

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035006.D
 Acq On : 13 May 2020 3:23
 Operator : SY/AP
 Sample : L2566-03DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5DL

Quant Time: May 13 06:57:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	939484	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2159772	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2032481	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	1657613	10.08	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%	

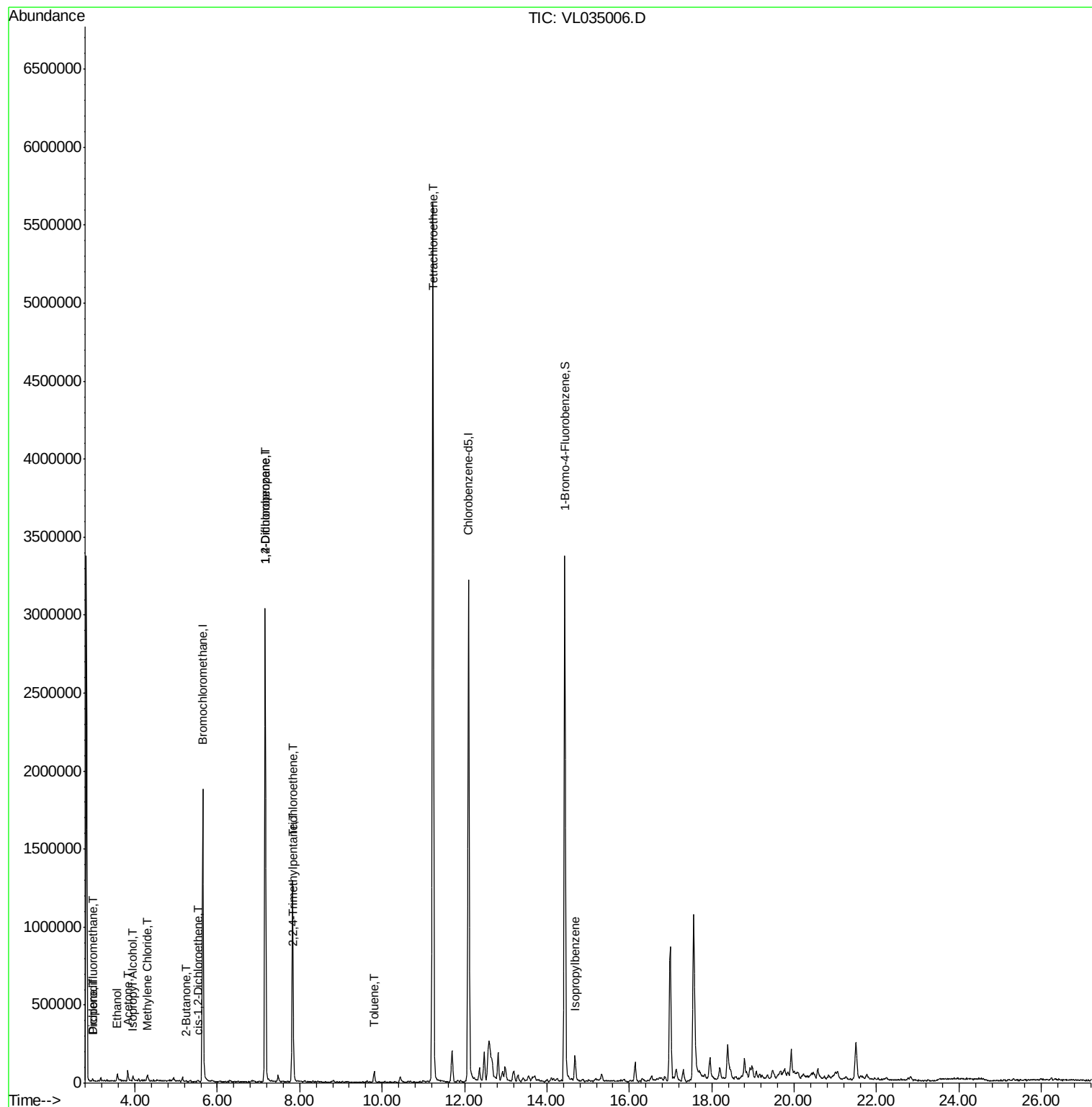
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	2753	0.021	ppbv #	48
9) Propene	2.96	41	1217	0.026	ppbv #	5
13) Ethanol	3.57	45	40593	2.643	ppbv	93
15) Acetone	3.83	43	57546	0.463	ppbv #	86
19) Isopropyl Alcohol	3.95	45	23581	0.285	ppbv #	92
20) Methylene Chloride	4.31	84	4817	0.117	ppbv #	84
31) cis-1,2-Dichloroethene	5.52	61	4215	0.048	ppbv #	38
34) 2-Butanone	5.24	43	6410	0.048	ppbv #	83
38) Trichloroethene	7.83	130	395428	5.732	ppbv	97
39) 1,2-Dichloropropane	7.16	63	584548	8.189	ppbv #	25
44) 2,2,4-Trimethylpentane	7.85	57	10699	0.034	ppbv #	30
52) Tetrachloroethene	11.24	164	1494318	23.601	ppbv	97
53) Toluene	9.81	91	42969	0.228	ppbv	92
62) Isopropylbenzene	14.68	105	59243	0.182	ppbv #	49

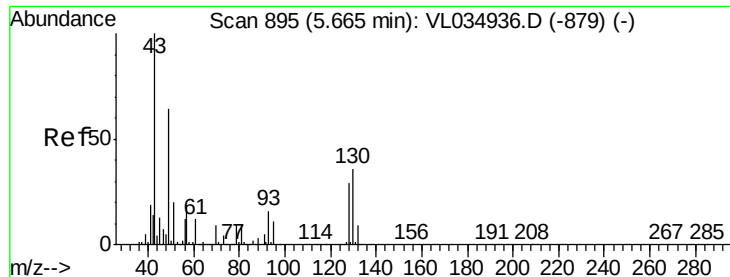
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SG-5DL

