

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035065.D
 Acq On : 20 May 2020 4:46
 Operator : SY/AP
 Sample : L2683-09
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-SS

Manual Integrations
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Quant Time: May 20 08:11:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 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	5.64	49	1152042	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2581959	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2485404	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	2117263	10.52	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	45197m	0.276	ppbv	
3) Chlorodifluoromethane	2.94	51	91945m	0.699	ppbv	
4) Chloromethane	3.09	50	37636	0.499	ppbv	91
9) Propene	2.97	41	289335	5.069	ppbv #	67
11) Trichlorofluoromethane	3.91	101	48017	0.285	ppbv	96
13) Ethanol	3.56	45	4190047	222.475	ppbv	98
15) Acetone	3.80	43	1846895	12.126	ppbv	100
17) tert-Butyl alcohol	4.27	59	18684m	0.138	ppbv	
19) Isopropyl Alcohol	3.94	45	165781	1.632	ppbv #	1
20) Methylene Chloride	4.31	84	34337	0.681	ppbv	96
26) Hexane	5.66	57	35309	0.318	ppbv #	59
29) Chloroform	5.73	83	64119	0.353	ppbv	86
31) cis-1,2-Dichloroethene	5.52	61	49720m	0.459	ppbv	
34) 2-Butanone	5.22	43	309210	1.927	ppbv	99
35) Carbon Tetrachloride	7.01	117	11687m	0.072	ppbv	
36) Benzene	6.87	78	35040	0.165	ppbv	93
38) Trichloroethene	7.83	130	78067m	0.947	ppbv	
41) Tetrahydrofuran	6.04	42	23402m	0.277	ppbv	
52) Tetrachloroethene	11.23	164	1659070	21.918	ppbv	96
53) Toluene	9.81	91	269140	1.193	ppbv	94
59) m/p-Xylene	12.99	91	46055m	0.170	ppbv	

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

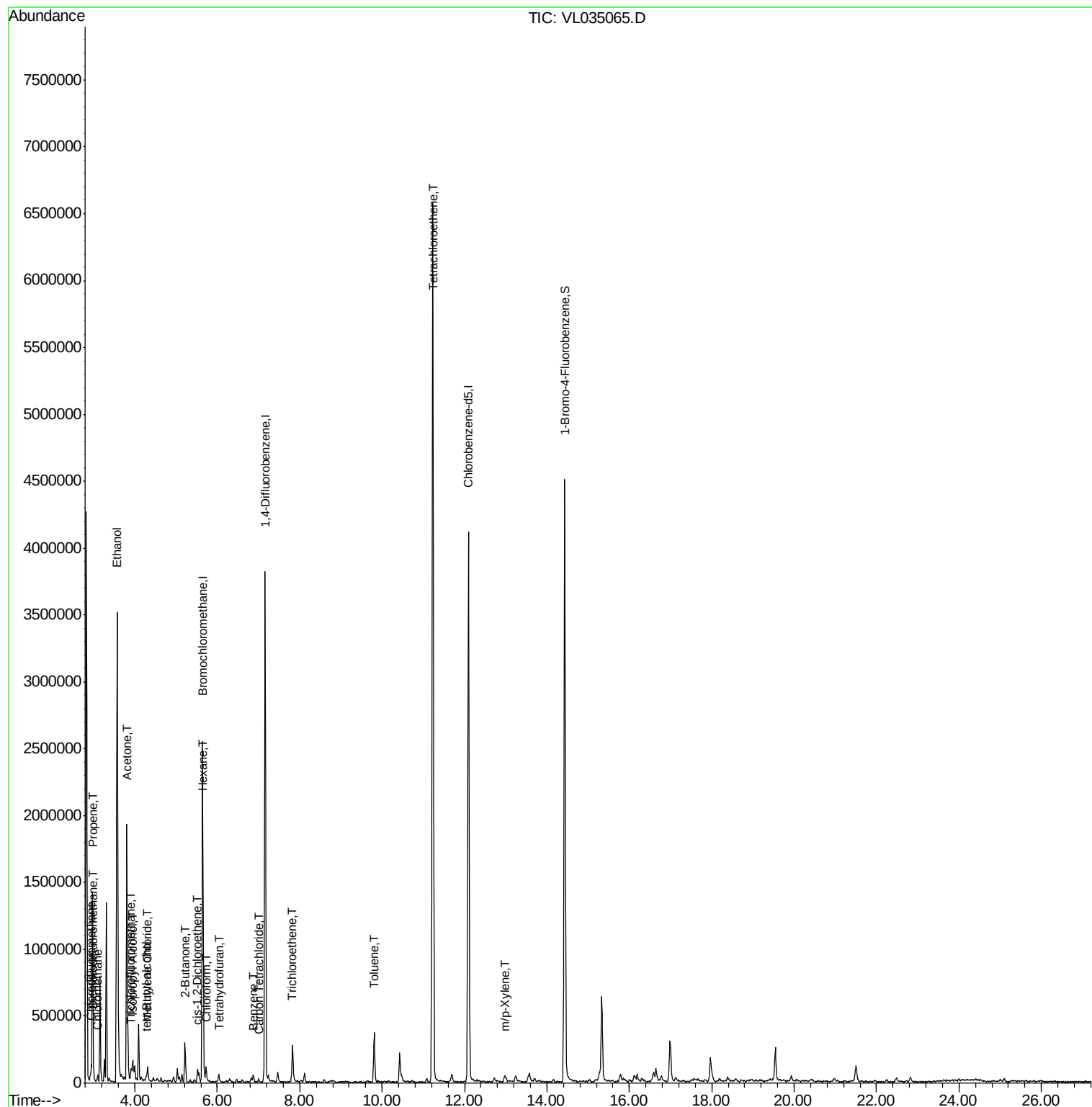
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035065.D
Acq On : 20 May 2020 4:46
Operator : SY/AP
Sample : L2683-09
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

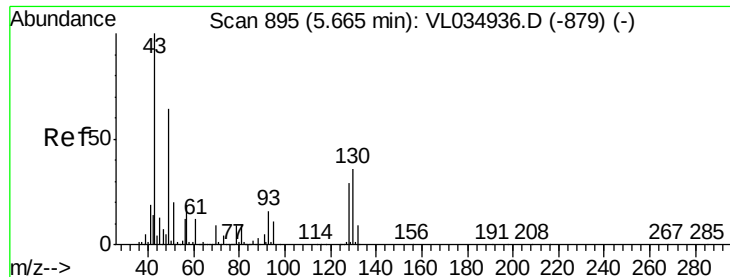
Instrument :
MSVOA_L
ClientSampleId :
IR-BR-SS

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Quant Time: May 20 08:11:26 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035065.D

Acq: 20 May 2020 4:46

Instrument :

MSVOA_L

ClientSampled :

