

Data File : VL033869.D
Acq On : 30 May 2019 13:52
Operator : SY/AP
Sample : K3067-09DL 5.4X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-ODL

Quant Time: May 31 07:07:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	690502	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1543447	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1545800	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1245792	9.94	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

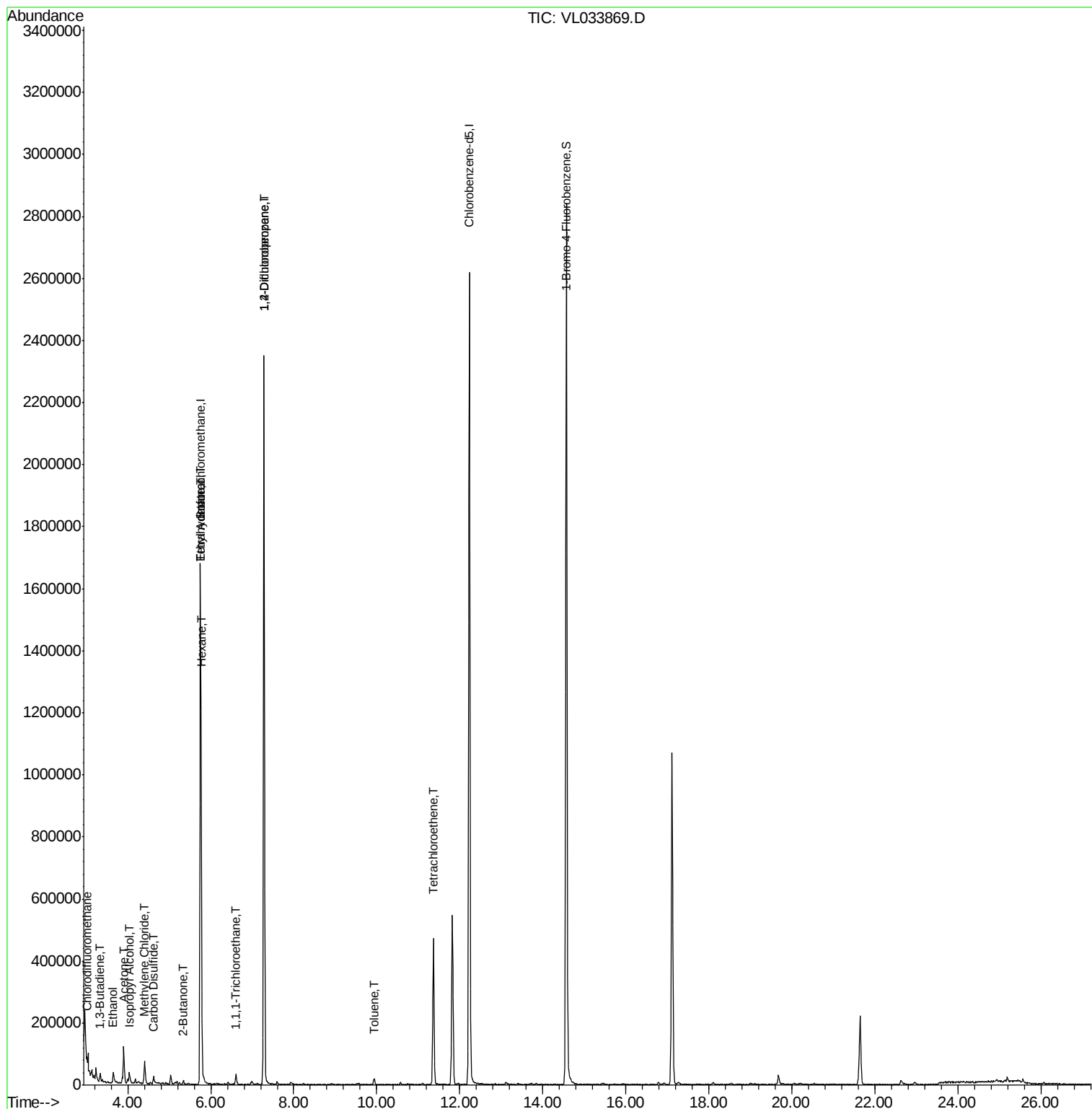
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.01	51	7800	0.099	ppbv #	78
13) Ethanol	3.65	45	14808	1.362	ppbv #	38
15) Acetone	3.90	43	113248	1.182	ppbv	97
16) 1,3-Butadiene	3.34	39	1909	0.050	ppbv #	6
19) Isopropyl Alcohol	4.04	45	34293	0.555	ppbv #	87
20) Methylene Chloride	4.40	84	20604	0.559	ppbv	91
25) Ethyl Acetate	5.77	43	121311	0.721	ppbv #	79
26) Hexane	5.78	57	172730	2.387	ppbv #	37
27) Carbon Disulfide	4.62	76	3651	0.037	ppbv #	1
32) 1,1,1-Trichloroethane	6.61	97	19059	0.143	ppbv	94
34) 2-Butanone	5.34	43	12628	0.132	ppbv #	88
39) 1,2-Dichloropropane	7.28	63	412210	7.875	ppbv #	24
41) Tetrahydrofuran	5.77	42	67888	1.266	ppbv #	49
52) Tetrachloroethene	11.36	164	111420	2.258	ppbv	96
53) Toluene	9.94	91	13212	0.087	ppbv	98

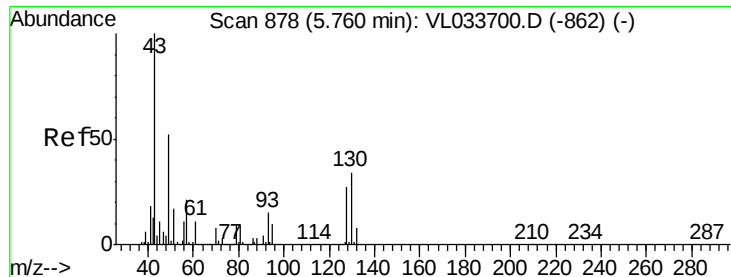
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

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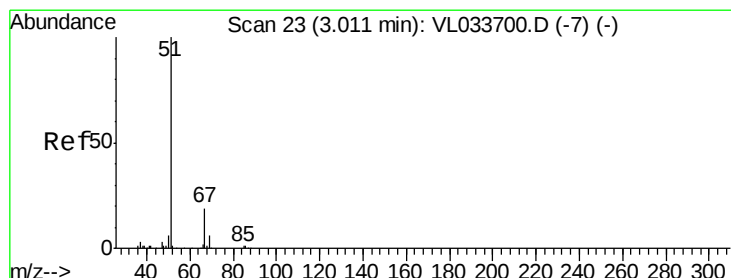
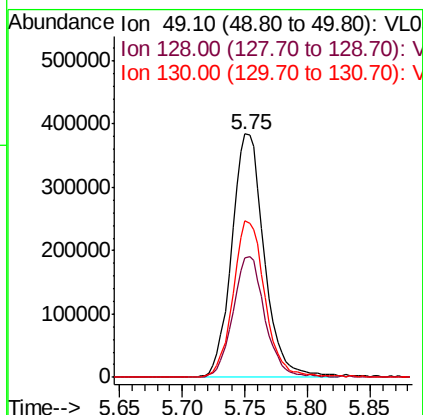
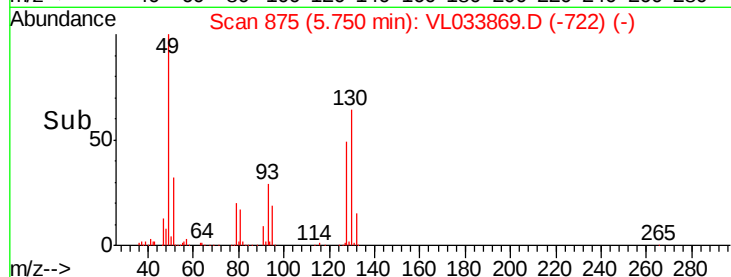
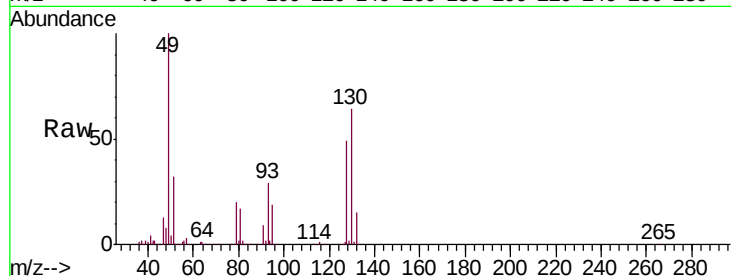
Tgt Ion: 49 Resp: 690502