Quant Time: May 13 06:57:19 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May 06 14:49:39 2020
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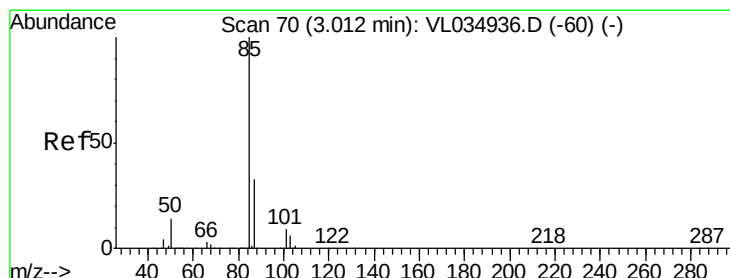
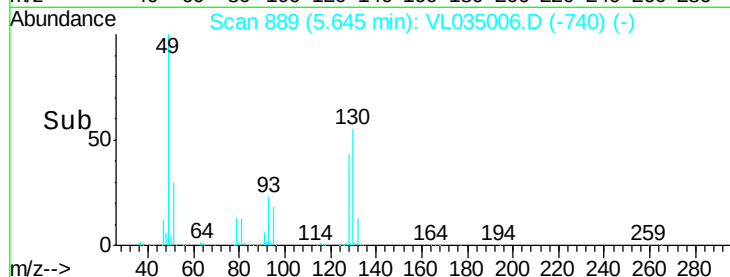
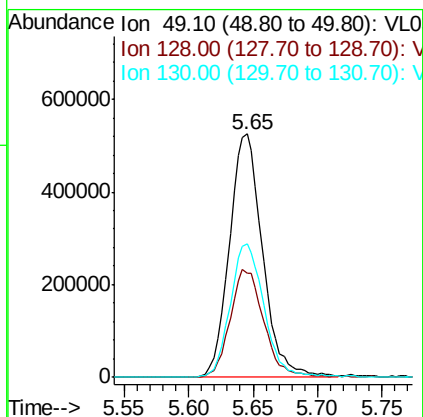
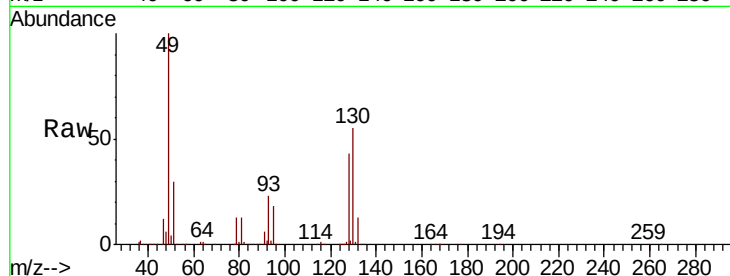




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 889
 Delta R.T. -0.02 min
 Lab File: VL035006.D
 Acq: 13 May 2020 3:23

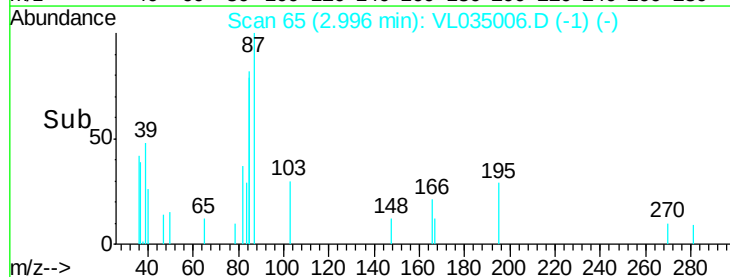
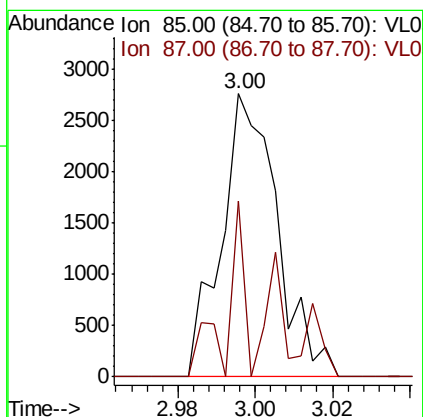
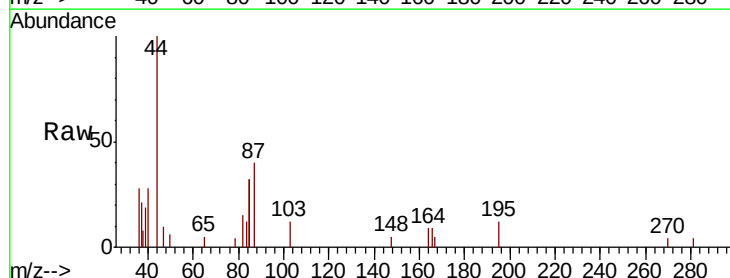
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5DL

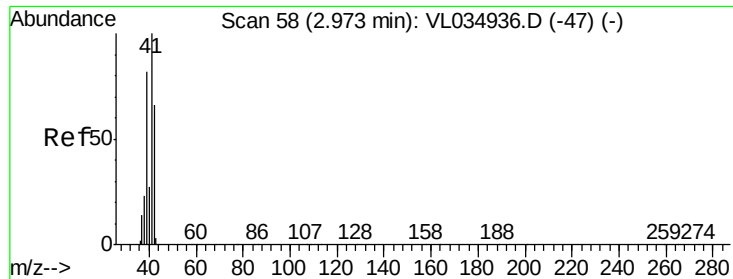
Tot Ion: 49 Resp: 939484
 Ion Ratio Lower Upper
 49 100
 128 45.1 22.1 66.5
 130 56.6 29.1 87.3



#2
 Dichlorodifluoromethane
 Concen: 0.021 ppbv
 RT: 3.00 min Scan# 65
 Delta R.T. -0.02 min
 Lab File: VL035006.D
 Acq: 13 May 2020 3:23

Tgt Ion: 85 Resp: 2753
 Ion Ratio Lower Upper
 85 100
 87 62.1 26.2 39.2#





#9

Propene

Concen: 0.026 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.01 min

Lab File: VL035006.D

Acq: 13 May 2020 3:23

Instrument :

MSVOA_L

ClientSampleId :

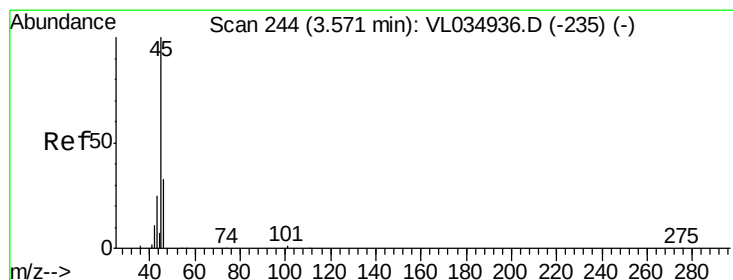
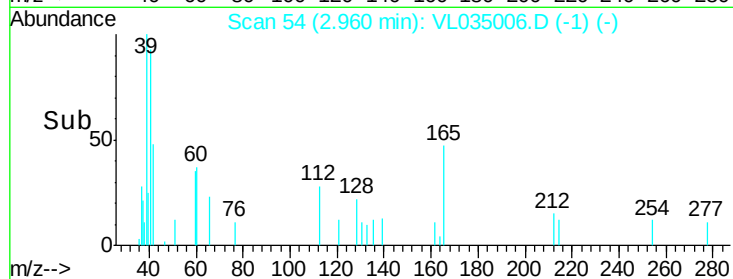
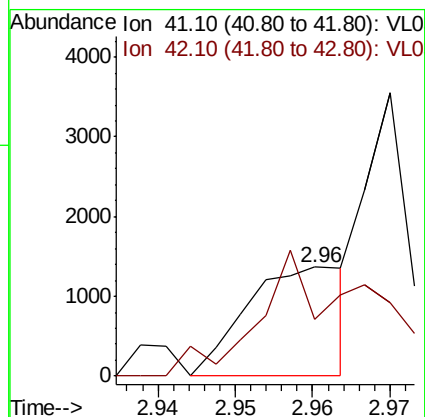
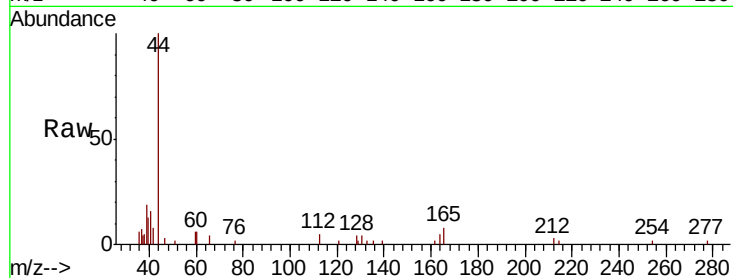
SG-5DL