IR-BR-SS

Tot Ion: 49 Resp: 1152042

Ion Ratio Lower Upper

49 100

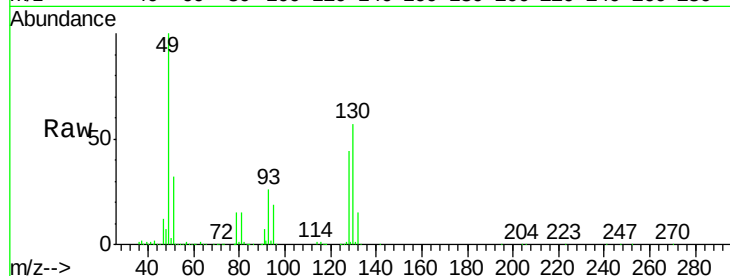
128 45.2 22.1 66.5

130 58.7 29.1 87.3

Manual Integrations
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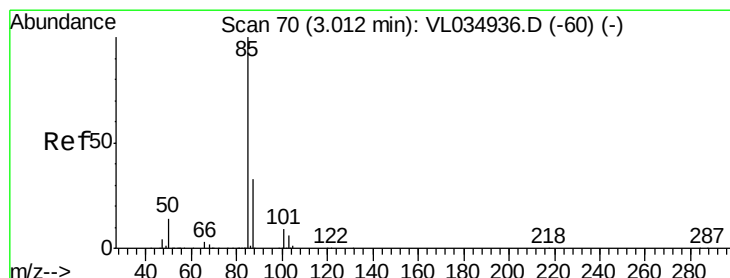
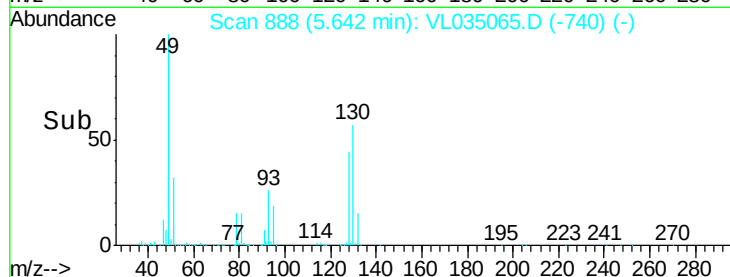
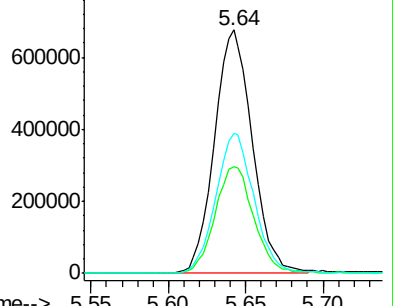
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.276 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035065.D

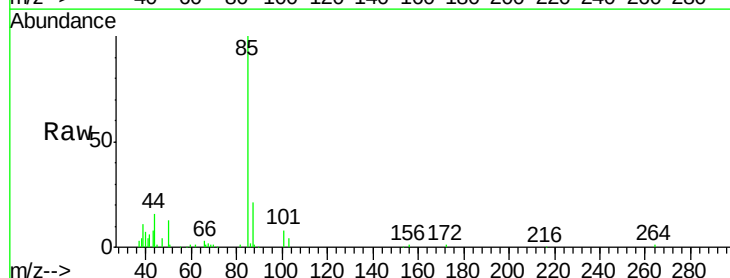
Acq: 20 May 2020 4:46

Tgt Ion: 85 Resp: 45197

Ion Ratio Lower Upper

85 100

87 21.2 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Ion 89.00 (88.70 to 89.70): VL0

Ion 91.00 (90.70 to 91.70): VL0

Ion 93.00 (92.70 to 93.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 101.00 (100.70 to 101.70): VL0

Ion 103.00 (102.70 to 103.70): VL0

Ion 105.00 (104.70 to 105.70): VL0

Ion 107.00 (106.70 to 107.70): VL0

Ion 109.00 (108.70 to 109.70): VL0

Ion 111.00 (110.70 to 111.70): VL0

Ion 113.00 (112.70 to 113.70): VL0

Ion 115.00 (114.70 to 115.70): VL0

Ion 117.00 (116.70 to 117.70): VL0

Ion 119.00 (118.70 to 119.70): VL0

Ion 121.00 (120.70 to 121.70): VL0

Ion 123.00 (122.70 to 123.70): VL0

Ion 125.00 (124.70 to 125.70): VL0

Ion 127.00 (126.70 to 127.70): VL0

Ion 129.00 (128.70 to 129.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 133.00 (132.70 to 133.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

Ion 137.00 (136.70 to 137.70): VL0

Ion 139.00 (138.70 to 139.70): VL0

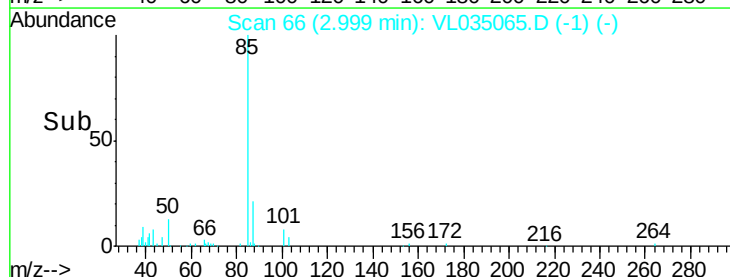
Ion 141.00 (140.70 to 141.70): VL0

Ion 143.00 (142.70 to 143.70): VL0

Ion 145.00 (144.70 to 145.70): VL0

Ion 147.00 (146.70 to 147.70): VL0

Ion 149.00 (148.70 to 149.70): VL0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Ion 89.00 (88.70 to 89.70): VL0

Ion 91.00 (90.70 to 91.70): VL0

Ion 93.00 (92.70 to 93.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 101.00 (100.70 to 101.70): VL0

Ion 103.00 (102.70 to 103.70): VL0

Ion 105.00 (104.70 to 105.70): VL0

Ion 107.00 (106.70 to 107.70): VL0

Ion 109.00 (108.70 to 109.70): VL0

Ion 111.00 (110.70 to 111.70): VL0

Ion 113.00 (112.70 to 113.70): VL0

Ion 115.00 (114.70 to 115.70): VL0

Ion 117.00 (116.70 to 117.70): VL0

Ion 119.00 (118.70 to 119.70): VL0

Ion 121.00 (120.70 to 121.70): VL0

Ion 123.00 (122.70 to 123.70): VL0

Ion 125.00 (124.70 to 125.70): VL0

Ion 127.00 (126.70 to 127.70): VL0

Ion 129.00 (128.70 to 129.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 133.00 (132.70 to 133.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