Ion Ratio Lower Upper

49 100

128 48.7 25.2 75.6

130 63.8 32.5 97.5



#3

Chlorodifluoromethane

Concen: 0.099 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL033869.D

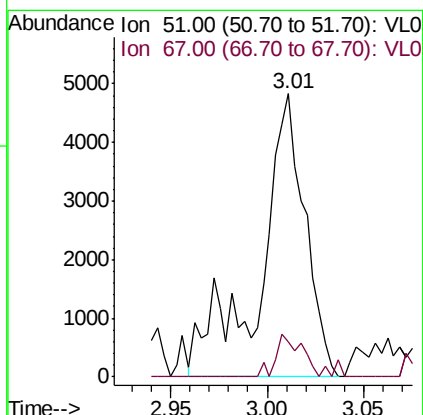
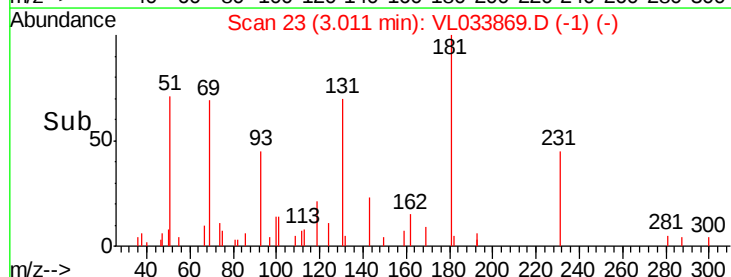
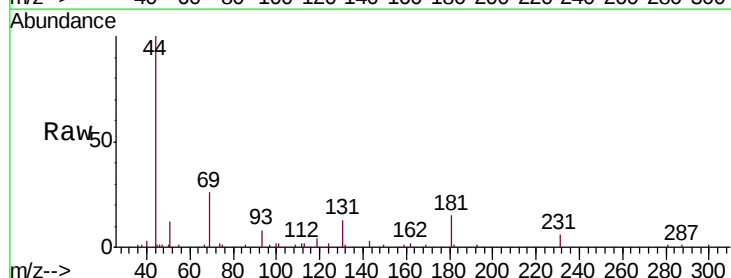
Acq: 30 May 2019 13:52

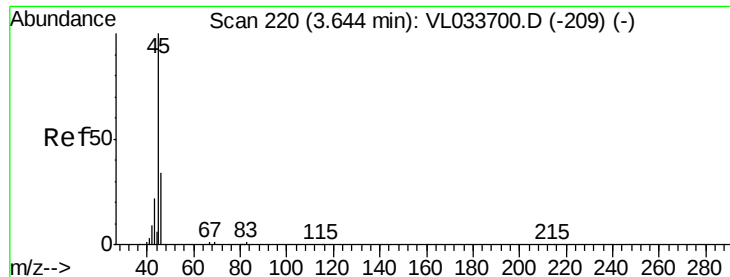
Tgt Ion: 51 Resp: 7800

Ion Ratio Lower Upper

51 100

67 9.7 15.6 23.4#





#13

Ethanol

Concen: 1.362 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033869.D

Acq: 30 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

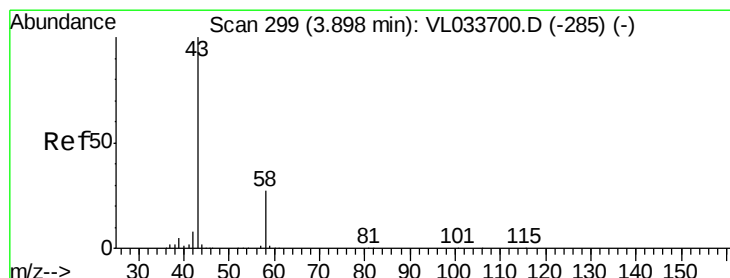
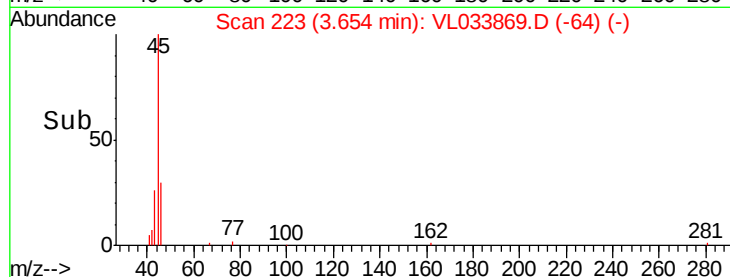
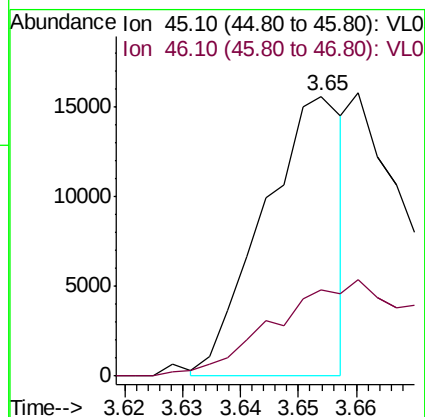
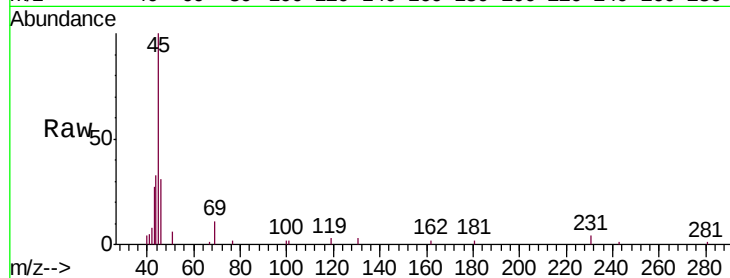
SG-23-20190523-ODL