Tot Ion: 41 Resp: 1217

Ion Ratio Lower Upper

41 100

42 144.7 54.5 81.7#



#13

Ethanol

Concen: 2.643 ppbv

RT: 3.57 min Scan# 244

Delta R.T. -0.00 min

Lab File: VL035006.D

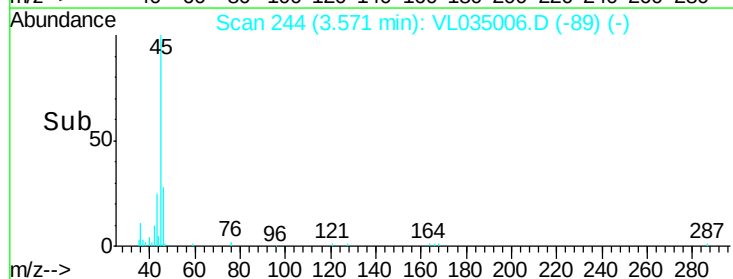
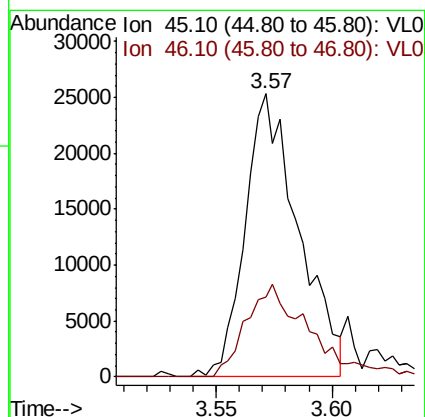
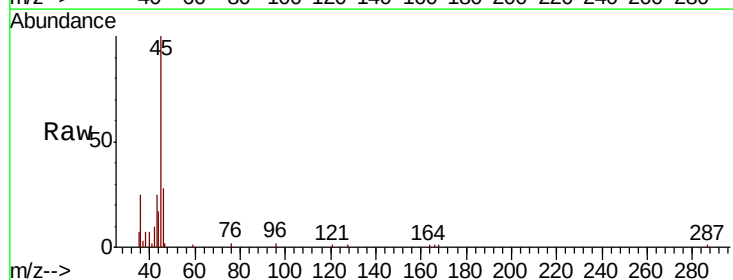
Acq: 13 May 2020 3:23

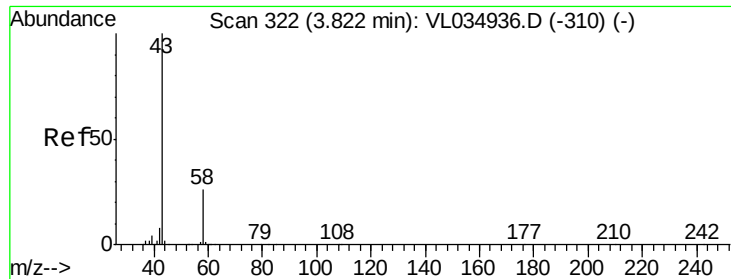
Tgt Ion: 45 Resp: 40593

Ion Ratio Lower Upper

45 100

46 39.9 14.3 57.3





#15

Acetone

Concen: 0.463 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL035006.D

Acq: 13 May 2020 3:23

Instrument :

MSVOA_L

ClientSampleId :

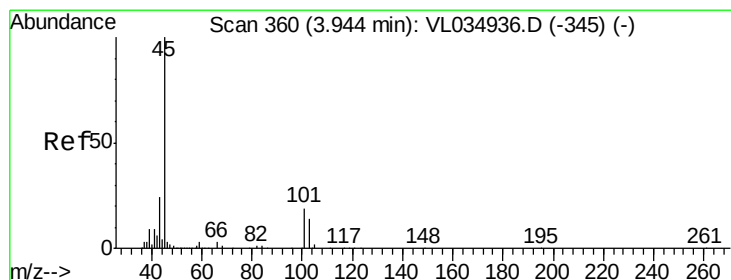
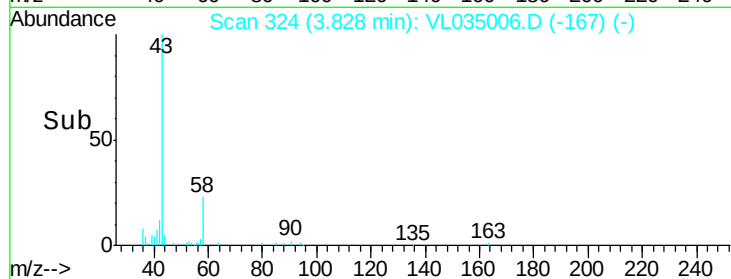
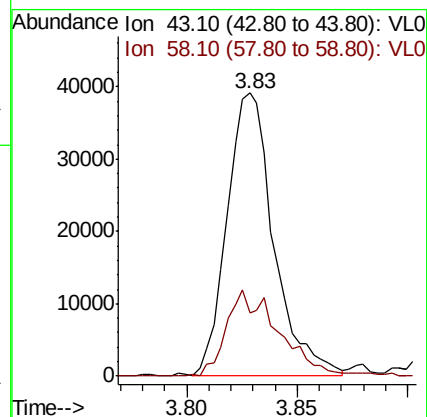
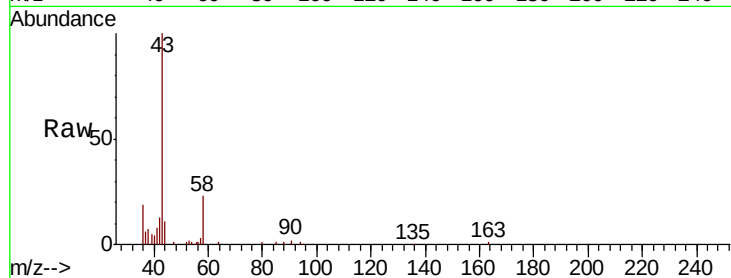
SG-5DL