Ion 137.00 (136.70 to 137.70): VL0

Ion 139.00 (138.70 to 139.70): VL0

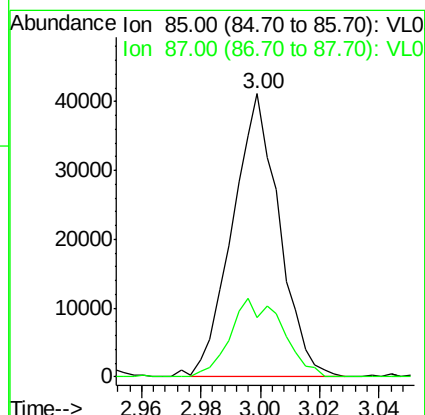
Ion 141.00 (140.70 to 141.70): VL0

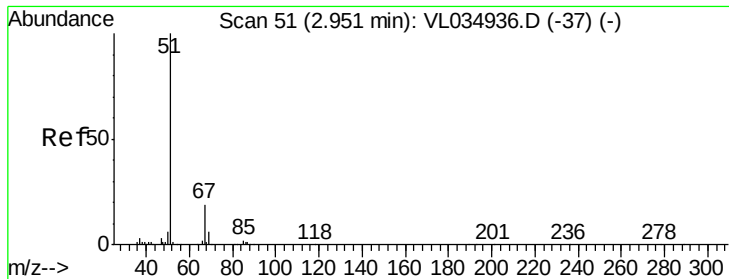
Ion 143.00 (142.70 to 143.70): VL0

Ion 145.00 (144.70 to 145.70): VL0

Ion 147.00 (146.70 to 147.70): VL0

Ion 149.00 (148.70 to 149.70): VL0





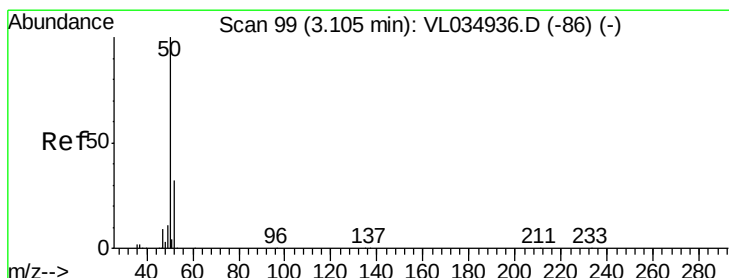
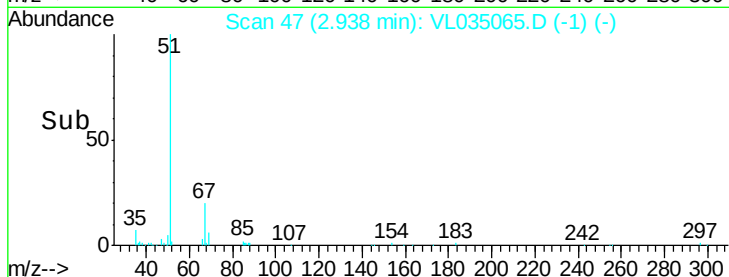
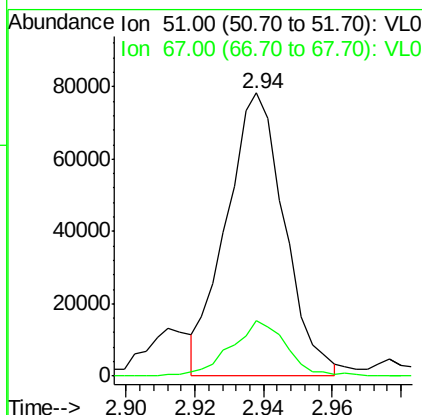
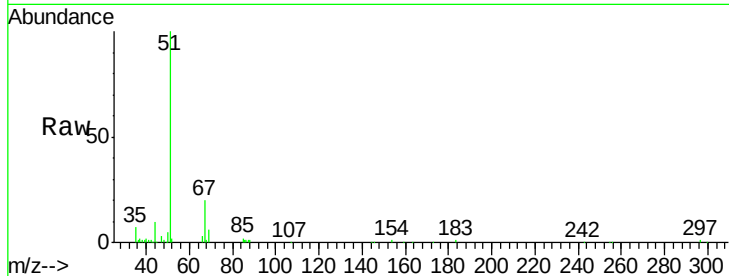
#3
Chlorodifluoromethane
Concen: 0.699 ppbv
RT: 2.94 min Scan# 47
Delta R.T. -0.01 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Instrument :
MSVOA_L
ClientSampleId :
IR-BR-SS

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.7	15.0	22.6

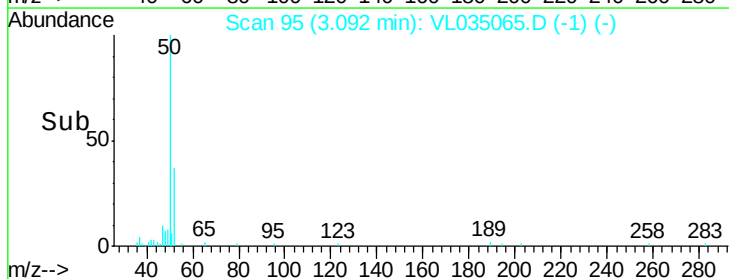
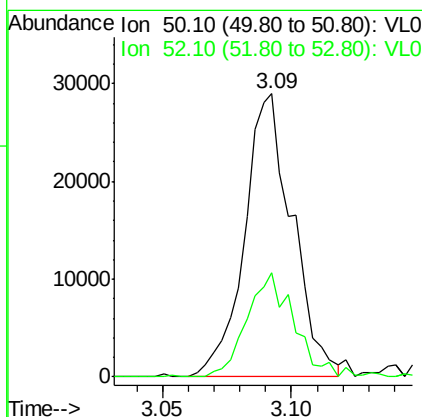
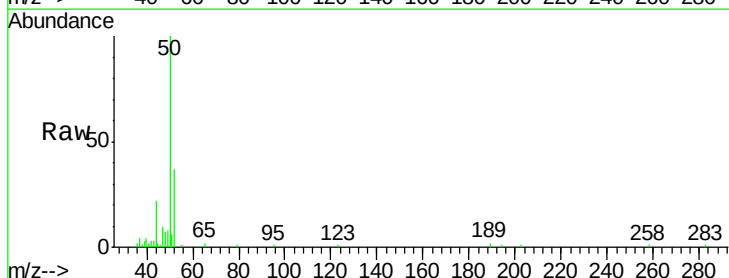
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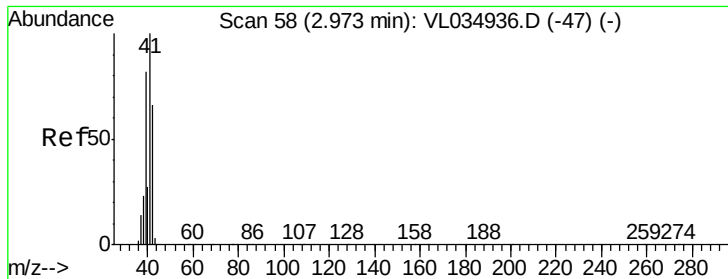
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#4
Chloromethane
Concen: 0.499 ppbv
RT: 3.09 min Scan# 95
Delta R.T. -0.01 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Tgt Ion	Ratio	Lower	Upper
50	100		
52	37.0	25.4	38.2





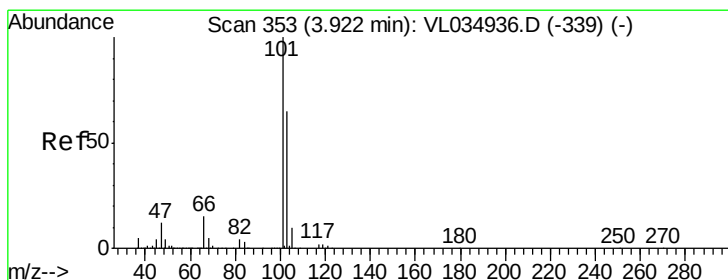
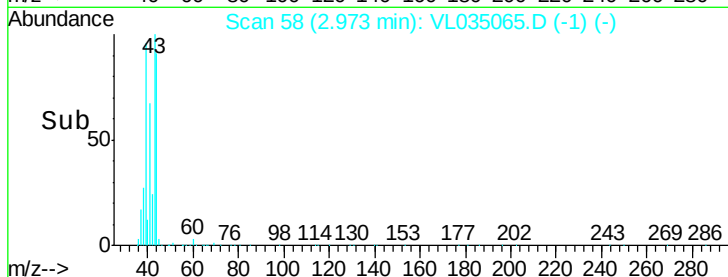
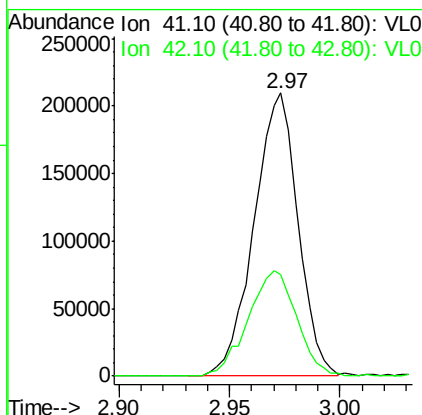
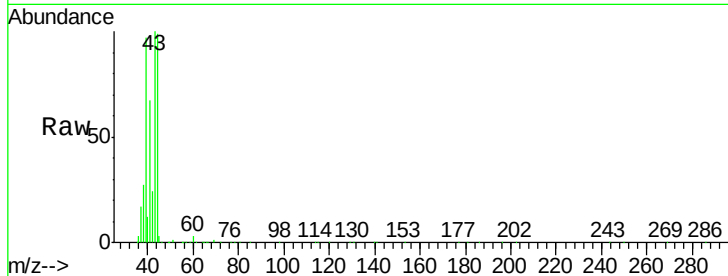
#9
 Propene
 Concen: 5.069 ppbv
 RT: 2.97 min Scan# 58
 Delta R.T. -0.00 min
 Lab File: VL035065.D
 Acq: 20 May 2020 4:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-SS

