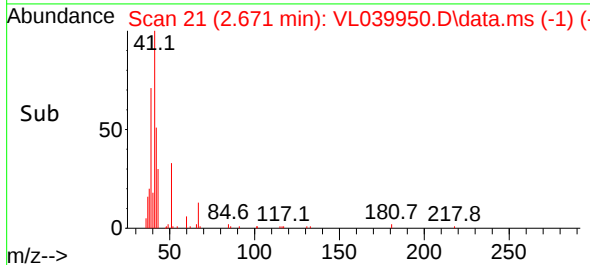
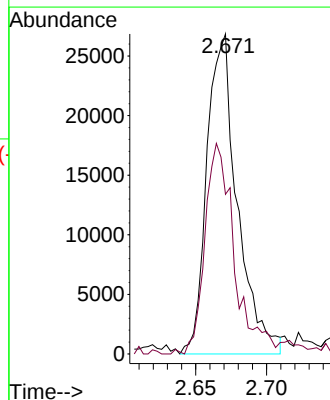
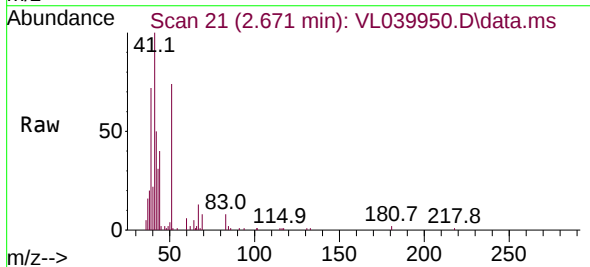
Instrument :
MSVOA_L
ClientSampleId :
OTC-SSDL

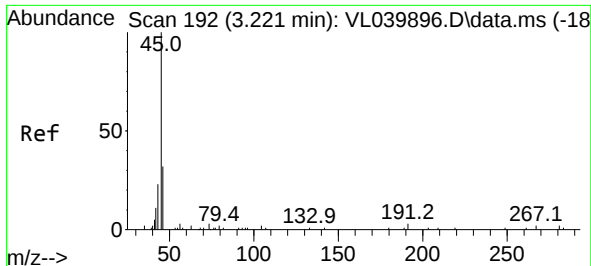
Tgt Ion: 51 Resp: 306562
Ion Ratio Lower Upper
51 100
67 17.7 14.2 21.4



#9
Propene
Concen: 0.471 ppbv
RT: 2.671 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

Tgt Ion: 41 Resp: 40115
Ion Ratio Lower Upper
41 100
42 68.0 55.8 83.6

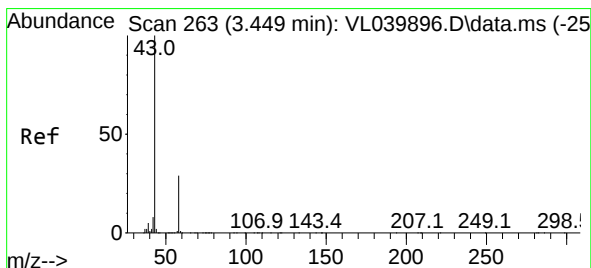
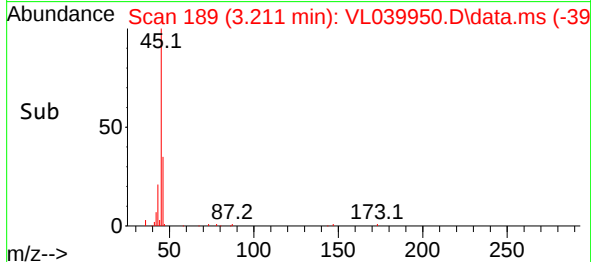
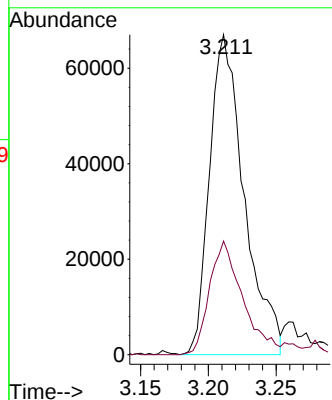
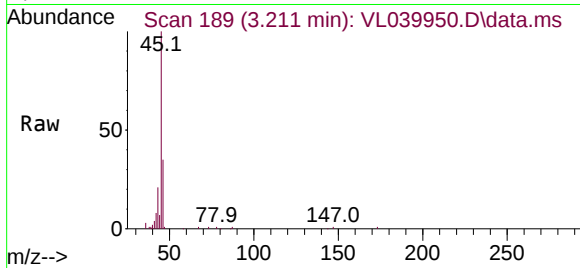




#13
Ethanol
Concen: 18.336 ppbv
RT: 3.211 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

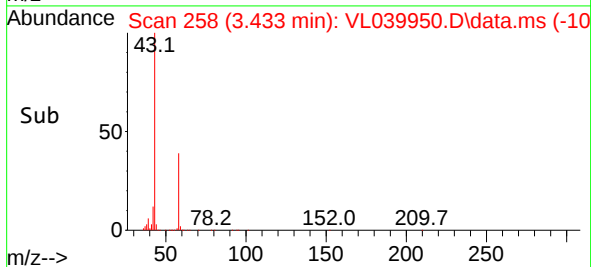
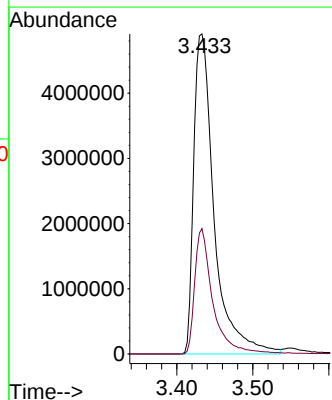
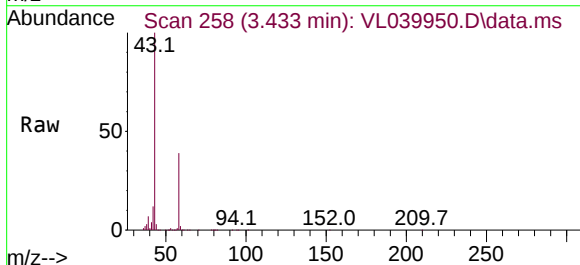
Instrument :
MSVOA_L
ClientSampleId :
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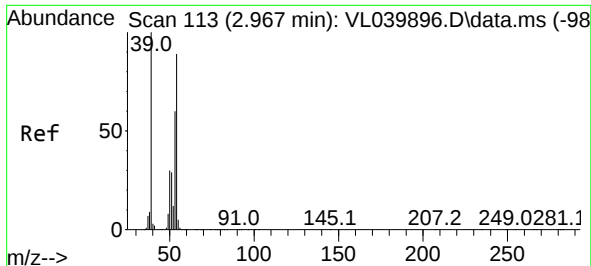
Tgt Ion: 45 Resp: 119183
Ion Ratio Lower Upper
45 100
46 38.3 14.6 58.2



#15
Acetone
Concen: 52.673 ppbv
RT: 3.433 min Scan# 258
Delta R.T. -0.013 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