Tot Ion: 43 Resp: 57546

Ion Ratio Lower Upper

43 100

58 34.5 21.7 32.5#



#19

Isopropyl Alcohol

Concen: 0.285 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL035006.D

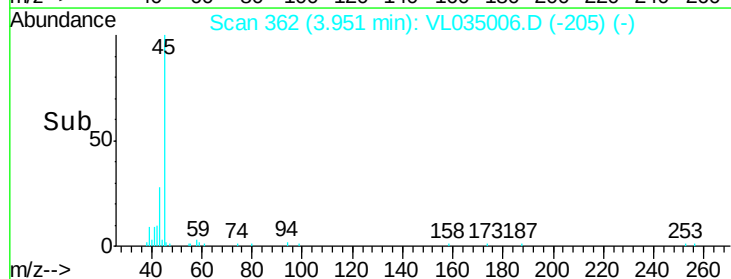
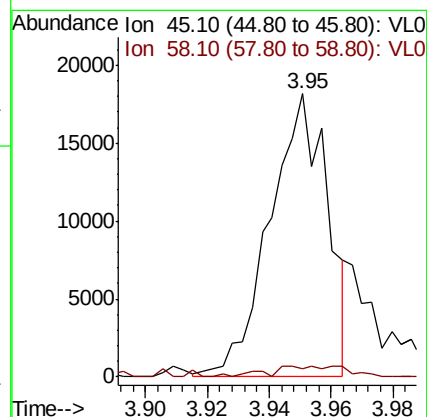
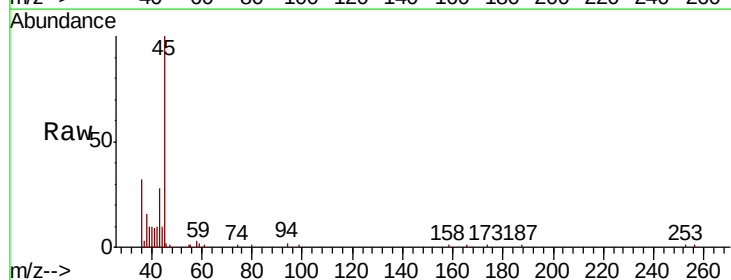
Acq: 13 May 2020 3:23

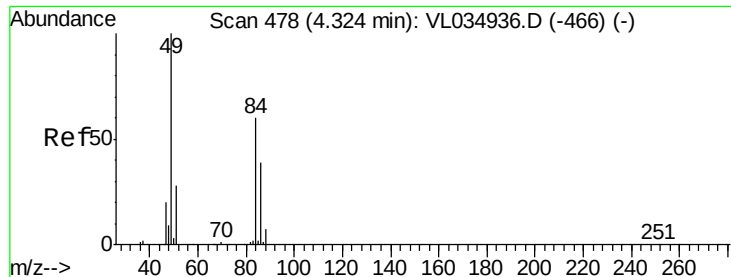
Tgt Ion: 45 Resp: 23581

Ion Ratio Lower Upper

45 100

58 4.9 1.7 2.5#

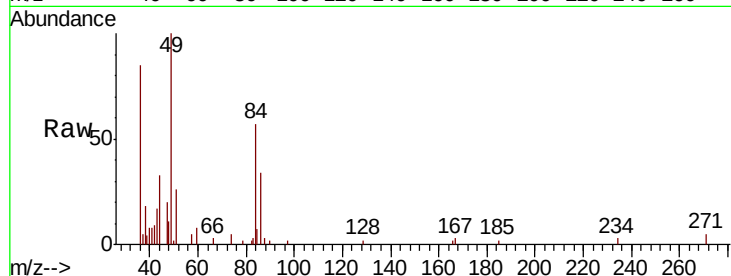




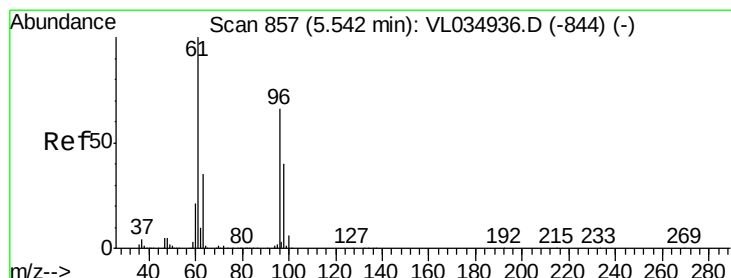
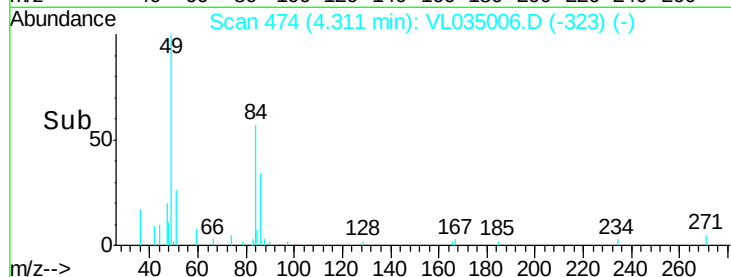
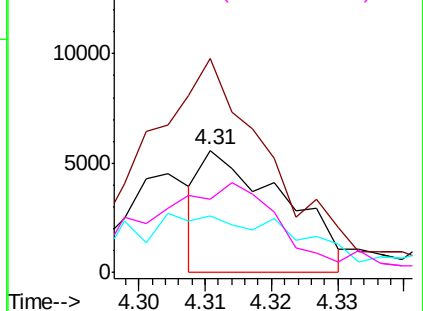
#20
Methylene Chloride
Concen: 0.117 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.01 min
Lab File: VL035006.D
Acq: 13 May 2020 3:23

Instrument :
MSVOA_L
ClientSampled :
SG-5DL

Tot Ion: 84 Resp: 4817
Ion Ratio Lower Upper
84 100
49 148.5 132.5 198.7
51 24.8 38.4 57.6#
86 55.3 51.2 76.8

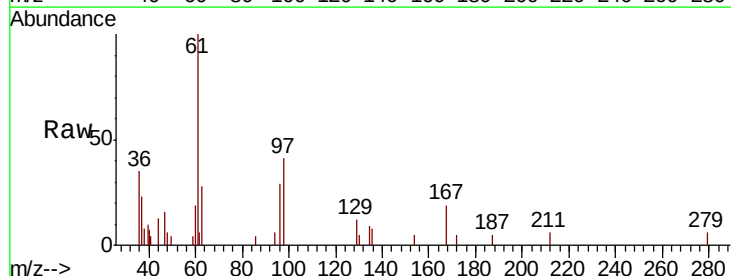


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

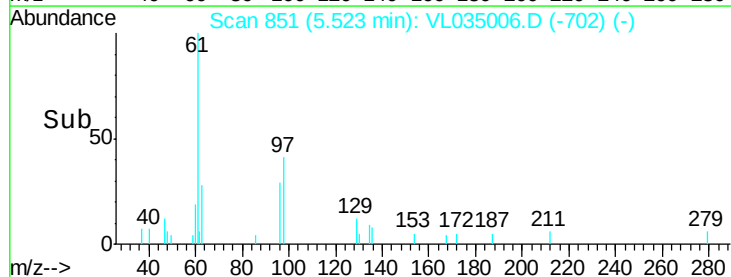
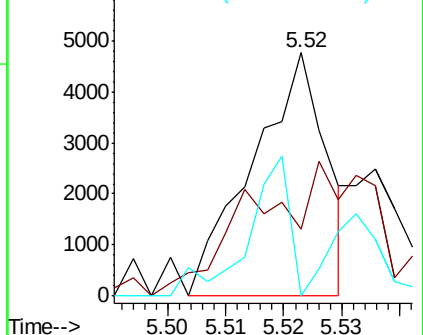