Tgt Ion: 45 Resp: 14808

Ion Ratio Lower Upper

45 100

46 0.0 14.8 59.0#



#15

Acetone

Concen: 1.182 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033869.D

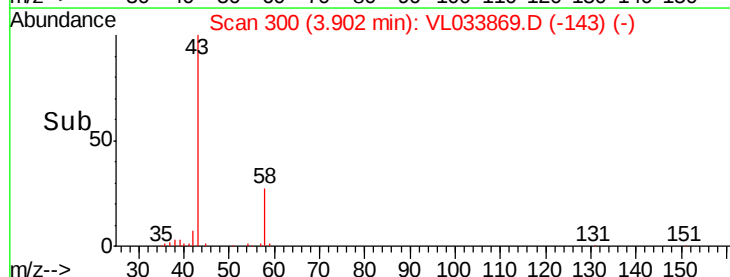
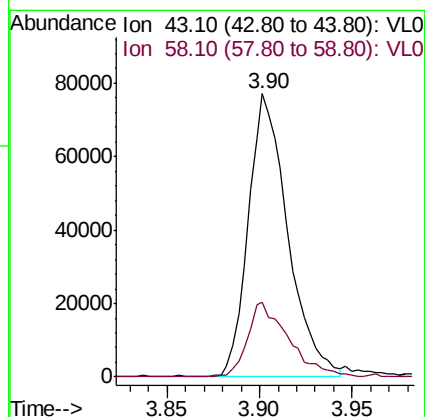
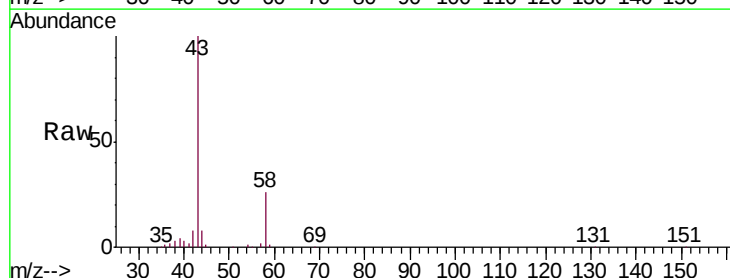
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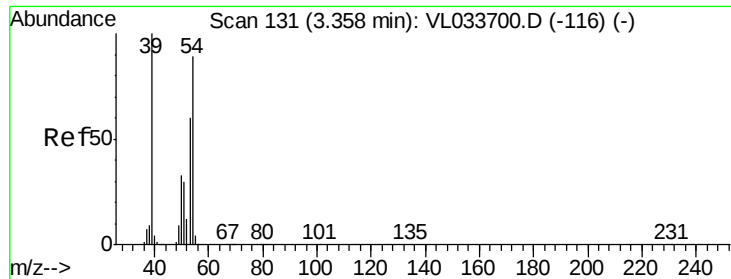
Tgt Ion: 43 Resp: 113248

Ion Ratio Lower Upper

43 100

58 28.0 21.3 31.9

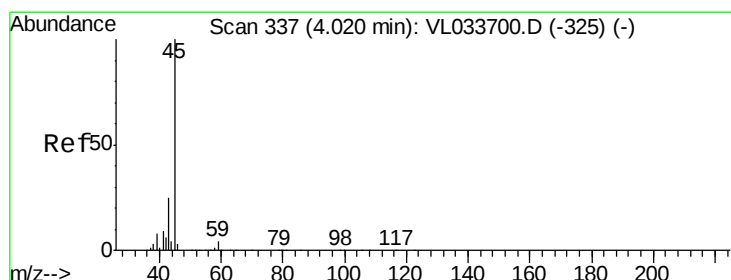
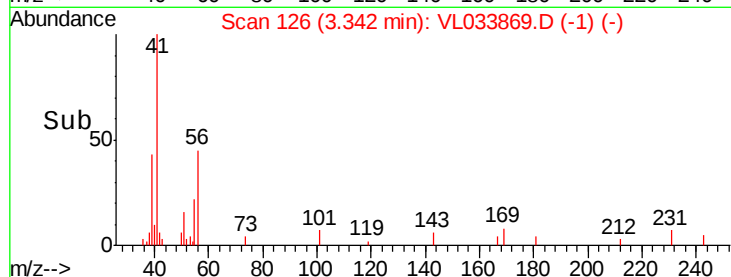
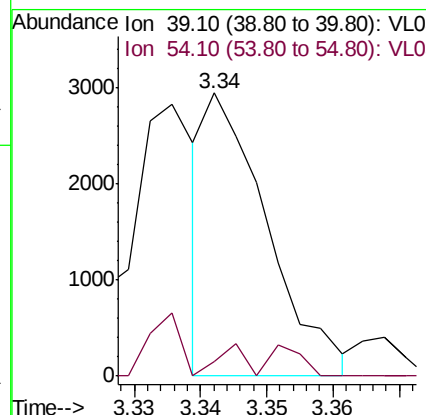
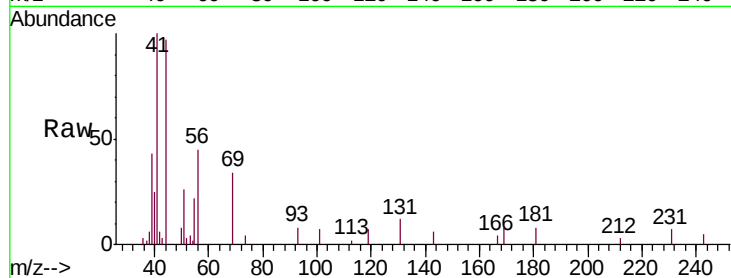




#16
1,3-Butadiene
Concen: 0.050 ppbv
RT: 3.34 min Scan# 126
Delta R.T. -0.02 min
Lab File: VL033869.D
Acq: 30 May 2019 13:52

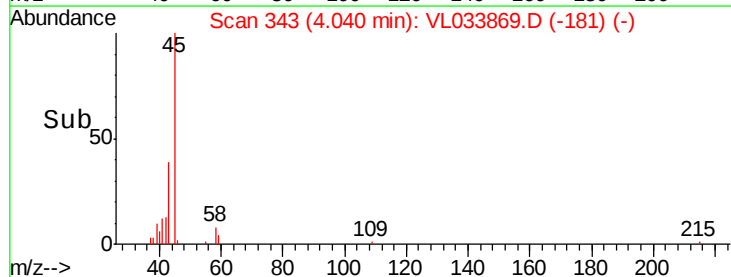
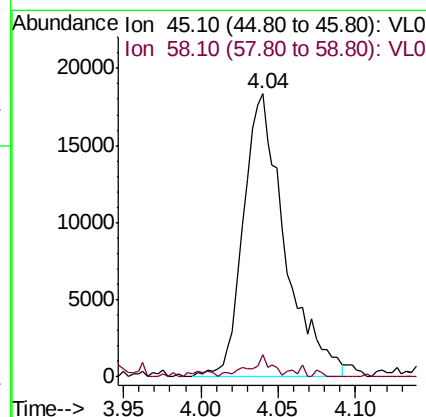
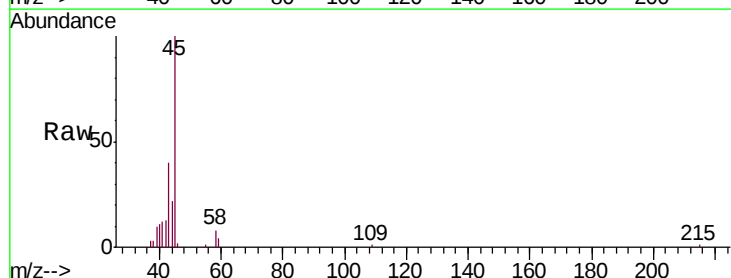
Instrument :
MSVOA_L
ClientSampleId :
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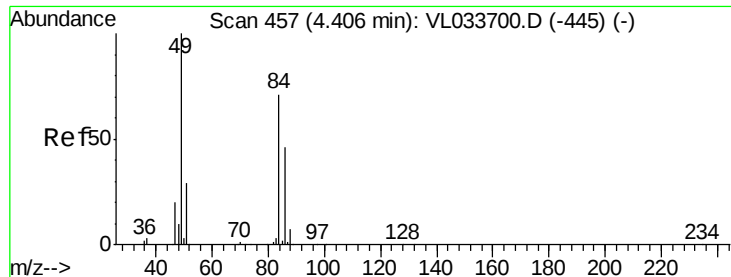
Tgt Ion: 39 Resp: 1909
Ion Ratio Lower Upper
39 100
54 0.0 69.0 103.6#