Tgt Ion: 43 Resp: 9150909
Ion Ratio Lower Upper
43 100
58 35.1 22.9 34.3#

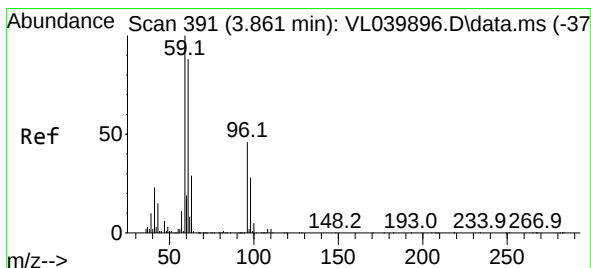
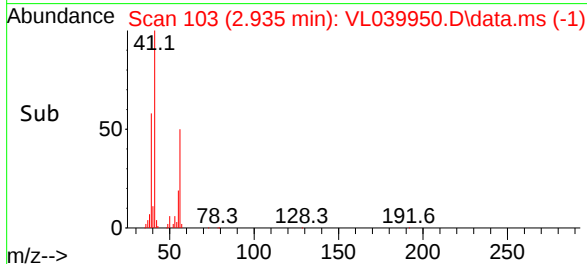
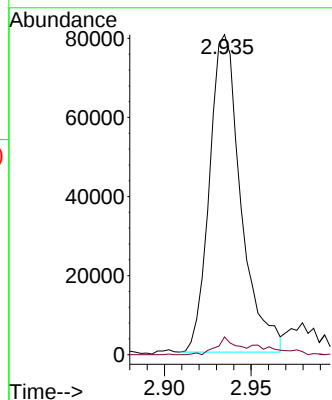
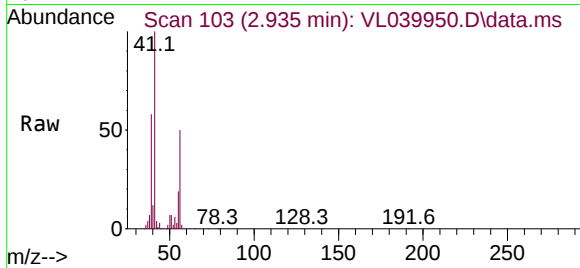




#16
1,3-Butadiene
Concen: 1.171 ppbv
RT: 2.935 min Scan# 103
Delta R.T. -0.029 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

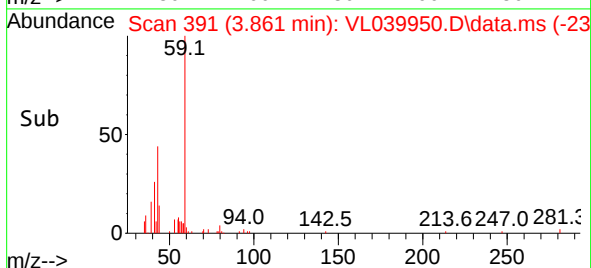
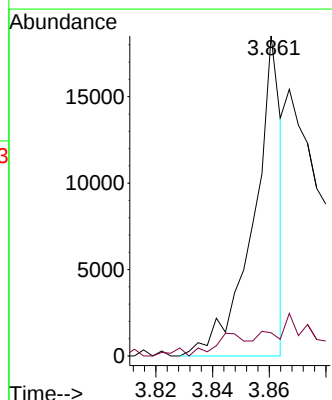
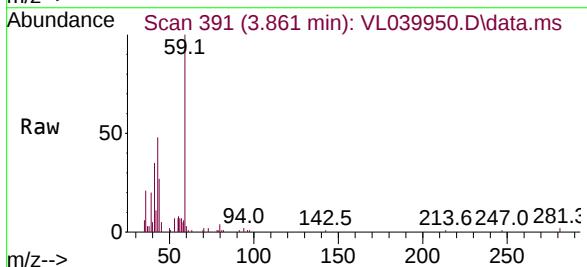
Instrument :
MSVOA_L
ClientSampleId :
OTC-SSDL

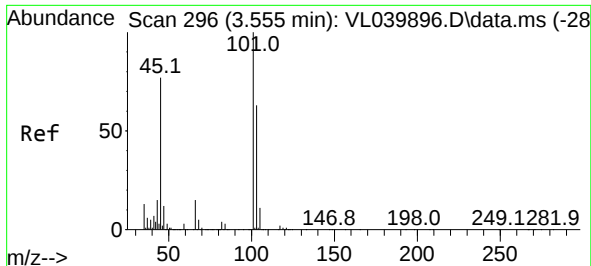
Tgt Ion: 39 Resp: 101352
Ion Ratio Lower Upper
39 100
54 6.5 66.6 99.8#



#17
tert-Butyl alcohol
Concen: 0.062 ppbv
RT: 3.861 min Scan# 391
Delta R.T. 0.003 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

Tgt Ion: 59 Resp: 12405
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

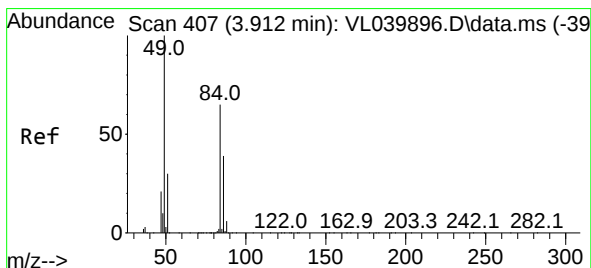
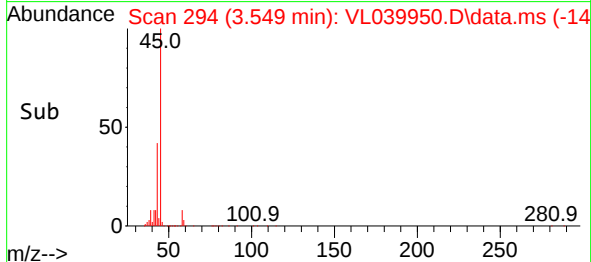
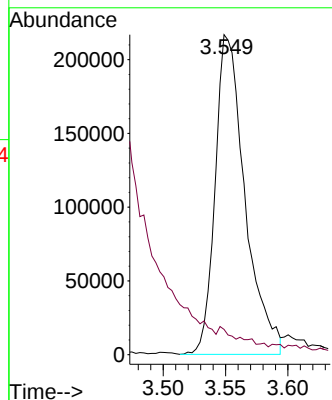
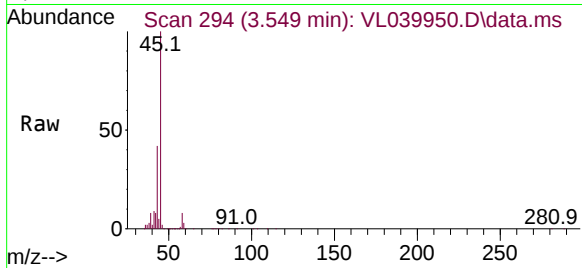




#19
Isopropyl Alcohol
Concen: 3.827 ppbv
RT: 3.549 min Scan# 29
Delta R.T. -0.006 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