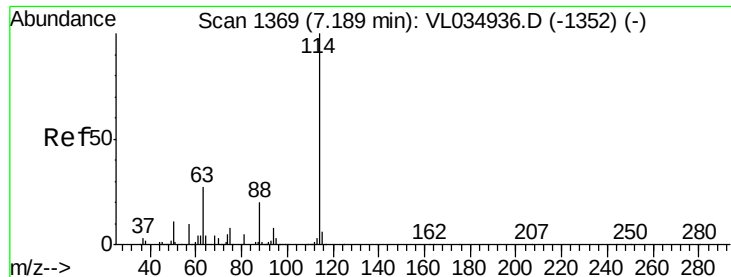
#31
cis-1,2-Dichloroethene
Concen: 0.048 ppbv
RT: 5.52 min Scan# 851
Delta R.T. -0.02 min
Lab File: VL035006.D
Acq: 13 May 2020 3:23

Tgt Ion: 61 Resp: 4215
Ion Ratio Lower Upper
61 100
96 17.7 53.0 79.6#
98 0.0 32.2 48.2#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

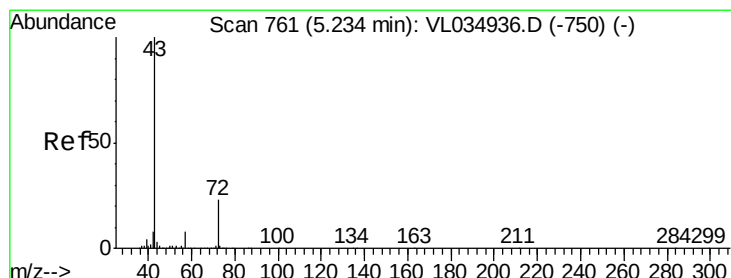
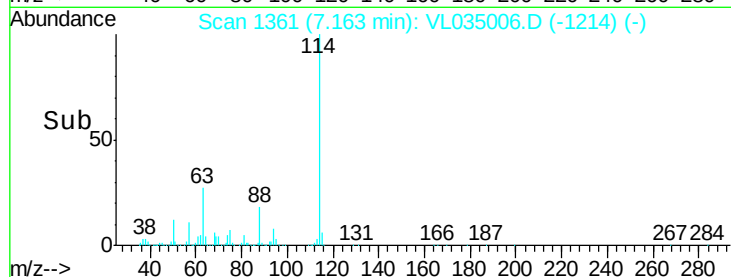
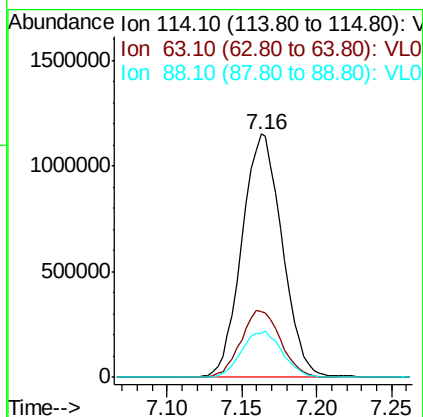
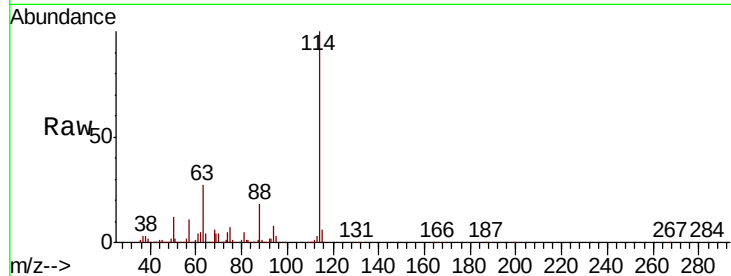




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL035006.D
 Acq: 13 May 2020 3:23

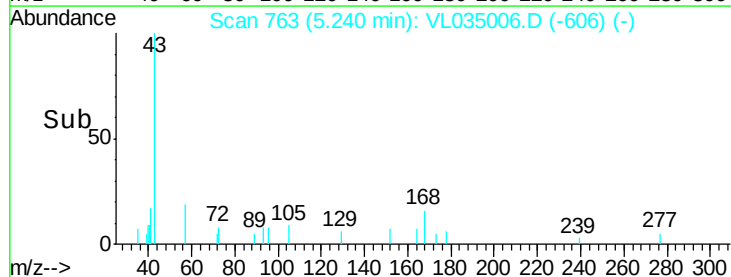
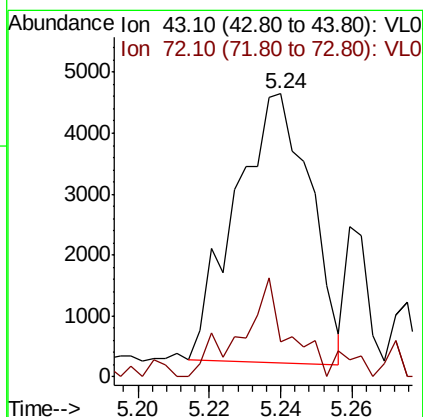
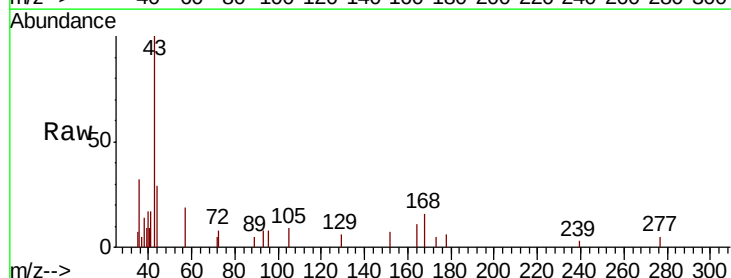
Instrument :
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 ClientSampleId :
 SG-5DL

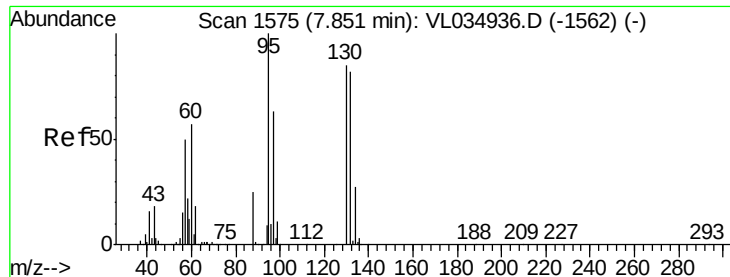
Tot Ion:114 Resp: 2159772
 Ion Ratio Lower Upper
 114 100
 63 27.3 22.2 33.4
 88 19.2 15.5 23.3



#34
 2-Butanone
 Concen: 0.048 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL035006.D
 Acq: 13 May 2020 3:23

Tgt Ion: 43 Resp: 6410
 Ion Ratio Lower Upper
 43 100
 72 30.8 18.0 27.0#





#38

Trichloroethene

Concen: 5.732 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.02 min

Lab File: VL035006.D

Acq: 13 May 2020 3:23

Instrument :