#19
Isopropyl Alcohol
Concen: 0.555 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033869.D
Acq: 30 May 2019 13:52

Tgt Ion: 45 Resp: 34293
Ion Ratio Lower Upper
45 100
58 6.5 1.6 2.4#

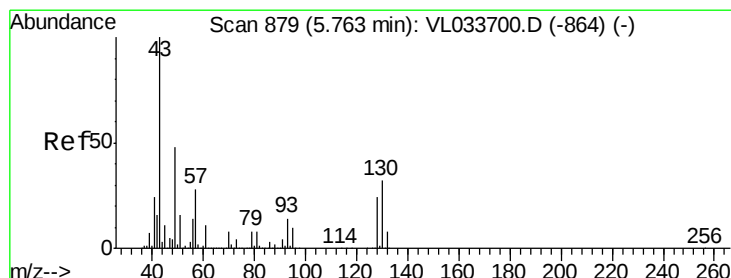
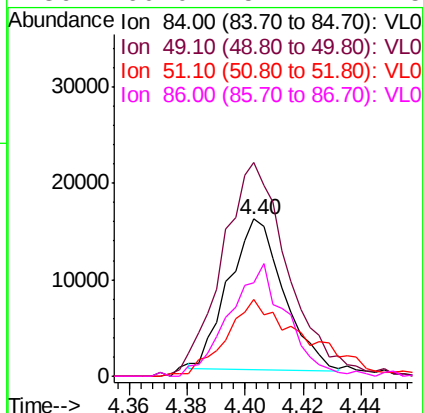
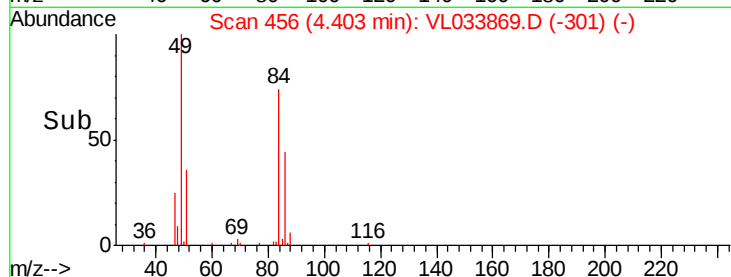
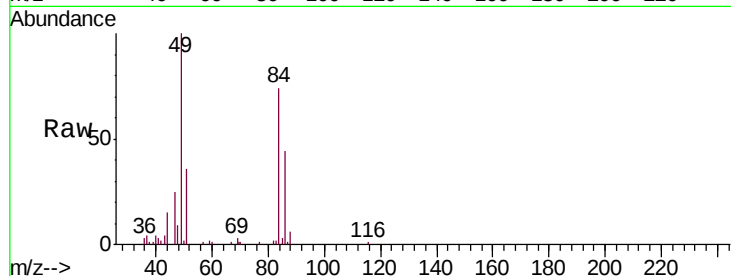




#20
Methylene Chloride
Concen: 0.559 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033869.D
Acq: 30 May 2019 13:52

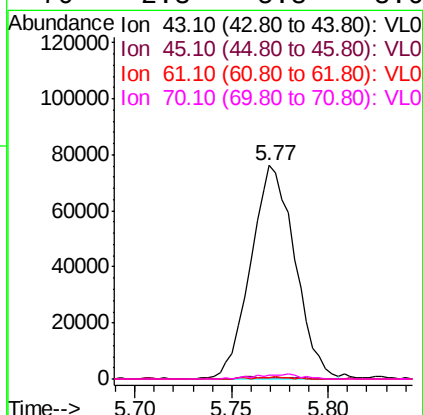
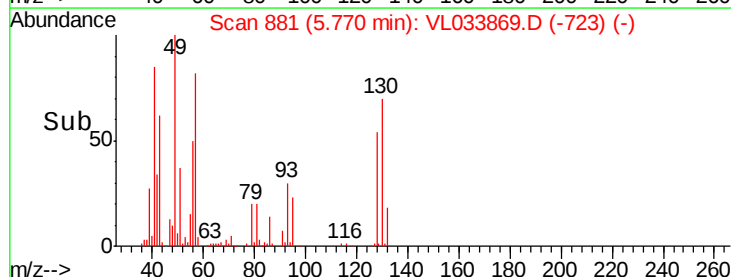
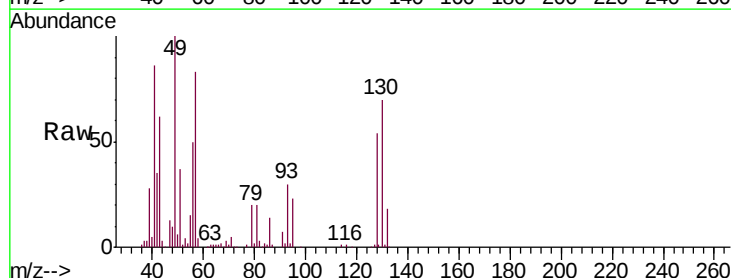
Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-ODL

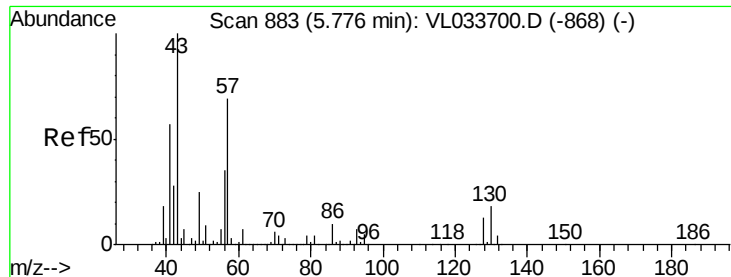
Tgt Ion:	84	Resp:	20604
Ion	Ratio	Lower	Upper
84	100		
49	129.4	112.8	169.2
51	49.4	33.4	50.0
86	60.0	51.7	77.5



#25
Ethyl Acetate
Concen: 0.721 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033869.D
Acq: 30 May 2019 13:52

Tgt Ion:	43	Resp:	121311
Ion	Ratio	Lower	Upper
43	100		
45	1.1	7.9	11.9#
61	0.7	7.7	11.5#
70	2.3	5.8	8.6#