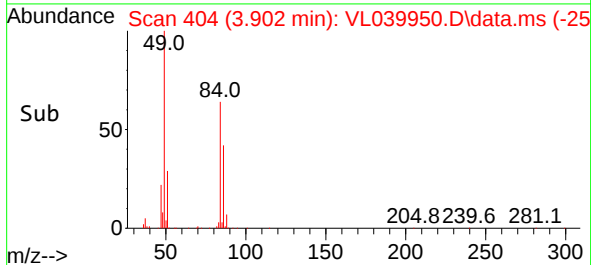
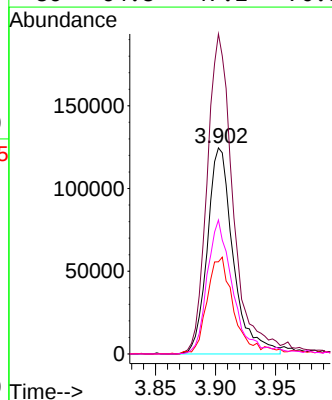
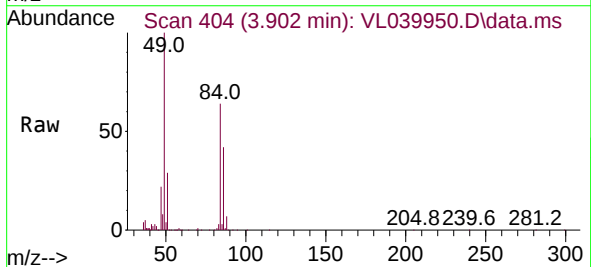
Instrument :
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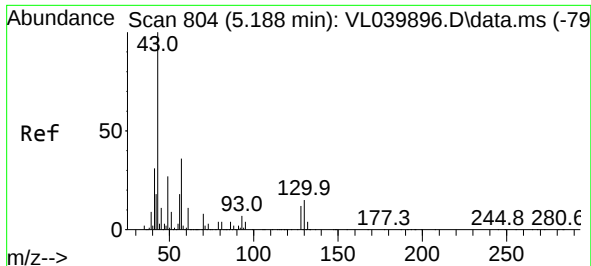
Tgt Ion: 45 Resp: 359963
Ion Ratio Lower Upper
45 100
58 0.0 38.7 58.1#



#20
Methylene Chloride
Concen: 2.229 ppbv
RT: 3.902 min Scan# 404
Delta R.T. -0.010 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

Tgt Ion: 84 Resp: 187597
Ion Ratio Lower Upper
84 100
49 154.9 122.2 183.4
51 44.6 36.3 54.5
86 64.8 47.2 70.8

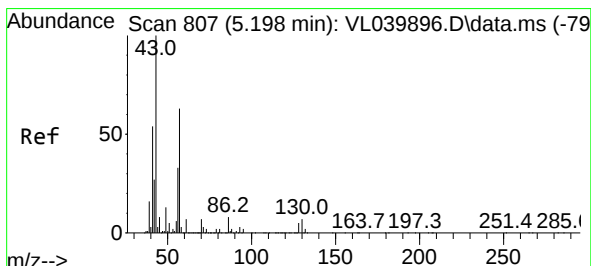
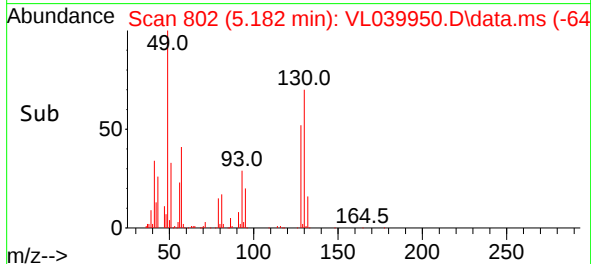
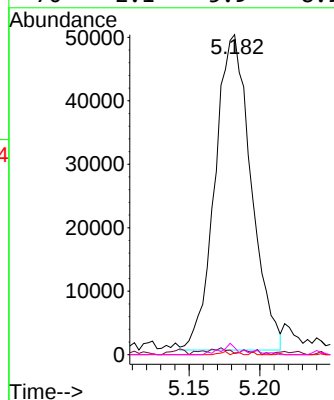
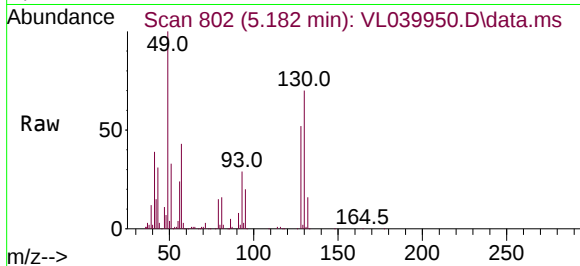




#25
Ethyl Acetate
Concen: 0.276 ppbv
RT: 5.182 min Scan# 801
Delta R.T. -0.003 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

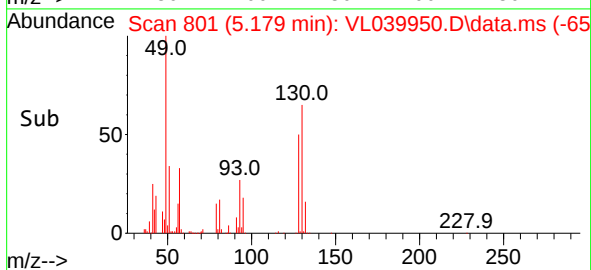
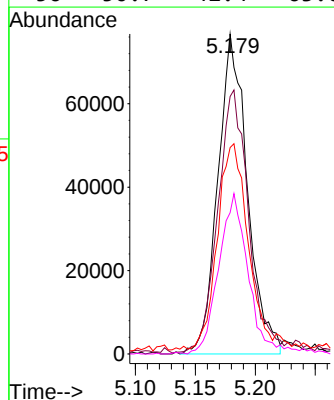
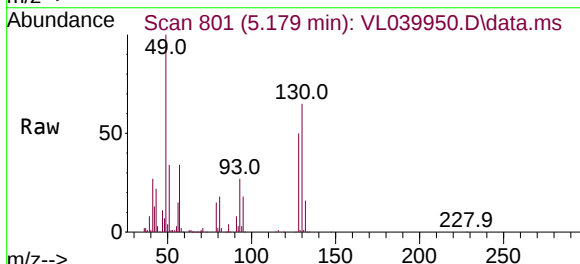
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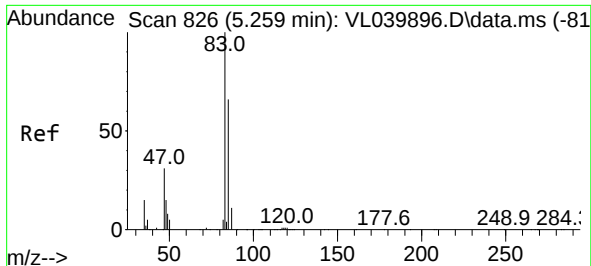
Tgt Ion:	43	Resp:	88173
Ion	Ratio	Lower	Upper
43	100		
45	2.7	8.4	12.6#
61	0.5	8.5	12.7#
70	2.1	5.9	8.9#