MSVOA_L

ClientSampleId :

SG-5DL

Tot Ion:130 Resp: 395428

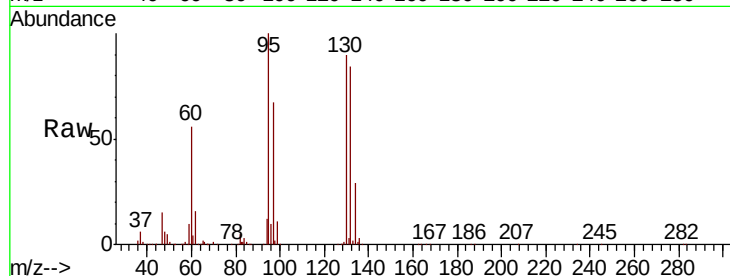
Ion Ratio Lower Upper

130 100

95 111.2 93.4 140.0

132 92.9 76.4 114.6

97 74.4 58.5 87.7

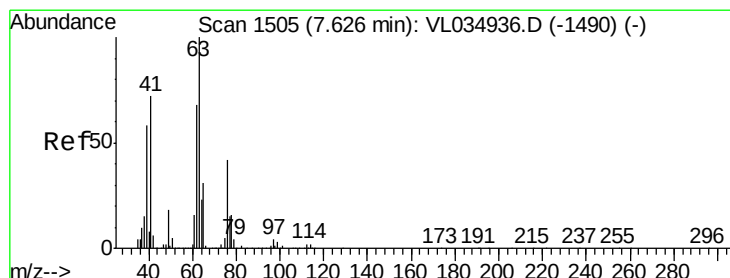
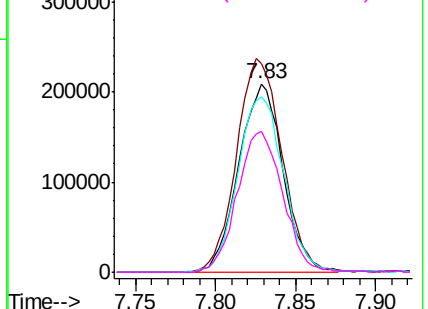
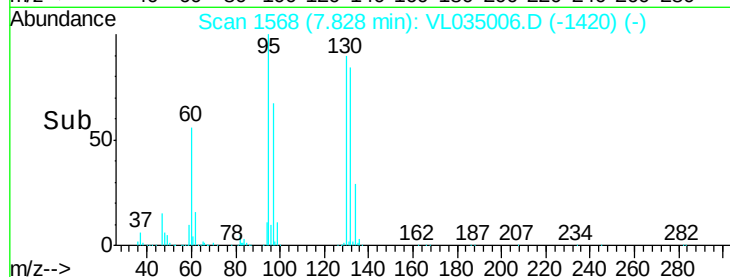


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.189 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.47 min

Lab File: VL035006.D

Acq: 13 May 2020 3:23

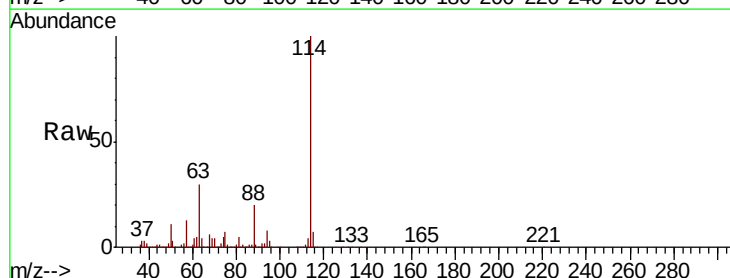
Tgt Ion: 63 Resp: 584548

Ion Ratio Lower Upper

63 100

41 0.1 57.8 86.8#

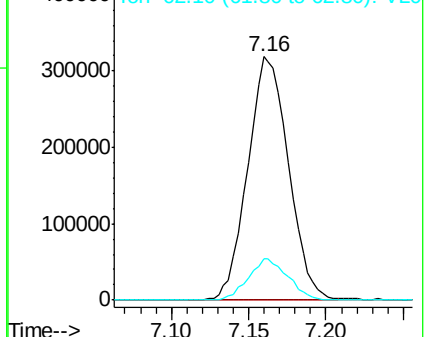
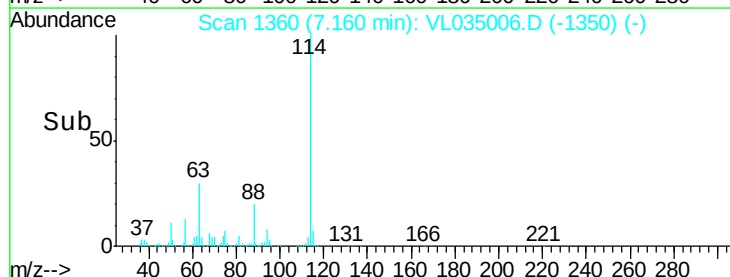
62 17.2 54.2 81.2#

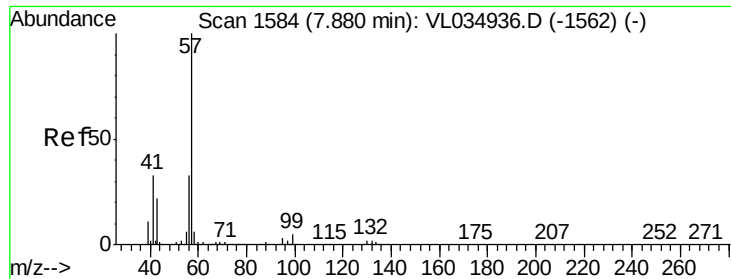


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

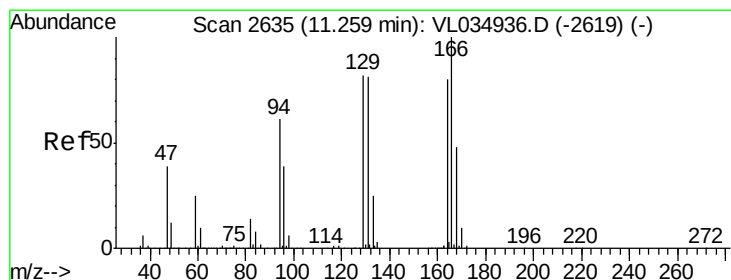
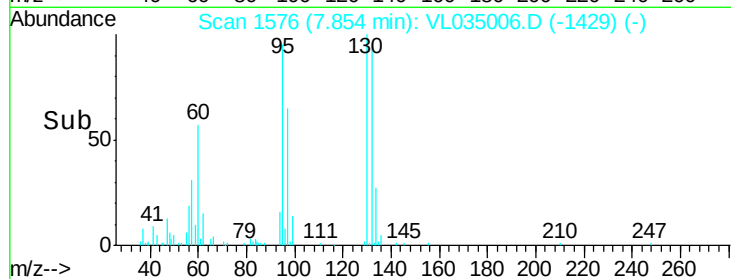
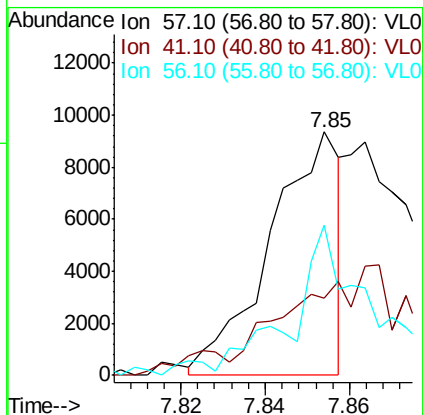
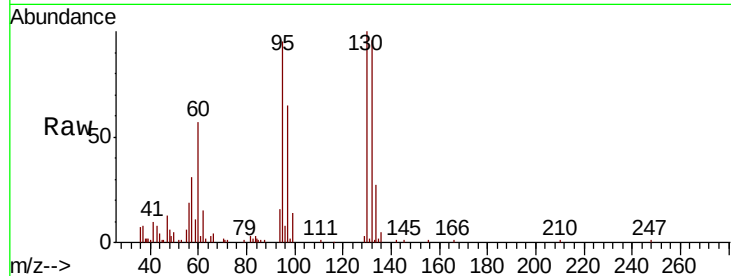