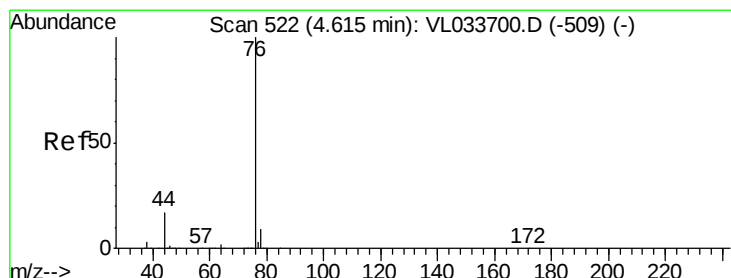
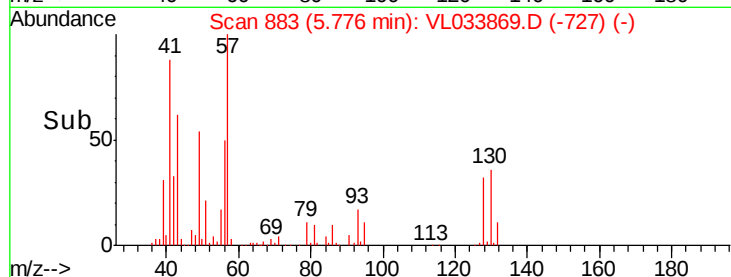
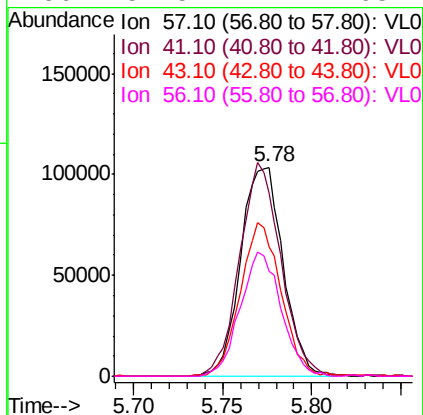
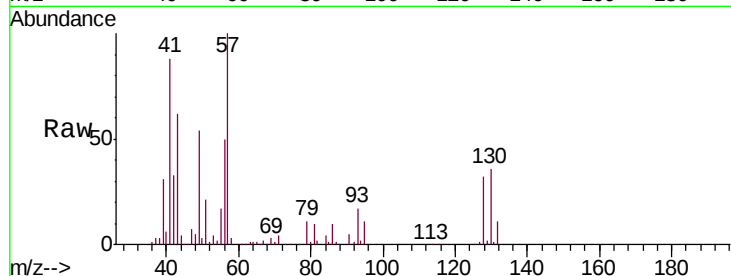




#26
Hexane
Concen: 2.387 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033869.D
Acq: 30 May 2019 13:52

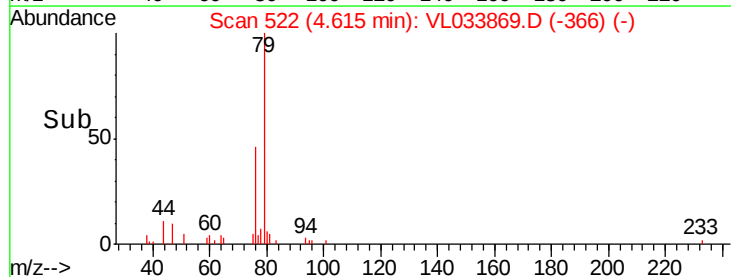
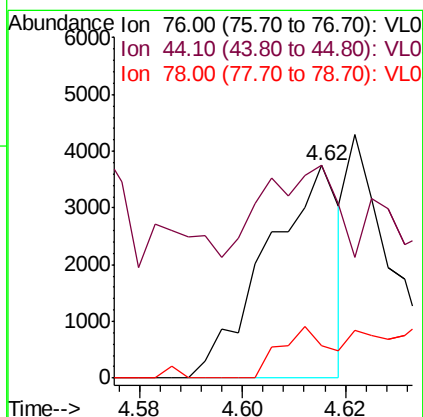
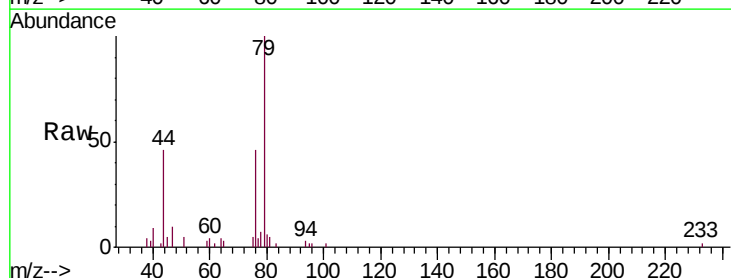
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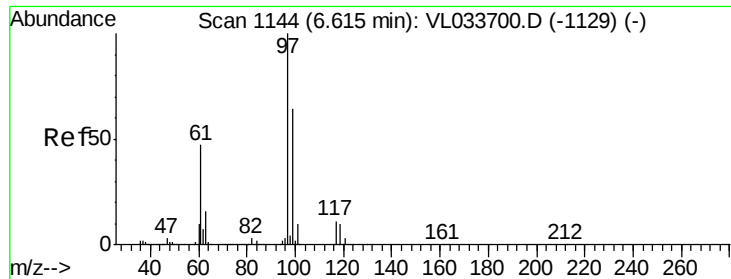
Tgt Ion: 57 Resp: 172730
Ion Ratio Lower Upper
57 100
41 99.4 69.8 104.6
43 71.4 181.8 272.6#
56 57.5 42.1 63.1



#27
Carbon Disulfide
Concen: 0.037 ppbv
RT: 4.62 min Scan# 522
Delta R.T. 0.00 min
Lab File: VL033869.D
Acq: 30 May 2019 13:52

Tgt Ion: 76 Resp: 3651
Ion Ratio Lower Upper
76 100
44 198.1 13.8 20.8#
78 0.0 7.4 11.0#





#32

1,1,1-Trichloroethane

Concen: 0.143 ppbv

RT: 6.61 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VL033869.D

Acq: 30 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-ODL

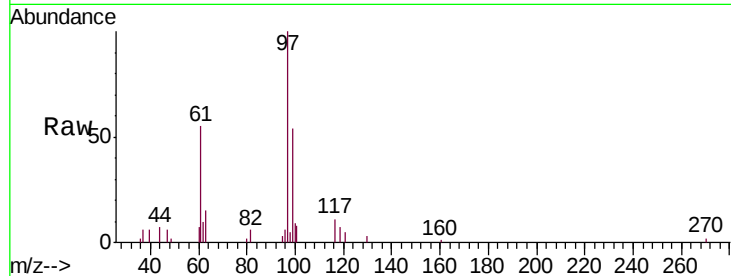
Tgt Ion: 97 Resp: 19059

Ion Ratio Lower Upper

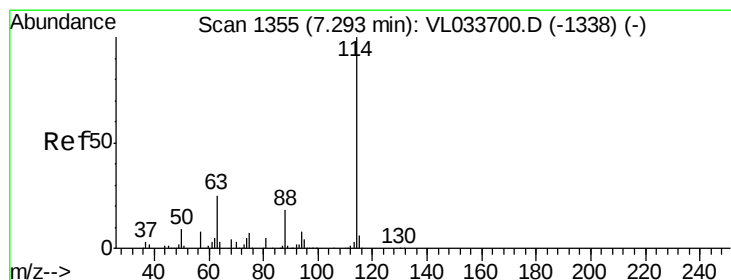
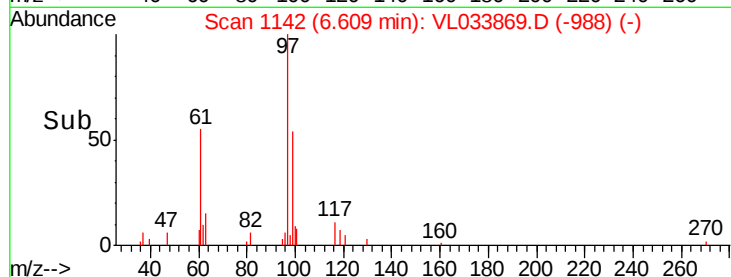
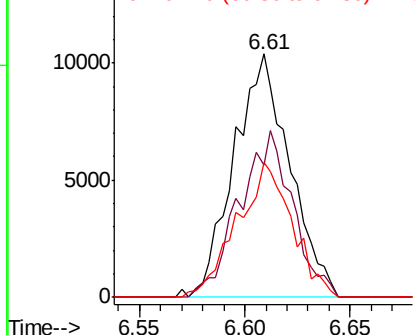
97 100