#26
Hexane
Concen: 0.941 ppbv
RT: 5.179 min Scan# 801
Delta R.T. -0.016 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

Tgt Ion:	57	Resp:	131144
Ion	Ratio	Lower	Upper
57	100		
41	87.3	72.3	108.5
43	73.9	188.7	283.1#
56	50.7	42.4	63.6





#29

Chloroform

Concen: 0.088 ppbv

RT: 5.240 min Scan# 81

Delta R.T. -0.016 min

Lab File: VL039950.D

Acq: 1 Dec 2022 20:18

Instrument :

MSVOA_L

ClientSampleId :

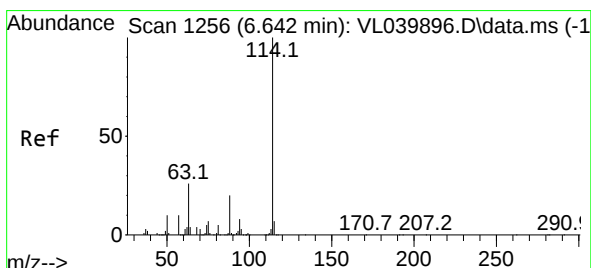
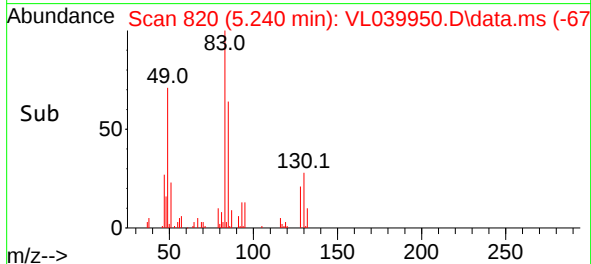
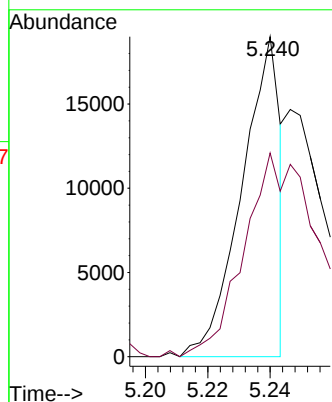
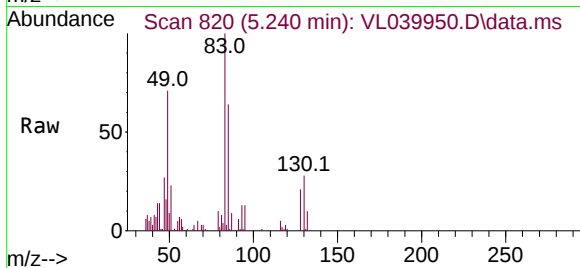
OTC-SSDL

Tgt Ion: 83 Resp: 16307

Ion Ratio Lower Upper

83 100

85 63.6 52.4 78.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.623 min Scan# 1250

Delta R.T. -0.013 min

Lab File: VL039950.D

Acq: 1 Dec 2022 20:18

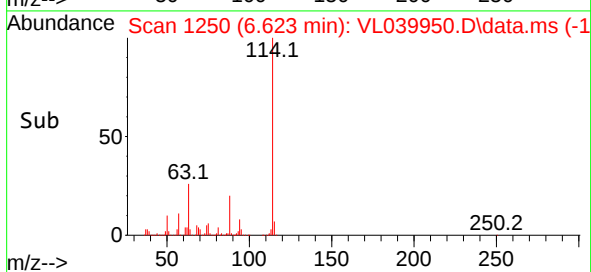
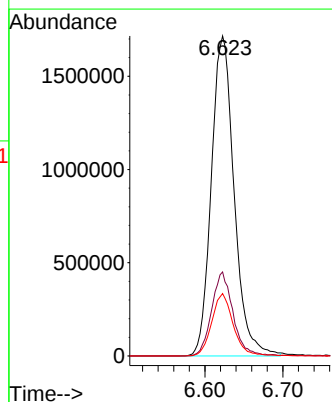
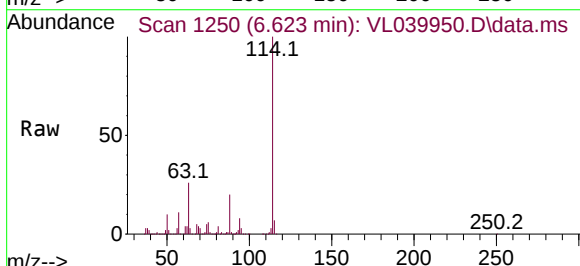
Tgt Ion: 114 Resp: 3486626

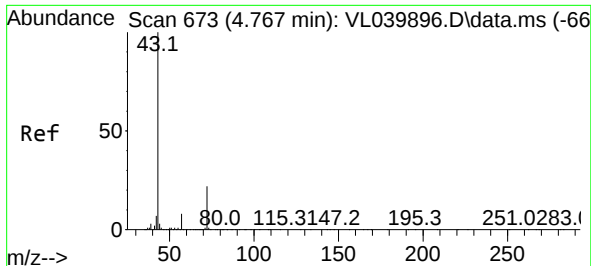
Ion Ratio Lower Upper

114 100

63 24.8 21.4 32.0

88 18.5 15.3 22.9

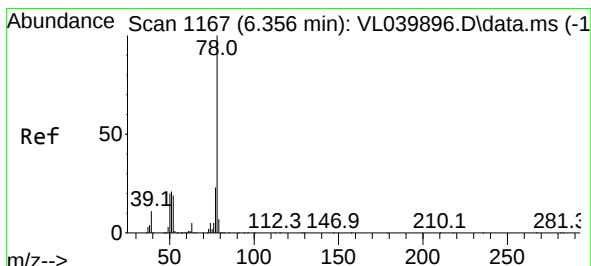
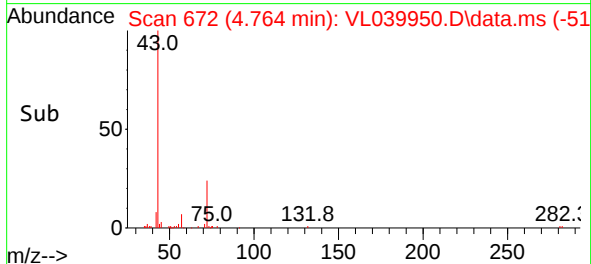
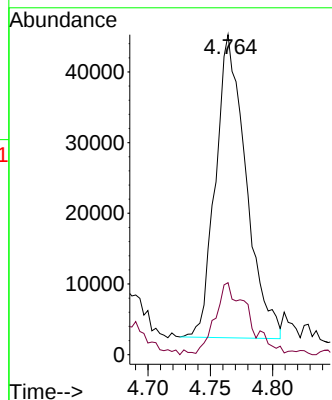
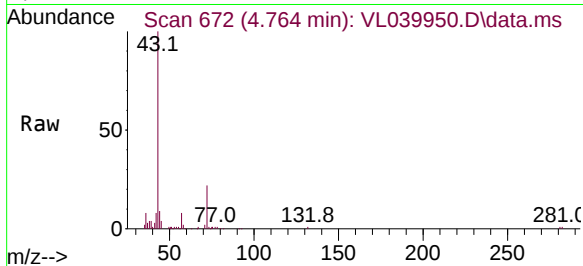