Tot Ion	Ratio	Lower	Upper
41	100		
42	41.5	54.5	81.7#

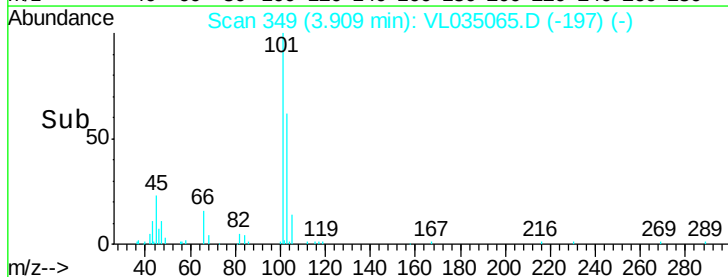
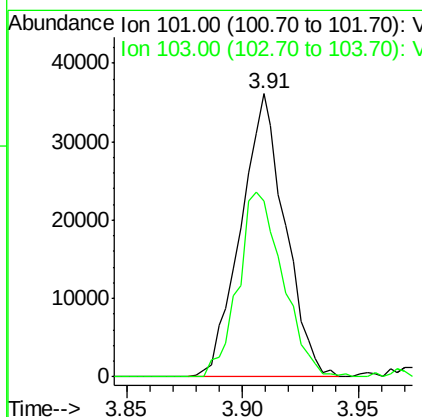
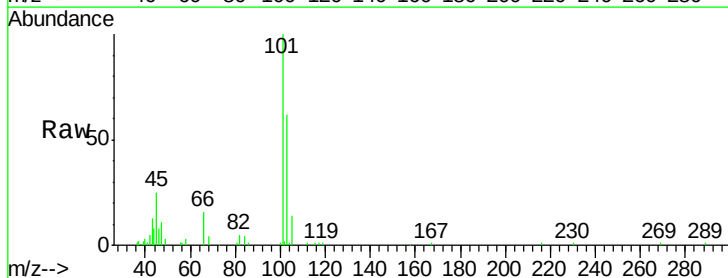
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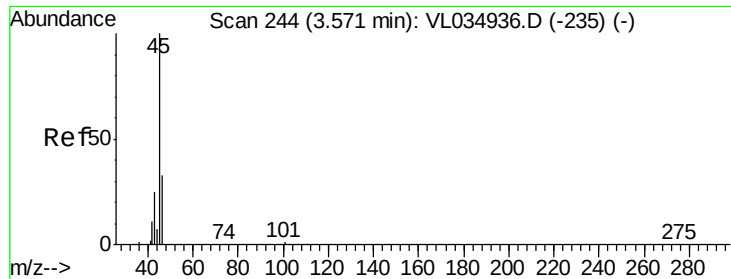
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#11
 Trichlorofluoromethane
 Concen: 0.285 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035065.D
 Acq: 20 May 2020 4:46

Tgt Ion	Ratio	Lower	Upper
101	100		
103	61.9	51.9	77.9





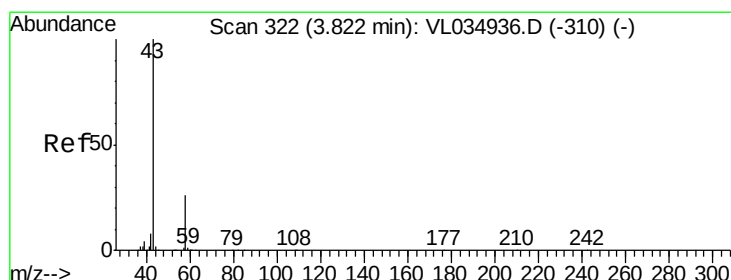
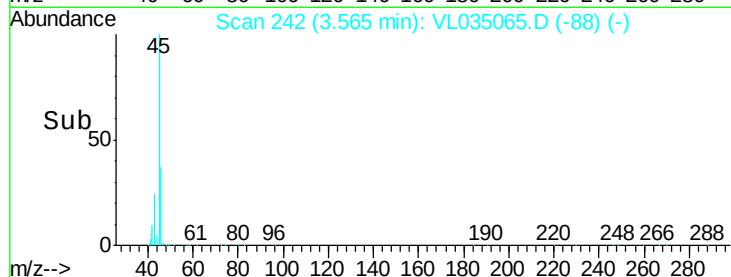
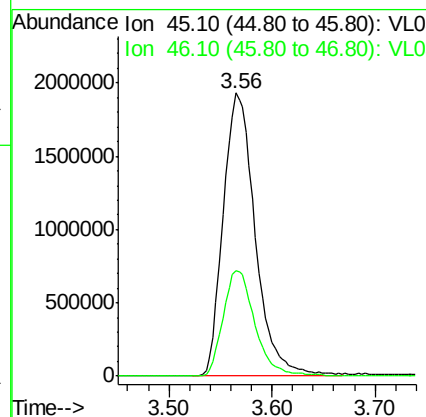
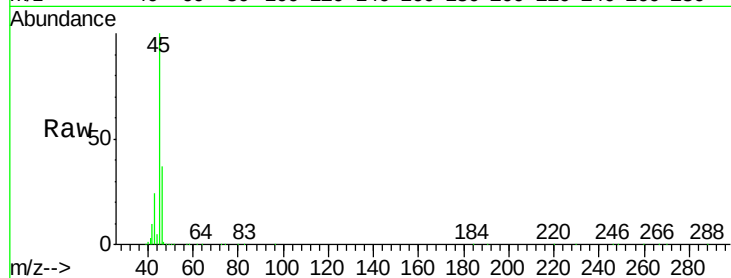
#13
Ethanol
Concen: 222.475 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.01 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Instrument :
MSVOA_L
ClientSampleId :
IR-BR-SS