#44
 2,2,4-Trimethylpentane
 Concen: 0.034 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. -0.03 min
 Lab File: VL035006.D
 Acq: 13 May 2020 3:23

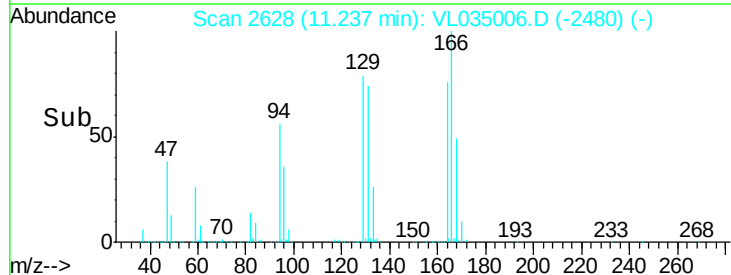
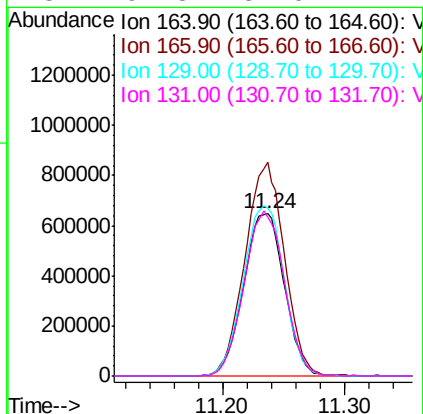
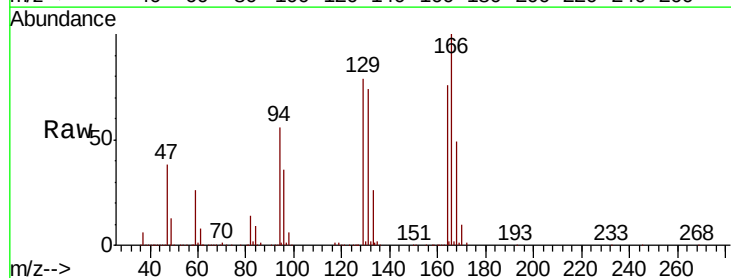
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5DL

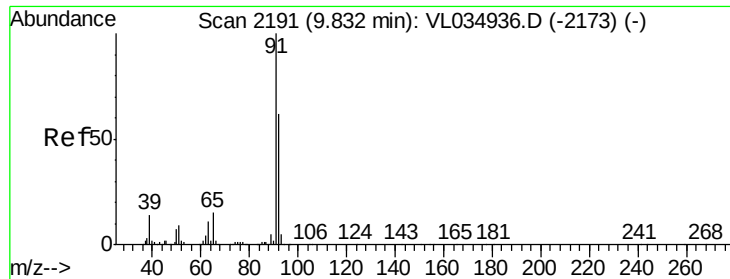
Tot Ion: 57 Resp: 10699
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.4 39.6#
 56 77.6 25.5 38.3#



#52
 Tetrachloroethene
 Concen: 23.601 ppbv
 RT: 11.24 min Scan# 2628
 Delta R.T. -0.02 min
 Lab File: VL035006.D
 Acq: 13 May 2020 3:23

Tgt Ion: 164 Resp: 1494318
 Ion Ratio Lower Upper
 164 100
 166 131.6 100.7 151.1
 129 103.5 83.0 124.4
 131 97.8 81.0 121.4





#53

Toluene

Concen: 0.228 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035006.D

Acq: 13 May 2020 3:23

Instrument :

MSVOA_L

ClientSampleId :

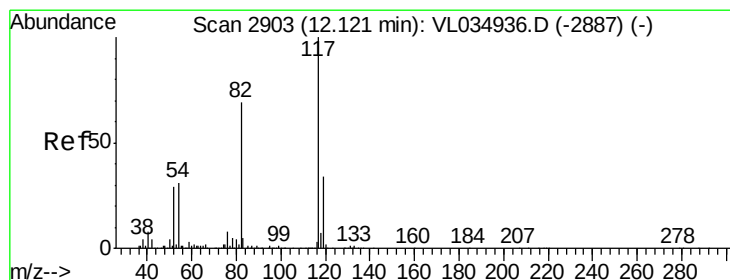
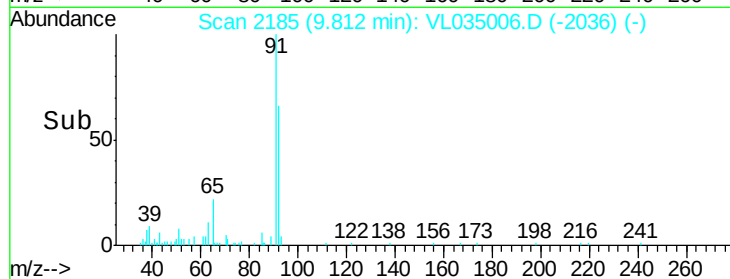
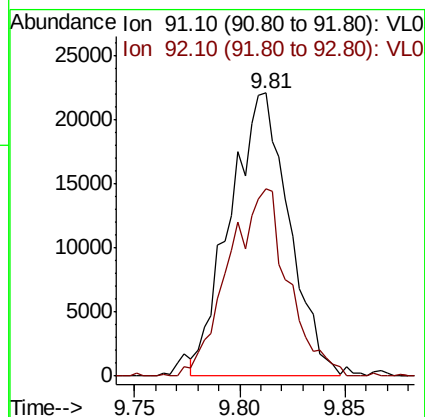
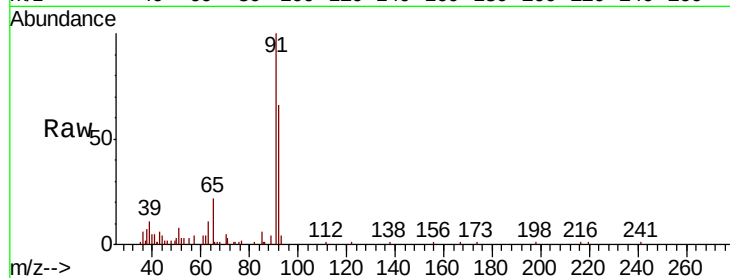
SG-5DL