#34
2-Butanone
Concen: 0.436 ppbv
RT: 4.764 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

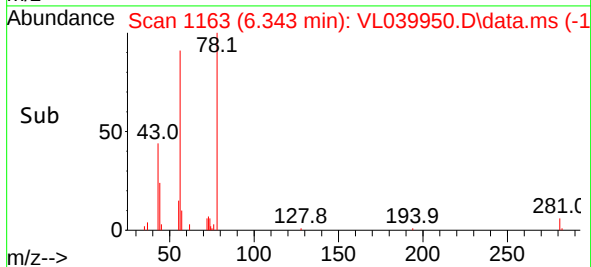
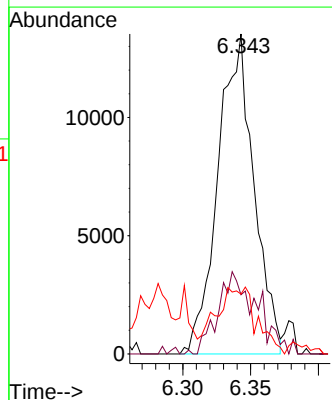
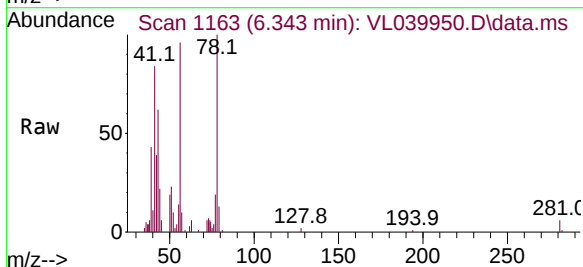
Instrument :
MSVOA_L
ClientSampleId :
OTC-SSDL

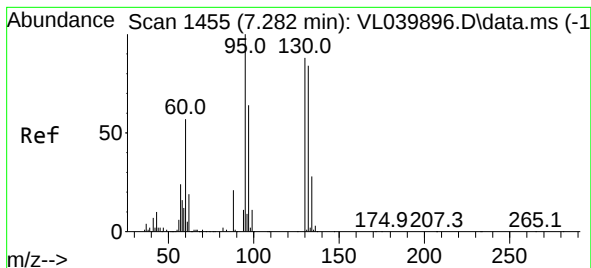
Tgt Ion: 43 Resp: 72820
Ion Ratio Lower Upper
43 100
72 27.4 17.4 26.2#



#36
Benzene
Concen: 0.084 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. -0.010 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

Tgt Ion: 78 Resp: 24917
Ion Ratio Lower Upper
78 100
77 18.5 18.2 27.2
50 16.6 15.8 23.8





#38

Trichloroethene

Concen: 0.142 ppbv

RT: 7.259 min Scan# 1455

Delta R.T. -0.016 min

Lab File: VL039950.D

Acq: 1 Dec 2022 20:18

Instrument :

MSVOA_L

ClientSampleId :

OTC-SSDL

Tgt Ion:130 Resp: 23563

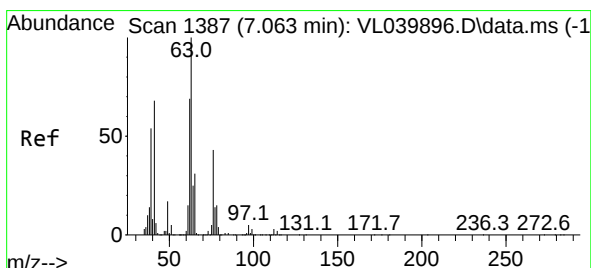
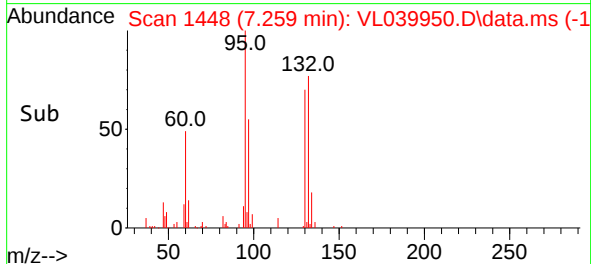
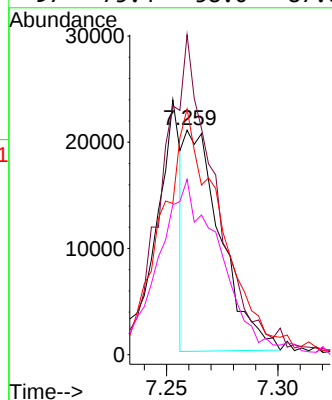
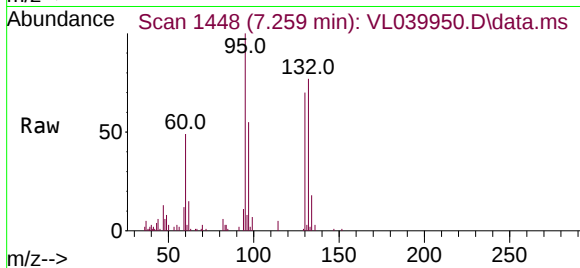
Ion Ratio Lower Upper

130 100

95 133.4 90.6 135.8

132 103.8 76.2 114.4

97 75.4 58.0 87.0



#39

1,2-Dichloropropane

Concen: 7.391 ppbv

RT: 6.623 min Scan# 1250

Delta R.T. -0.434 min

Lab File: VL039950.D

Acq: 1 Dec 2022 20:18

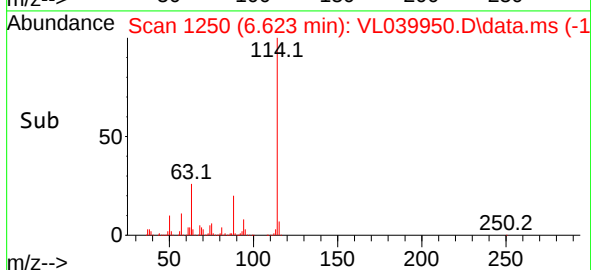
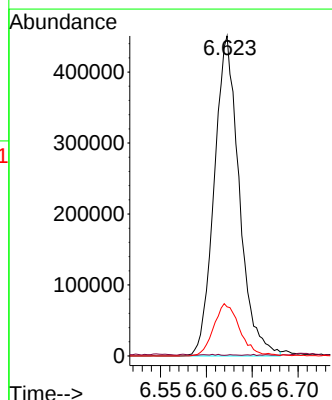
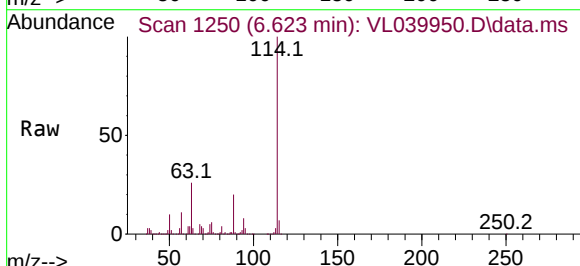
Tgt Ion: 63 Resp: 853429