99 65.5 51.5 77.3

61 54.7 37.8 56.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.01 min

Lab File: VL033869.D

Acq: 30 May 2019 13:52

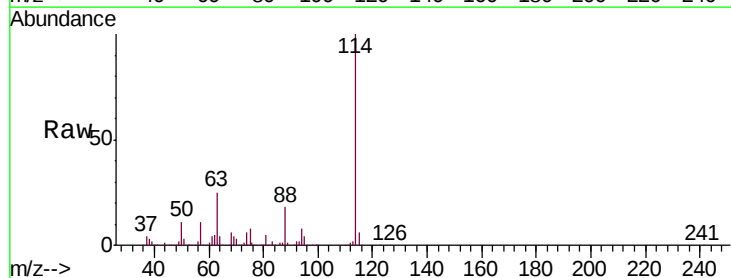
Tgt Ion: 114 Resp: 1543447

Ion Ratio Lower Upper

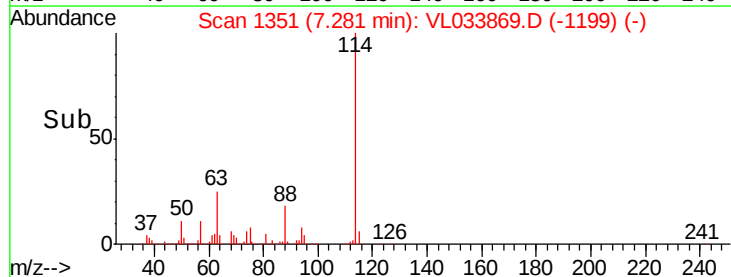
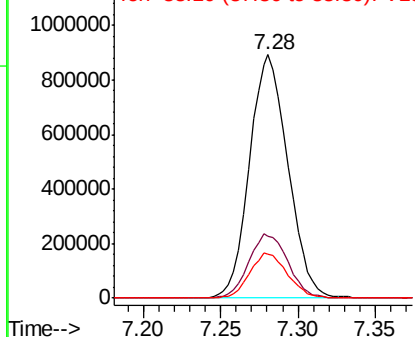
114 100

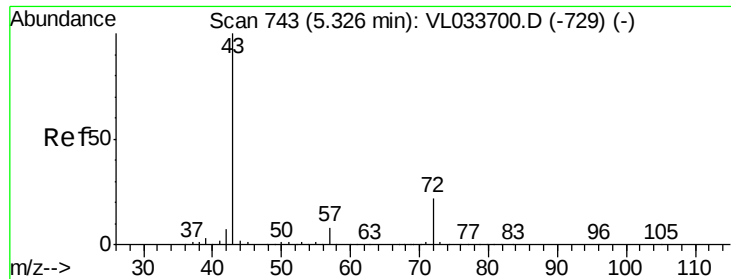
63 27.0 20.9 31.3

88 18.1 14.3 21.5



Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.132 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.01 min

Lab File: VL033869.D

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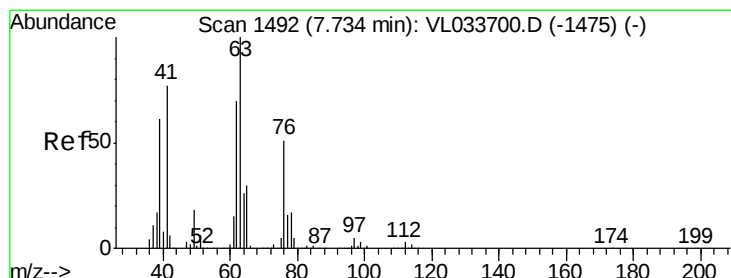
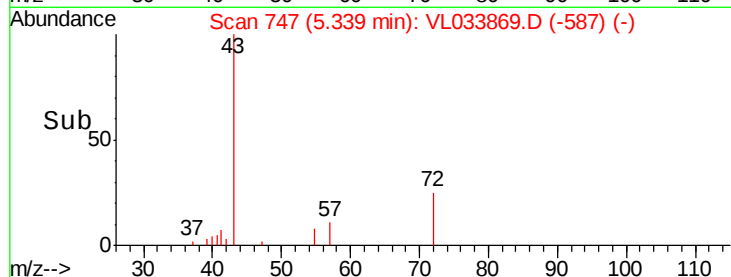
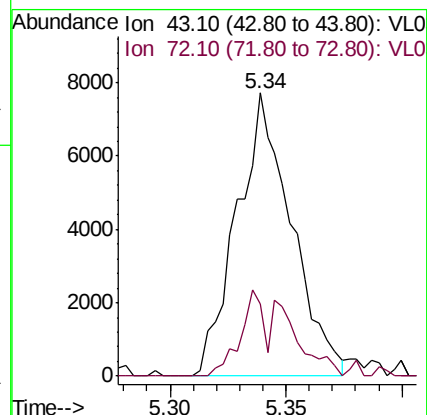
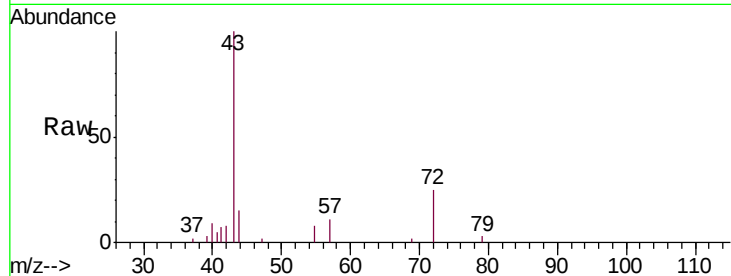
SG-23-20190523-ODL