Tot Ion: 91 Resp: 42969

Ion Ratio Lower Upper

91 100

92 67.0 48.6 73.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. -0.02 min

Lab File: VL035006.D

Acq: 13 May 2020 3:23

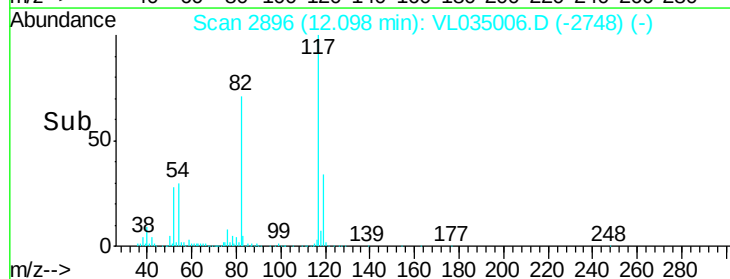
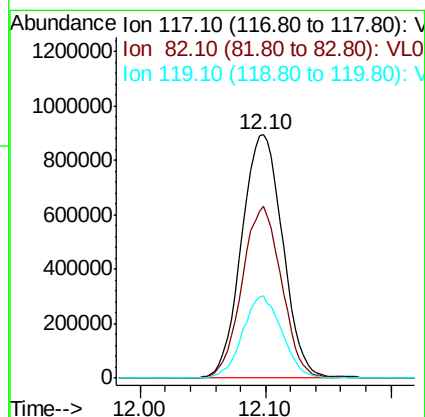
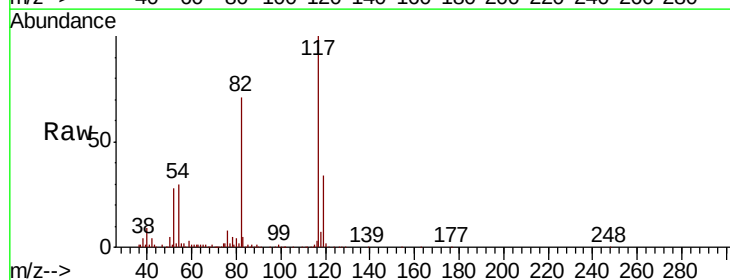
Tgt Ion: 117 Resp: 2032481

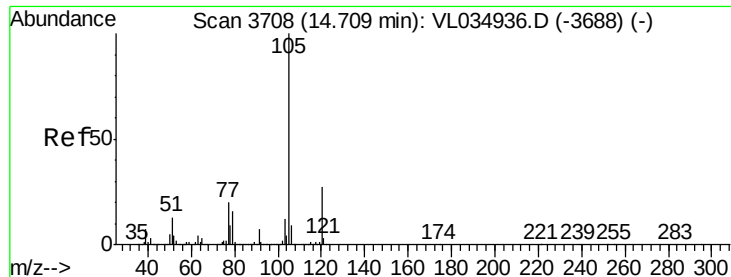
Ion Ratio Lower Upper

117 100

82 68.5 53.1 79.7

119 32.6 26.7 40.1





#62

Isopropylbenzene

Concen: 0.182 ppbv

RT: 14.68 min Scan# 3698

Delta R.T. -0.03 min

Lab File: VL035006.D

Acq: 13 May 2020 3:23

Instrument :

MSVOA_L

ClientSampleId :

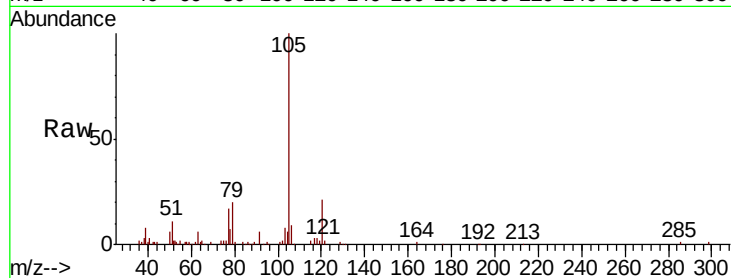
SG-5DL

Tot Ion:105 Resp: 59243

Ion Ratio Lower Upper

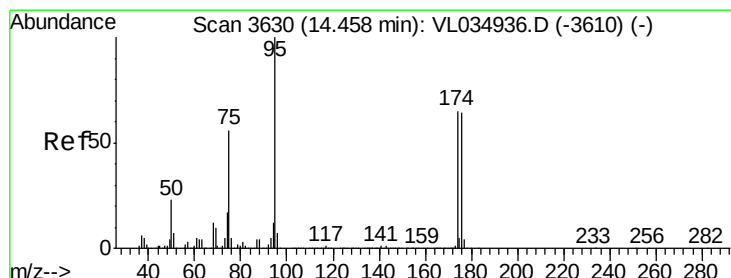
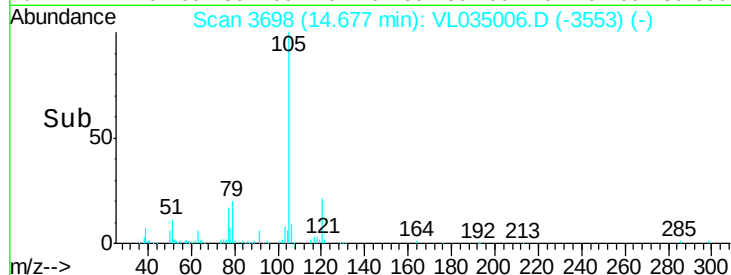
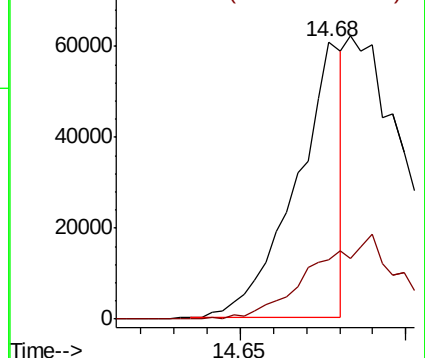
105 100

120 0.0 20.6 31.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.076 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.02 min

Lab File: VL035006.D

Acq: 13 May 2020 3:23

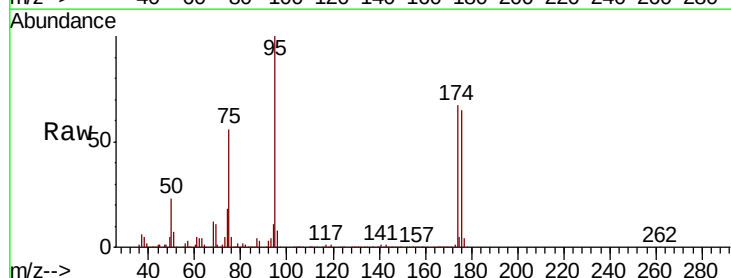
Tgt Ion: 95 Resp: 1657613

Ion Ratio Lower Upper

95 100

174 66.0 51.5 77.3

175 5.1 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