Tot Ion: 45 Resp: 4190047
Ion Ratio Lower Upper
45 100
46 36.9 14.3 57.3

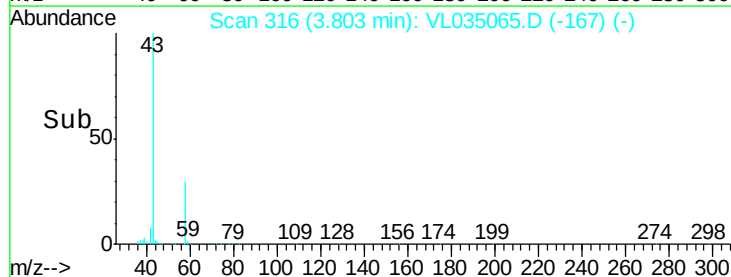
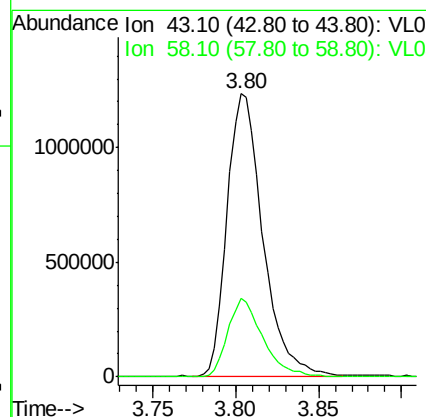
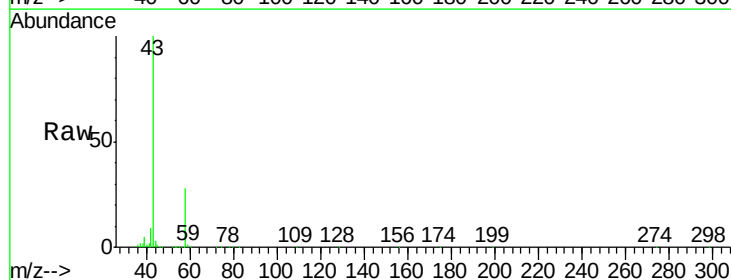
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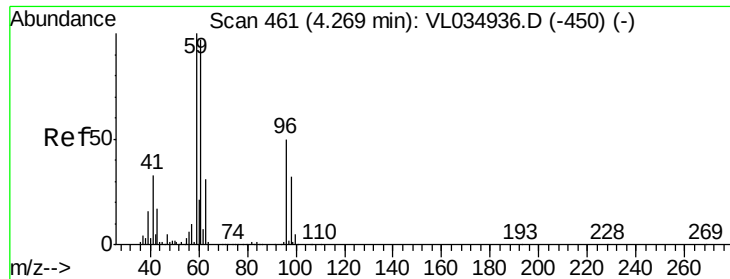
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#15
Acetone
Concen: 12.126 ppbv
RT: 3.80 min Scan# 316
Delta R.T. -0.02 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Tgt Ion: 43 Resp: 1846895
Ion Ratio Lower Upper
43 100
58 27.4 21.7 32.5





#17

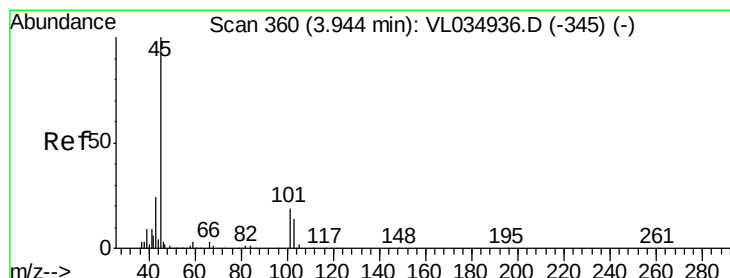
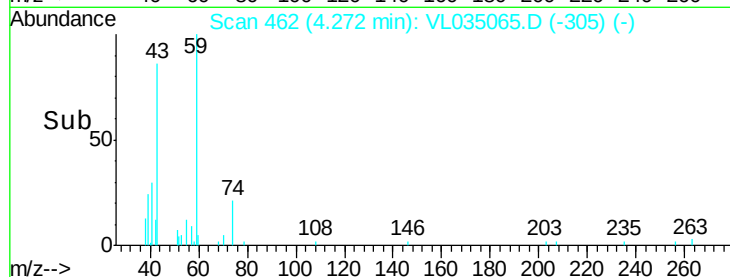
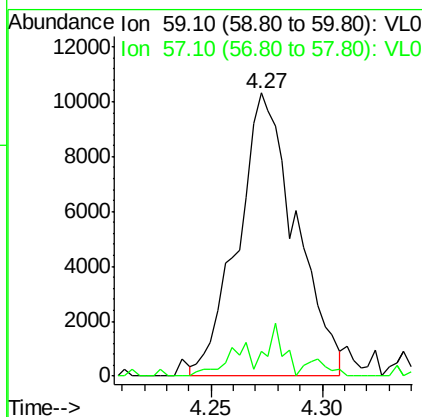
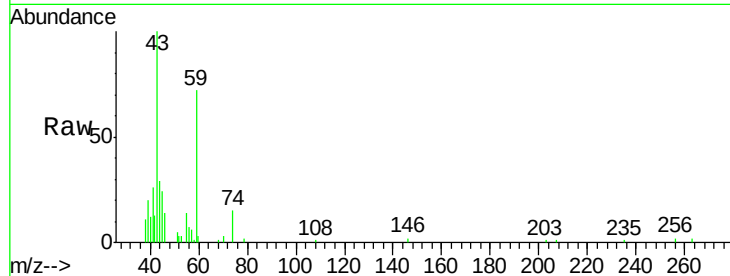
tert-Butyl alcohol
Concen: 0.138 ppbv
RT: 4.27 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Instrument :
MSVOA_L
ClientSampleId :
IR-BR-SS

Tot Ion: 59 Resp: 18684
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

Manual Integrations
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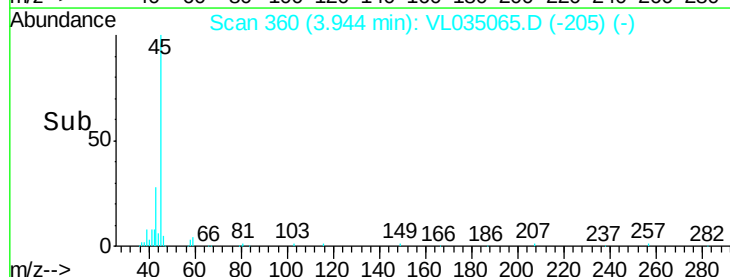
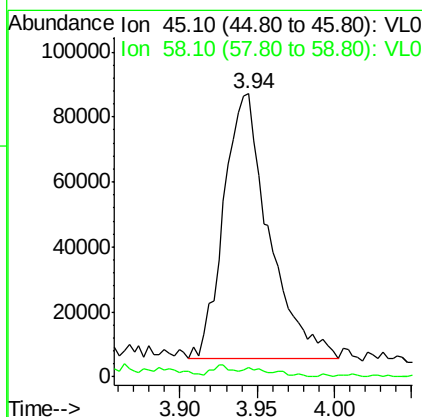
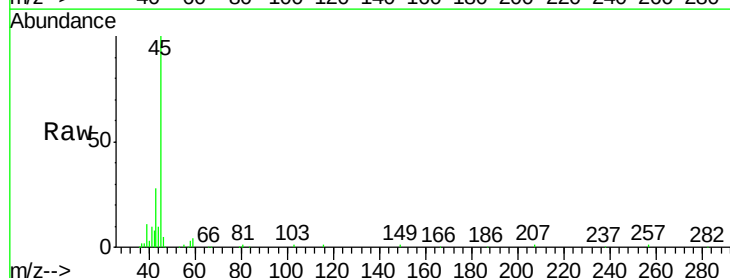
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5/20/2020 4:28:17 PM

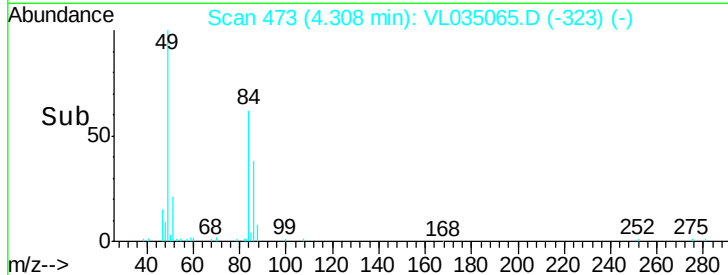
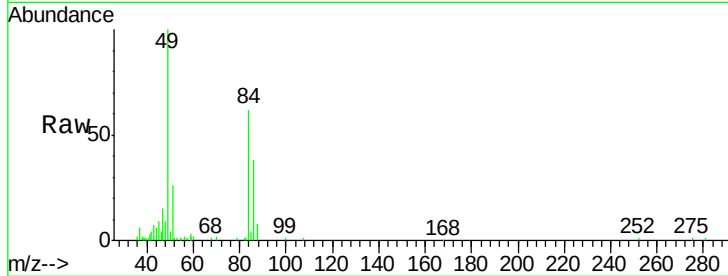
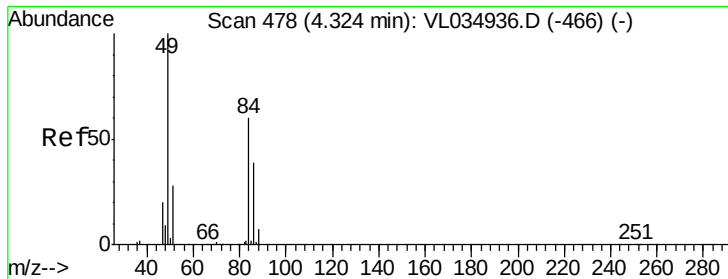