Tgt Ion: 43 Resp: 12628

Ion Ratio Lower Upper

43 100

72 27.8 17.8 26.6#



#39

1,2-Dichloropropane

Concen: 7.875 ppbv

RT: 7.28 min Scan# 1350

Delta R.T. -0.46 min

Lab File: VL033869.D

Acq: 30 May 2019 13:52

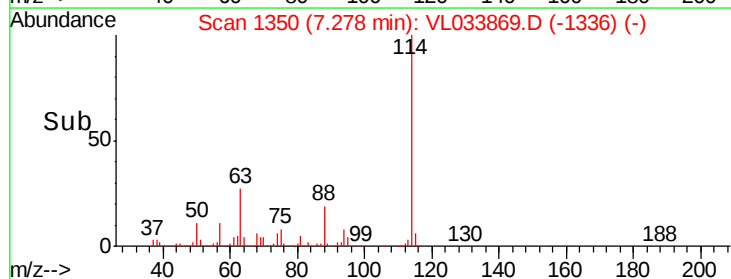
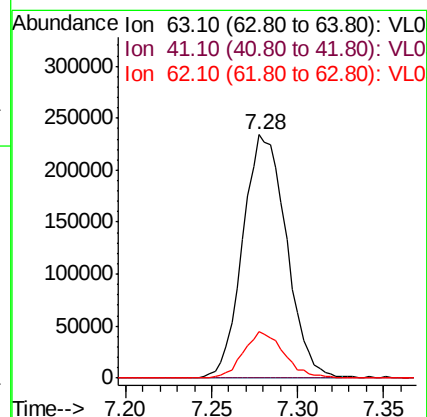
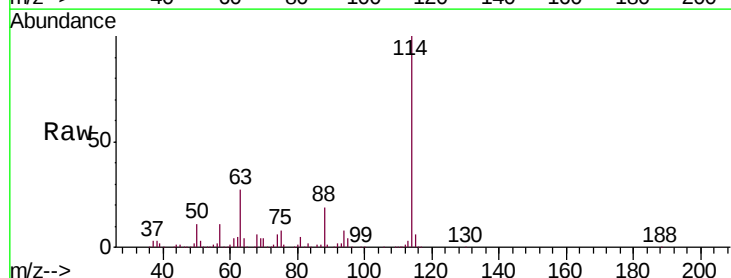
Tgt Ion: 63 Resp: 412210

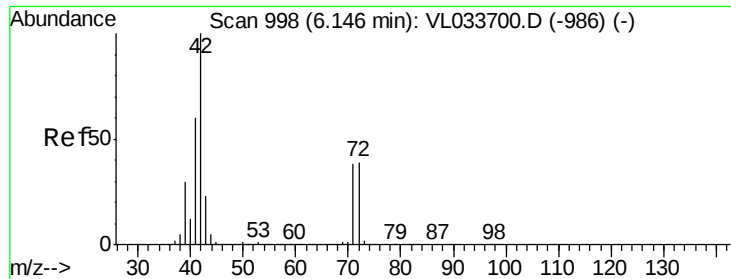
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 19.0 56.2 84.4#





#41

Tetrahydrofuran

Concen: 1.266 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.38 min

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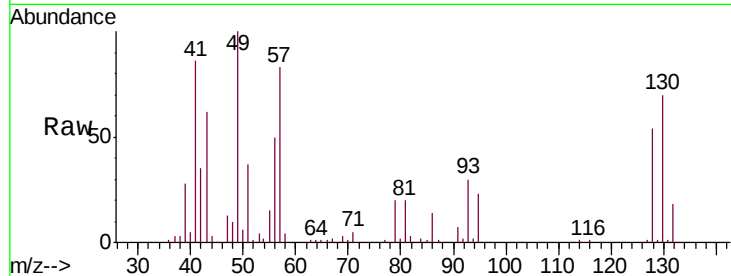
Tgt Ion: 42 Resp: 67888

Ion Ratio Lower Upper

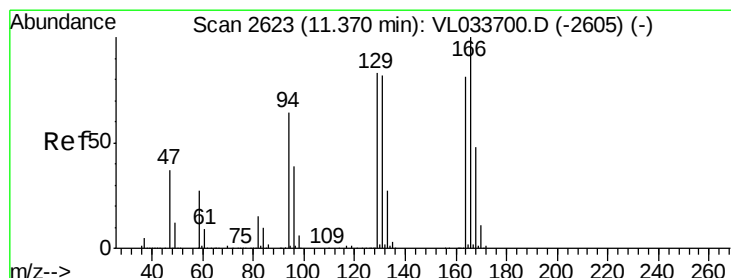
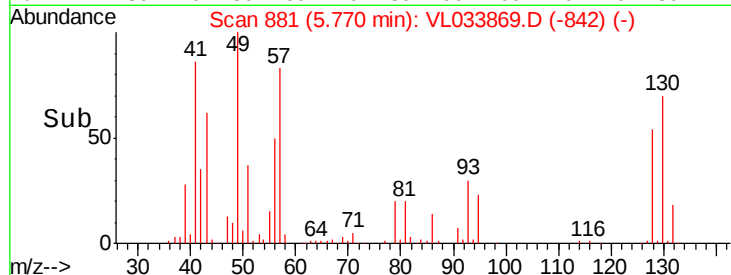
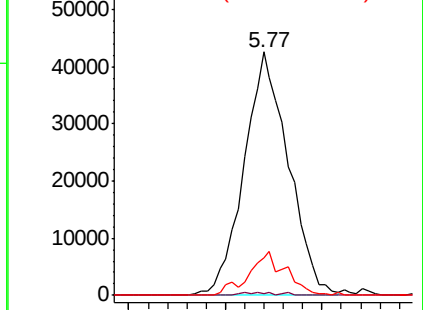
42 100

72 0.9 32.0 48.0#

71 15.2 30.4 45.6#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#52

Tetrachloroethene

Concen: 2.258 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL033869.D

Acq: 30 May 2019 13:52

Tgt Ion: 164 Resp: 111420

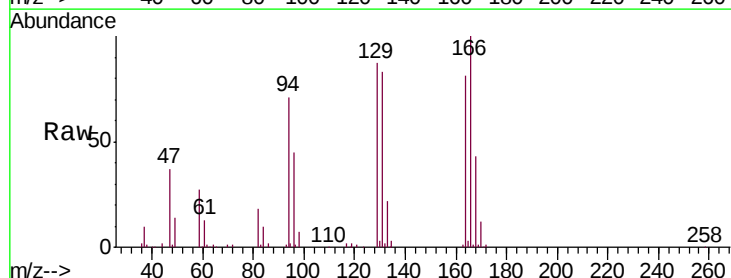
Ion Ratio Lower Upper

164 100

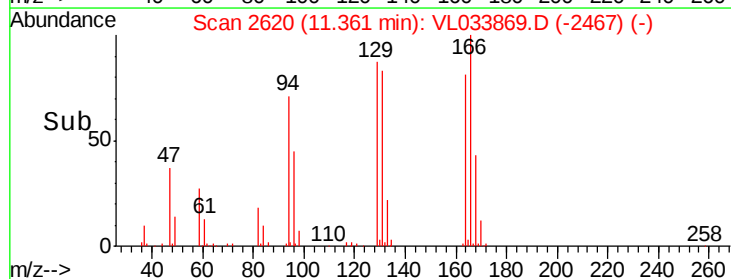
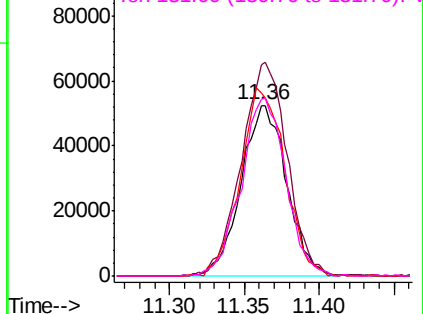
166 123.7 98.9 148.3