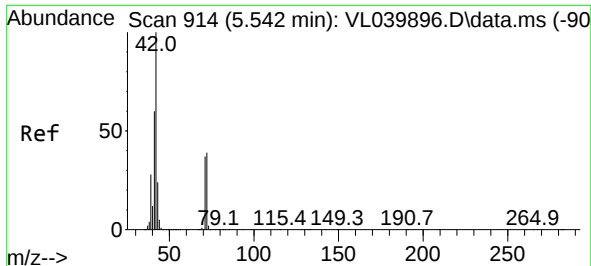
Ion Ratio Lower Upper

63 100

41 0.1 54.7 82.1#

62 15.3 55.0 82.6#





#41

Tetrahydrofuran

Concen: 0.048 ppbv

RT: 5.513 min Scan# 905

Delta R.T. -0.026 min

Lab File: VL039950.D

Acq: 1 Dec 2022 20:18

Instrument :

MSVOA_L

ClientSampleId :

OTC-SSDL

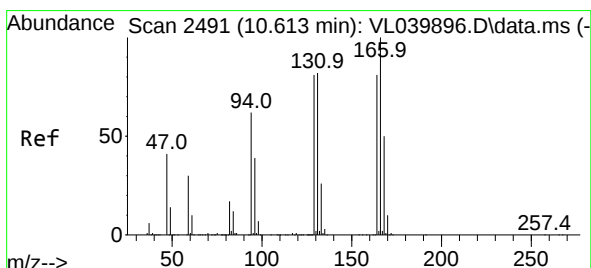
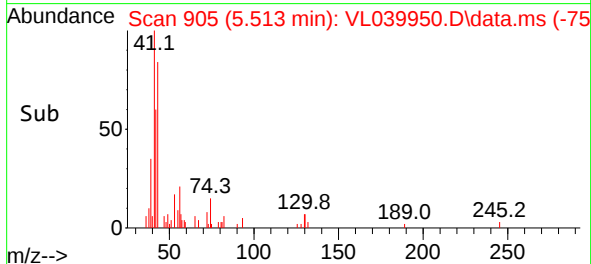
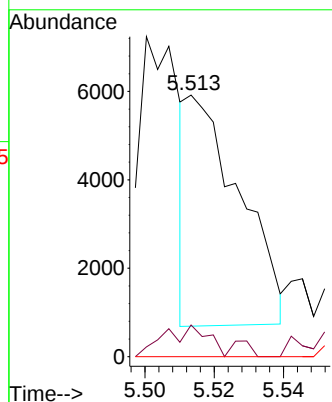
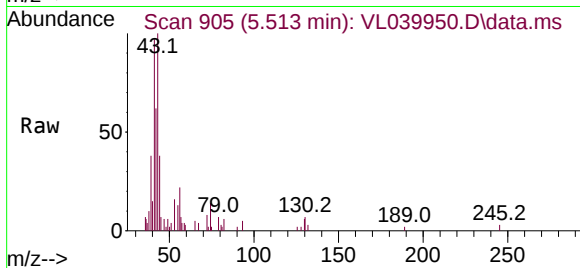
Tgt Ion: 42 Resp: 5513

Ion Ratio Lower Upper

42 100

72 22.2 31.6 47.4#

71 0.0 31.2 46.8#



#52

Tetrachloroethene

Concen: 136.649 ppbv

RT: 10.606 min Scan# 2489

Delta R.T. 0.003 min

Lab File: VL039950.D

Acq: 1 Dec 2022 20:18

Tgt Ion:164 Resp:15149915

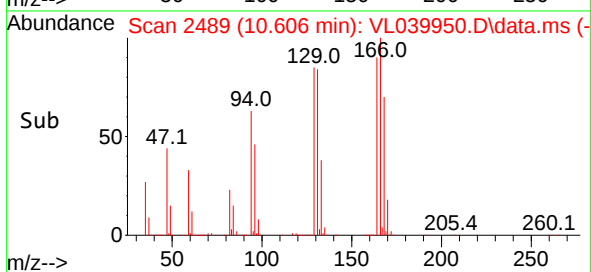
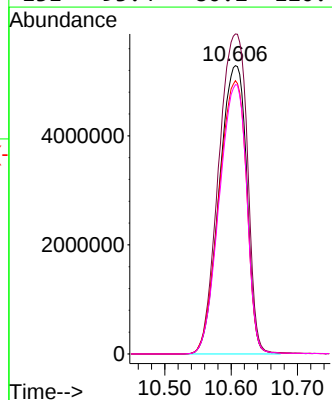
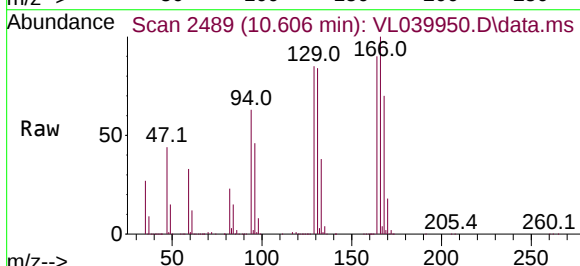
Ion Ratio Lower Upper

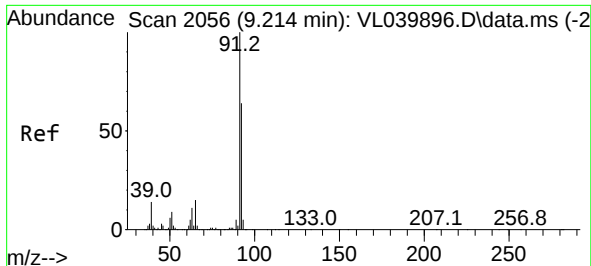
164 100

166 111.0 98.3 147.5

129 94.8 79.7 119.5

131 93.4 80.2 120.4

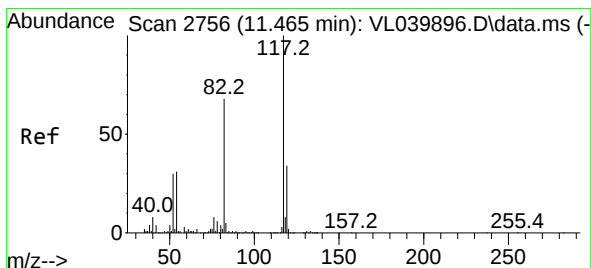
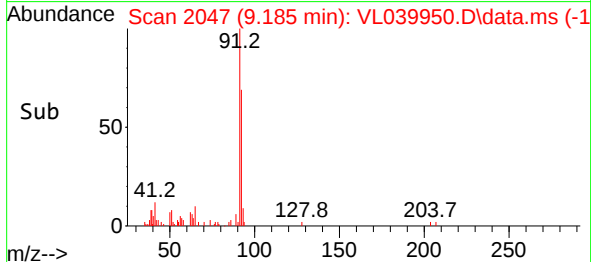
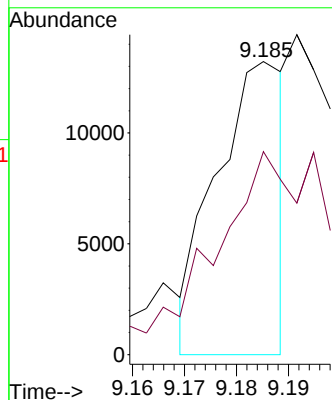
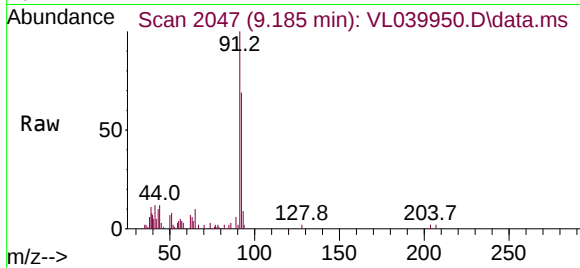