#19

Isopropyl Alcohol
Concen: 1.632 ppbv
RT: 3.94 min Scan# 360
Delta R.T. -0.00 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Tgt Ion: 45 Resp: 165781
Ion Ratio Lower Upper
45 100
58 305.9 1.7 2.5#





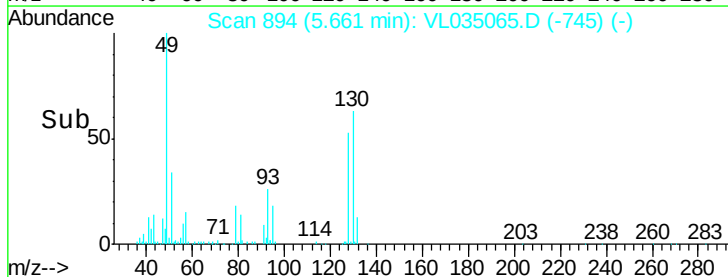
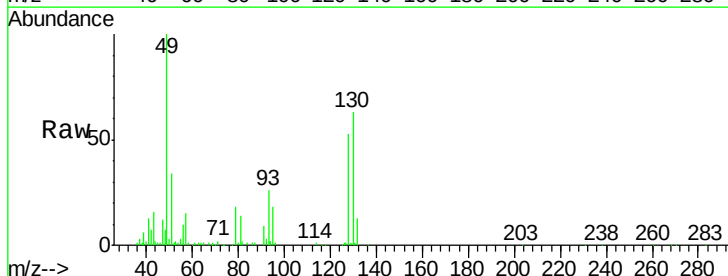
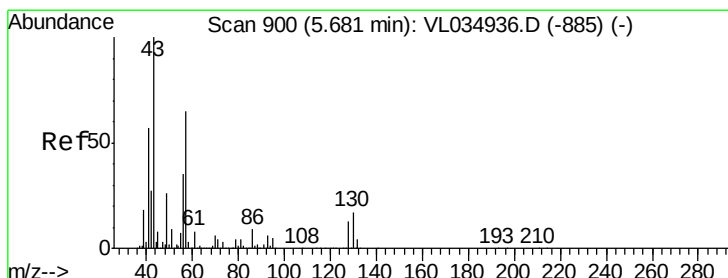
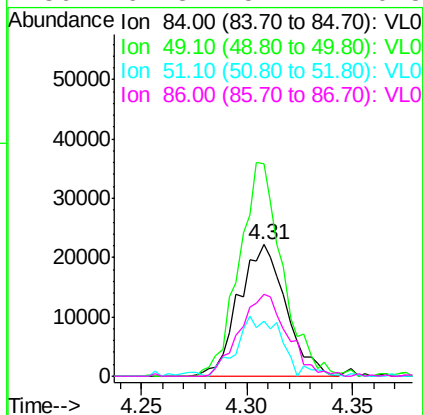
#20
Methvlene Chloride
Concen: 0.681 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Tot Ion:	84	Resp:	34337
Ion Ratio	Lower	Upper	
84	100		
49	161.9	132.5	198.7
51	41.1	38.4	57.6
86	62.3	51.2	76.8

Instrument :
MSVOA_L
ClientSampled :
IR-BR-SS

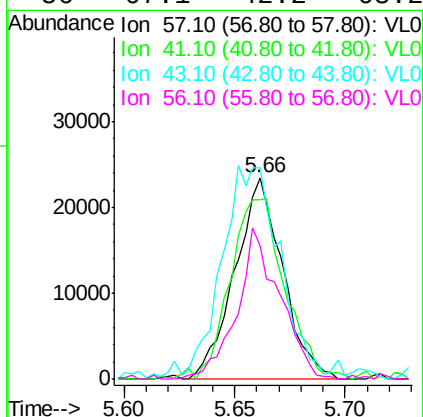
Manual Integrations
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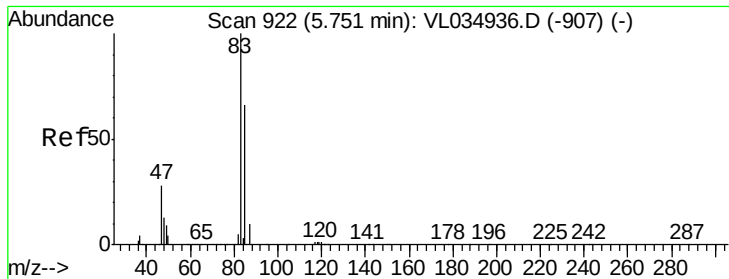
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#26
Hexane
Concen: 0.318 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Tgt Ion:	57	Resp:	35309
Ion Ratio	Lower	Upper	
57	100		
41	103.9	72.7	109.1
43	134.3	182.1	273.1#
56	67.1	42.2	63.2#





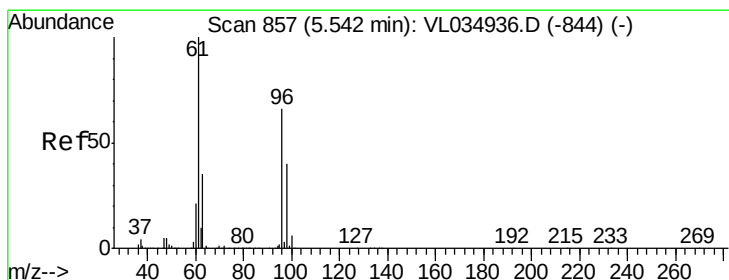
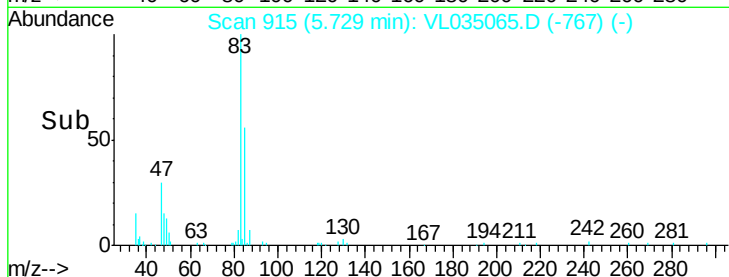
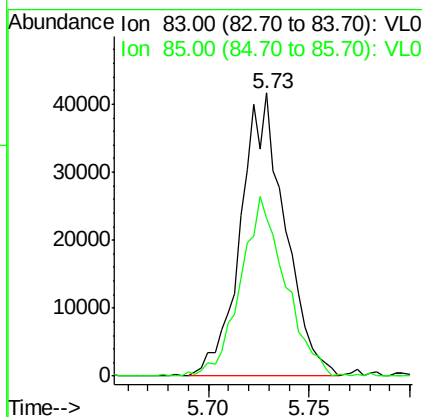
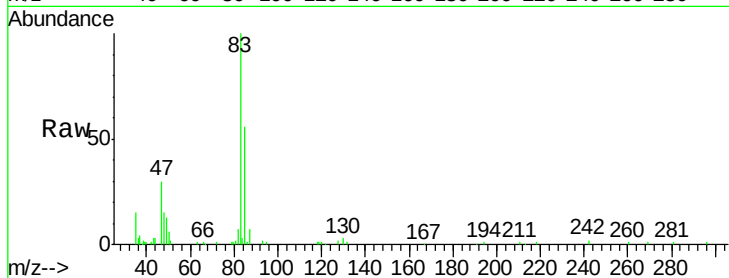
#29
Chloroform
Concen: 0.353 ppbv
RT: 5.73 min Scan# 915
Delta R.T. -0.02 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Instrument :
MSVOA_L
ClientSampleId :
IR-BR-SS