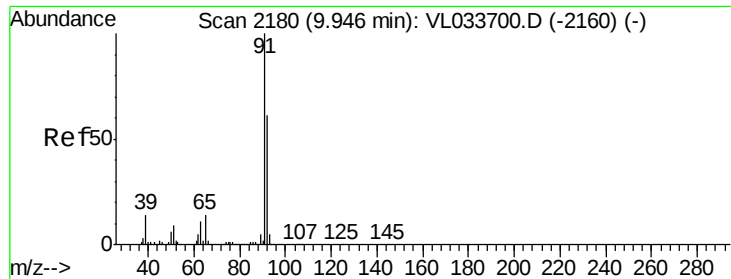
129 110.4 81.8 122.6

131 105.7 81.1 121.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.087 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033869.D

Acq: 30 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

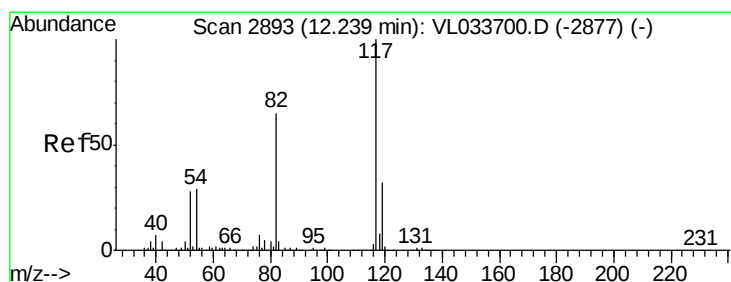
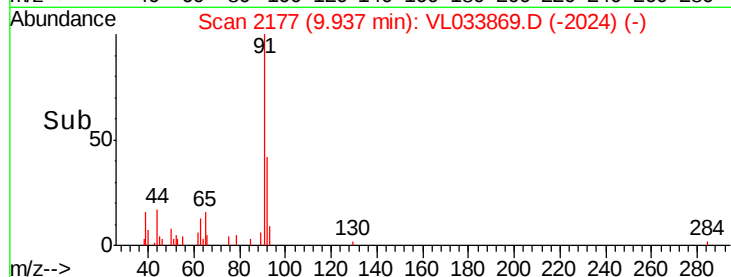
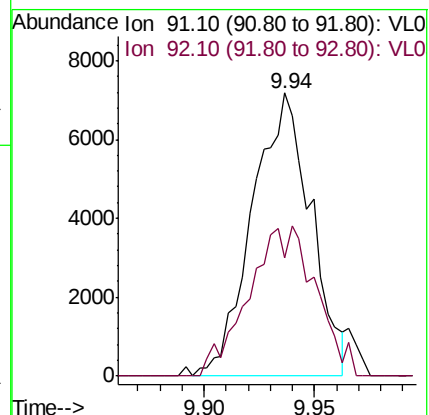
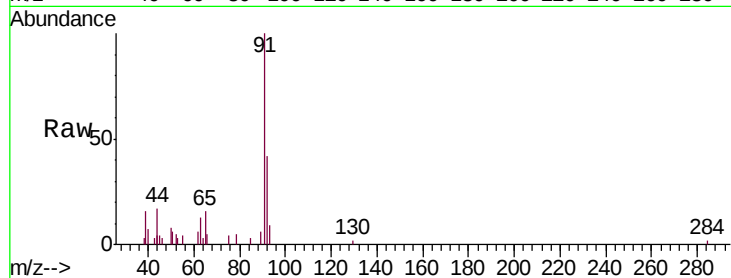
SG-23-20190523-ODL

Tgt Ion: 91 Resp: 13212

Ion Ratio Lower Upper

91 100

92 60.8 47.6 71.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033869.D

Acq: 30 May 2019 13:52

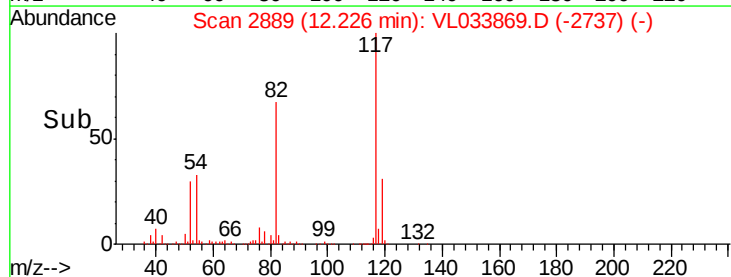
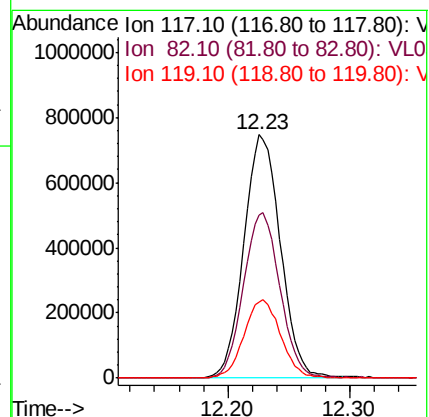
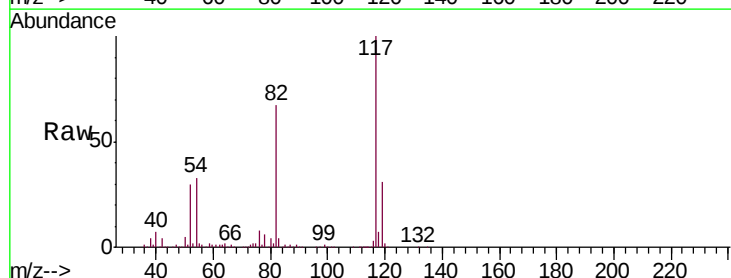
Tgt Ion: 117 Resp: 1545800

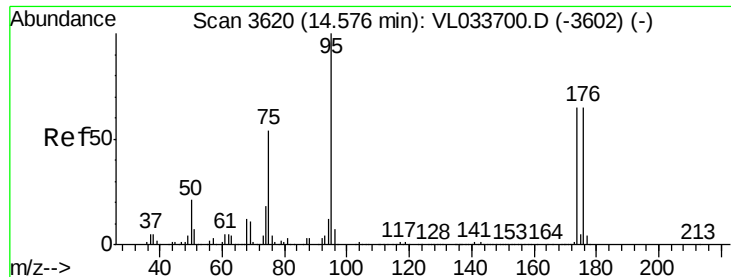
Ion Ratio Lower Upper

117 100

82 68.0 49.4 74.0

119 32.2 24.9 37.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.941 ppbv

RT: 14.56 min Scan# 3616

Delta R.T. -0.01 min

Lab File: VL033869.D

Acq: 30 May 2019 13:52

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-ODL

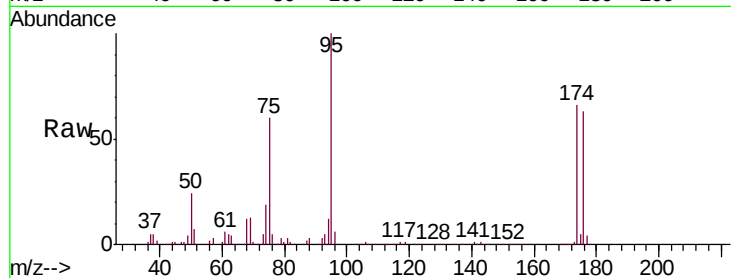
Tgt Ion: 95 Resp: 1245792

Ion Ratio Lower Upper

95 100

174 66.4 53.9 80.9

175 4.7 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