#53
Toluene
Concen: 0.035 ppbv
RT: 9.185 min Scan# 2056
Delta R.T. -0.019 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

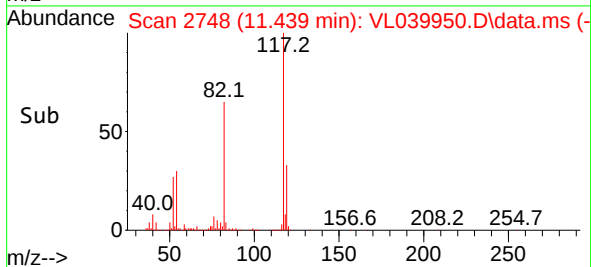
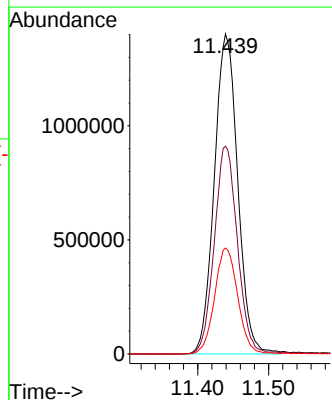
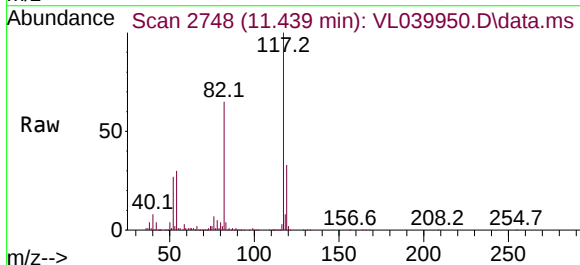
Instrument :
MSVOA_L
ClientSampleId :
OTC-SSDL

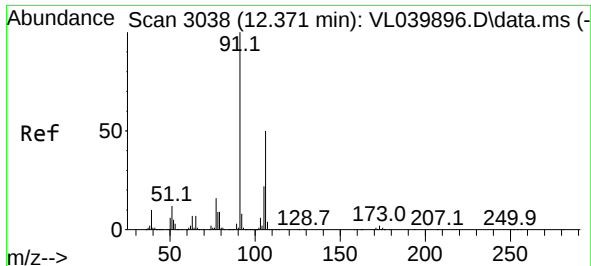
Tgt Ion: 91 Resp: 11914
Ion Ratio Lower Upper
91 100
92 166.1 49.8 74.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. -0.013 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

Tgt Ion: 117 Resp: 3223084
Ion Ratio Lower Upper
117 100
82 64.8 52.3 78.5
119 33.0 25.7 38.5





#59

m/p-Xylene

Concen: 0.037 ppbv

RT: 12.346 min Scan# 3038

Delta R.T. -0.013 min

Lab File: VL039950.D

Acq: 1 Dec 2022 20:18

Instrument :

MSVOA_L

ClientSampleId :

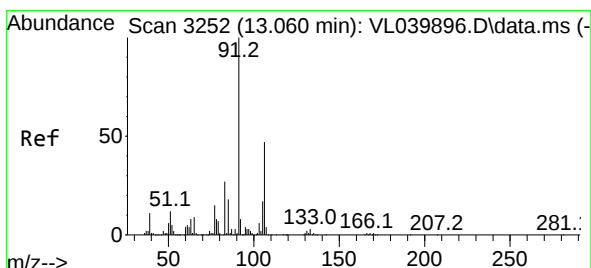
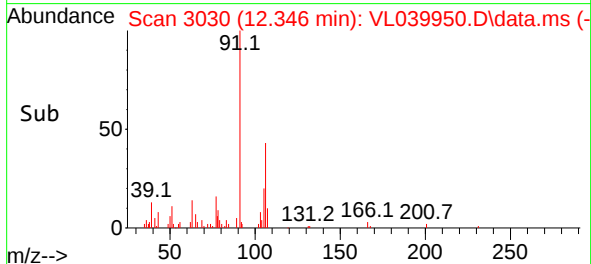
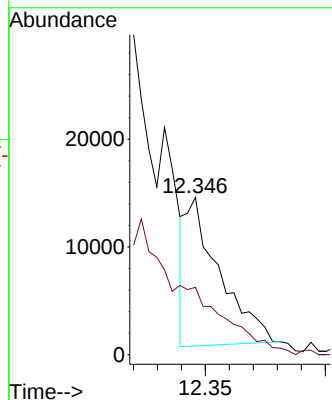
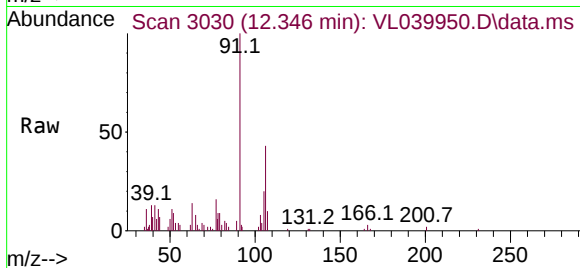
OTC-SSDL

Tgt Ion: 91 Resp: 13538

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#



#60

o-Xylene

Concen: 0.067 ppbv

RT: 13.034 min Scan# 3244

Delta R.T. -0.013 min

Lab File: VL039950.D

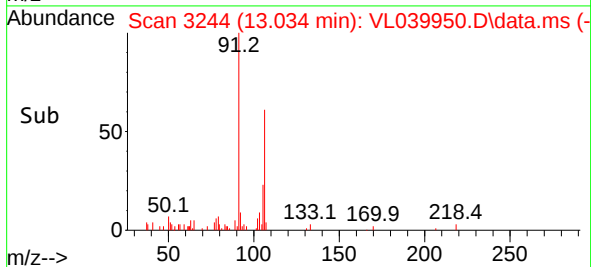
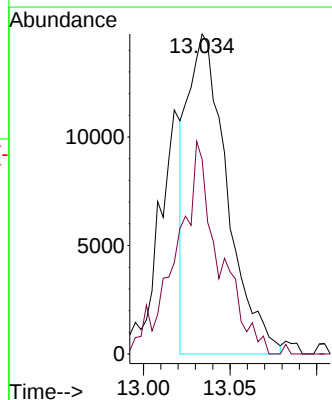
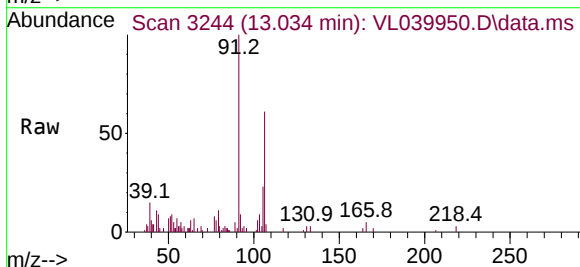
Acq: 1 Dec 2022 20:18