Tot Ion	83	Resp	64119
Ion Ratio	100	Lower	Upper
85	55.2	53.0	79.6

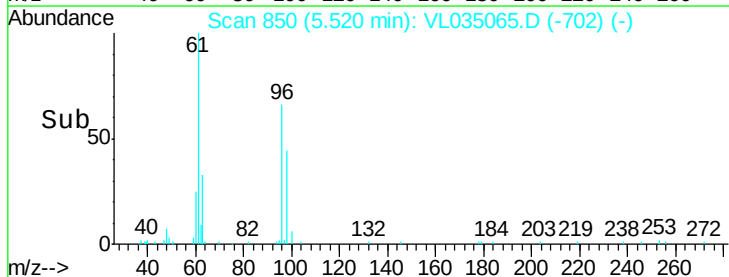
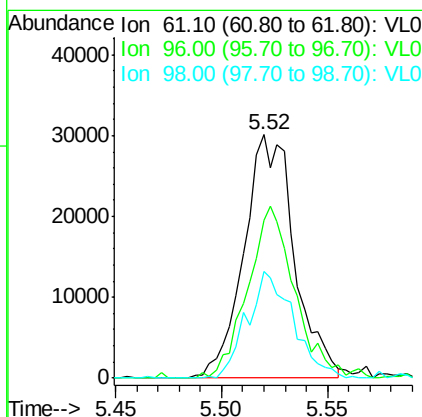
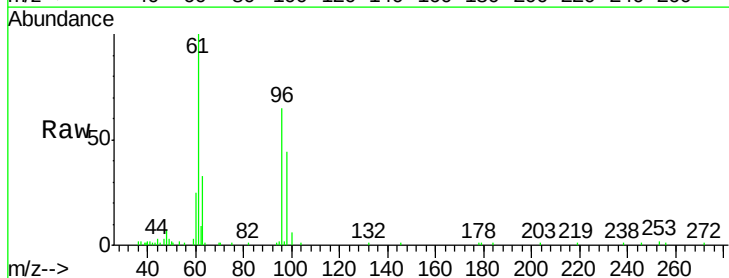
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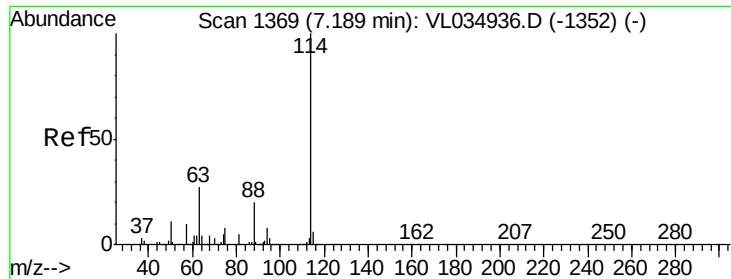
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#31
cis-1,2-Dichloroethene
Concen: 0.459 ppbv m
RT: 5.52 min Scan# 850
Delta R.T. -0.02 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Tgt Ion	61	Resp	49720
Ion Ratio	100	Lower	Upper
96	64.8	53.0	79.6
98	43.9	32.2	48.2





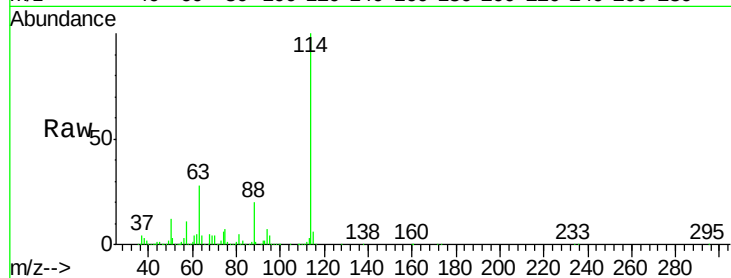
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.03 min
 Lab File: VL035065.D
 Acq: 20 May 2020 4:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-SS

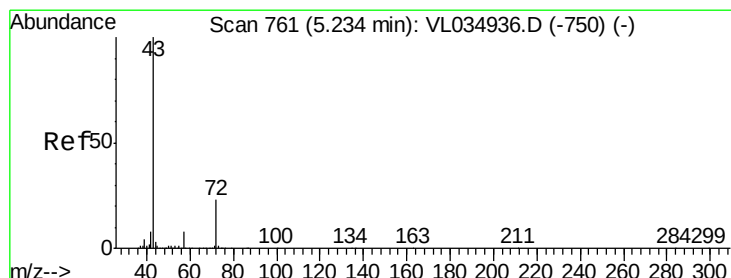
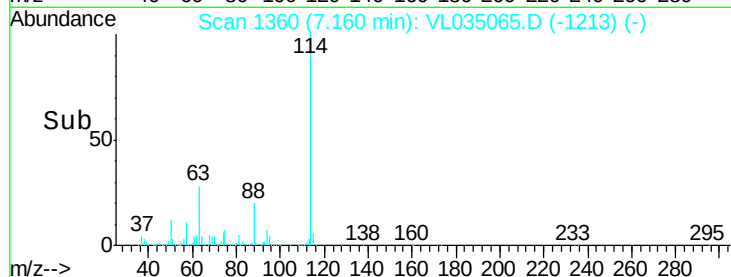
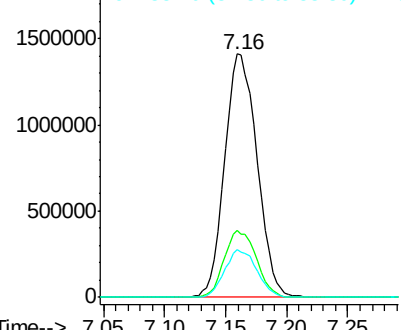
Tot Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.2	33.4
88	19.5	15.5	23.3

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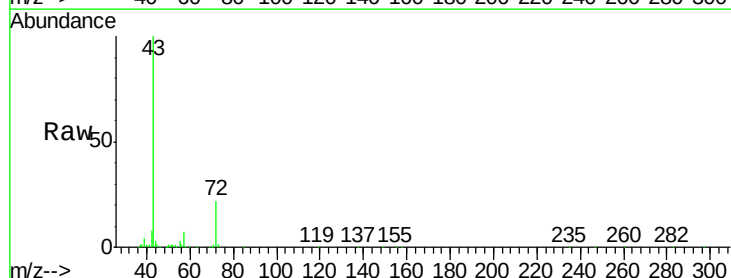