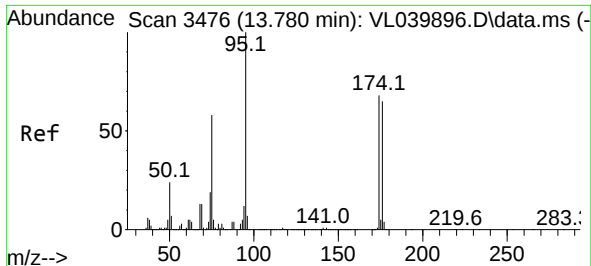
Tgt Ion: 91 Resp: 23549

Ion Ratio Lower Upper

91 100

106 71.8 23.2 69.6#

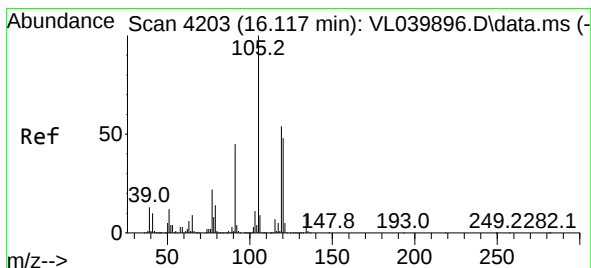
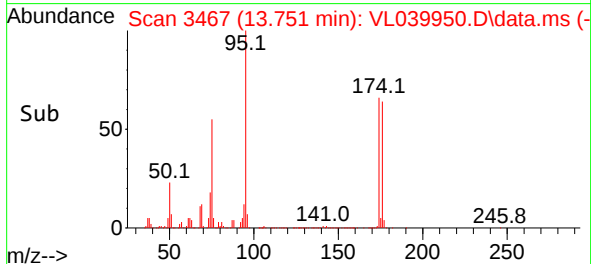
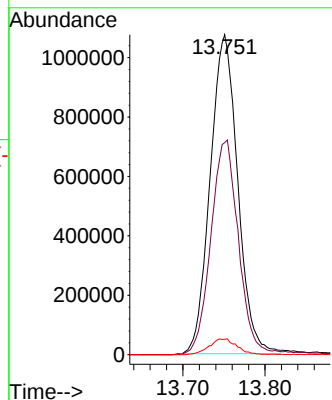
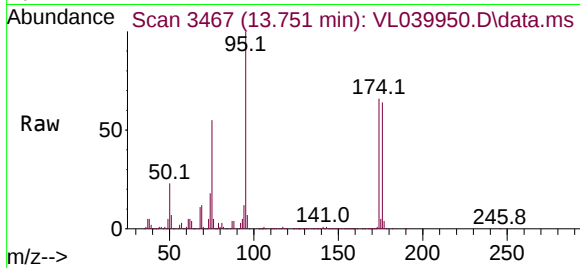




#68
1-Bromo-4-Fluorobenzene
Concen: 10.173 ppbv
RT: 13.751 min Scan# 3476
Delta R.T. -0.013 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

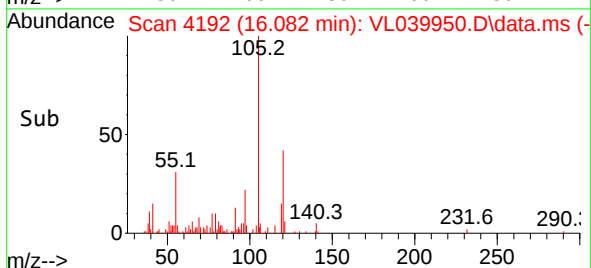
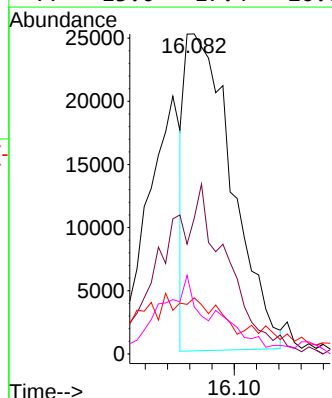
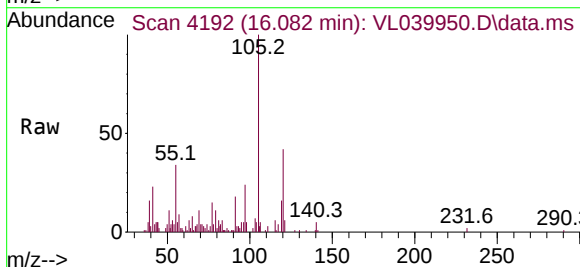
Instrument :
MSVOA_L
ClientSampleId :
OTC-SSDL

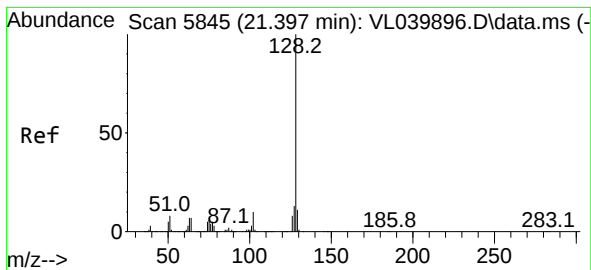
Tgt Ion: 95 Resp: 2504463
Ion Ratio Lower Upper
95 100
174 68.8 53.7 80.5
175 5.1 4.0 6.0



#74
1,2,4-Trimethylbenzene
Concen: 0.097 ppbv
RT: 16.082 min Scan# 4192
Delta R.T. -0.016 min
Lab File: VL039950.D
Acq: 1 Dec 2022 20:18

Tgt Ion: 105 Resp: 36766
Ion Ratio Lower Upper
105 100
120 39.4 38.7 58.1
91 14.1 36.4 54.6#
77 13.0 17.4 26.0#





#79

Naphthalene

Concen: 0.069 ppbv

RT: 21.352 min Scan# 5831

Delta R.T. -0.019 min

Lab File: VL039950.D

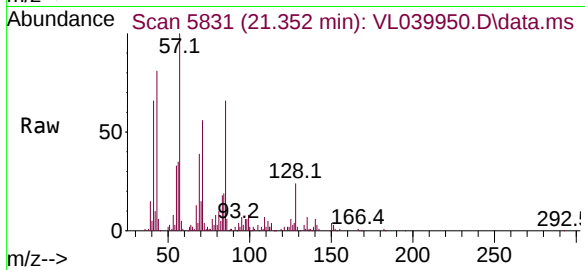
Acq: 1 Dec 2022 20:18

Instrument :

MSVOA_L

ClientSampleId :

OTC-SSDL



Tgt Ion:128 Resp: 15649

Ion Ratio Lower Upper

128 100

127 7.0 10.0 15.0#

129 0.0 8.8 13.2#