Abundance Ion 114.10 (113.80 to 114.80): VL0

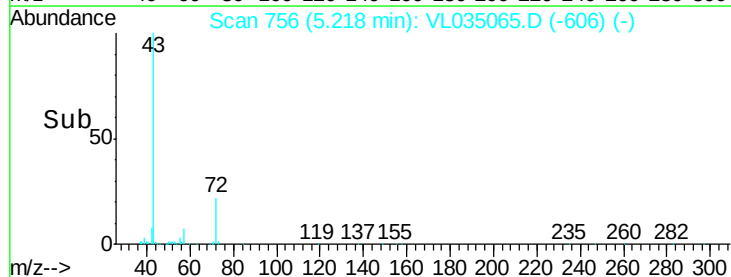
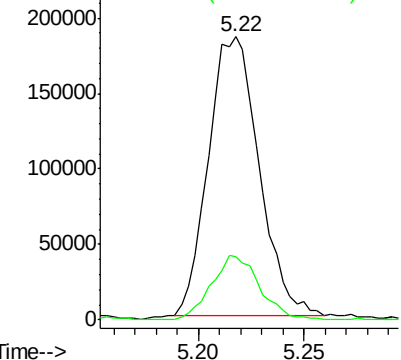


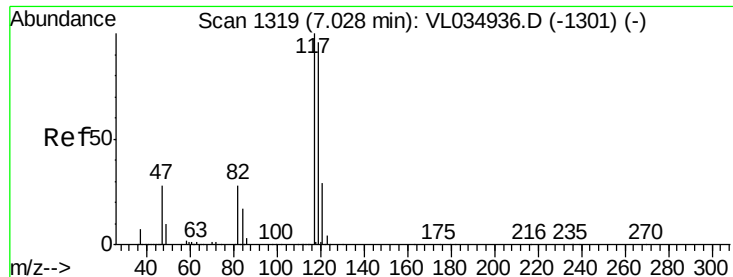
#34
 2-Butanone
 Concen: 1.927 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: VL035065.D
 Acq: 20 May 2020 4:46

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.0	27.0



Abundance Ion 43.10 (42.80 to 43.80): VL0





#35

Carbon Tetrachloride

Concen: 0.072 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL035065.D

Acq: 20 May 2020 4:46

Instrument :

MSVOA_L

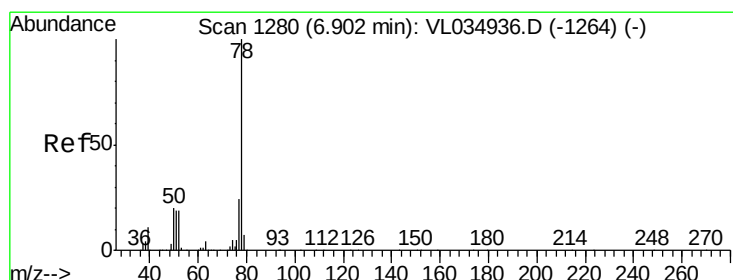
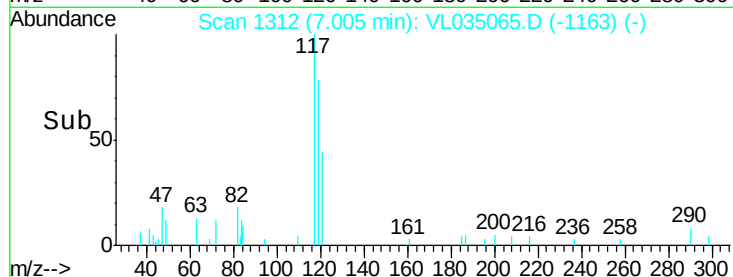
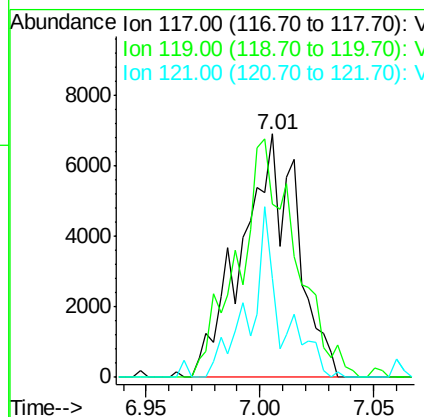
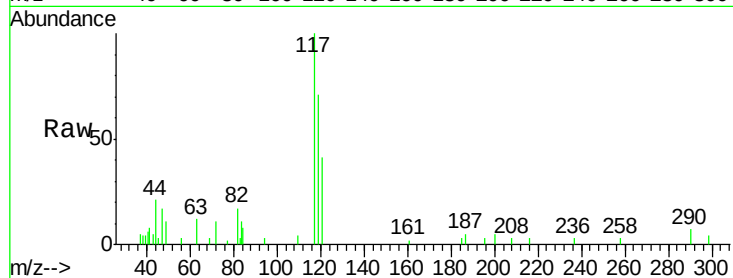
ClientSampleId :

IR-BR-SS

Tot Ion:	117	Resp:	11687
Ion Ratio	Lower	Upper	
117	100		
119	71.2	77.0	115.6#
121	40.6	23.0	34.6#

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#36

Benzene

Concen: 0.165 ppbv

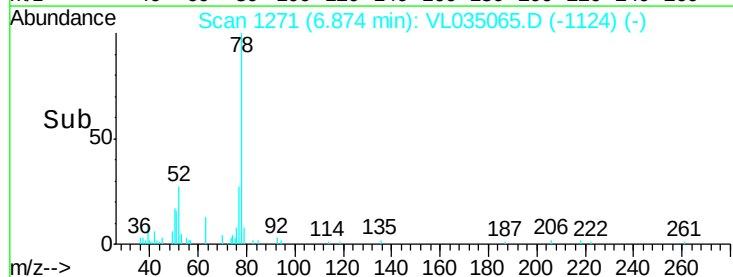
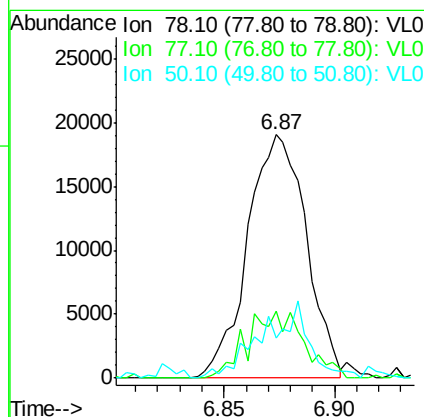
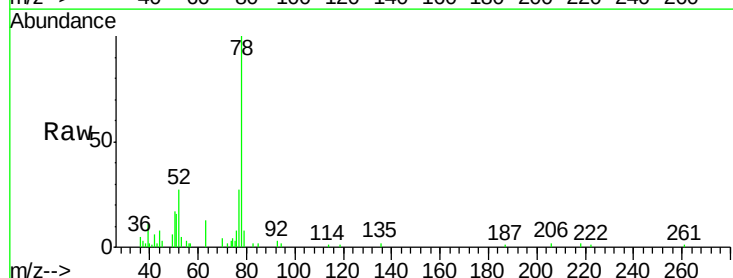
RT: 6.87 min Scan# 1271

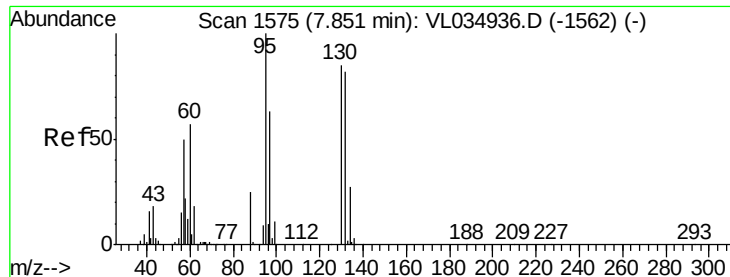
Delta R.T. -0.03 min

Lab File: VL035065.D

Acq: 20 May 2020 4:46

Tgt Ion:	78	Resp:	35040
Ion Ratio	Lower	Upper	
78	100		
77	27.4	19.0	28.6
50	16.7	15.8	23.8





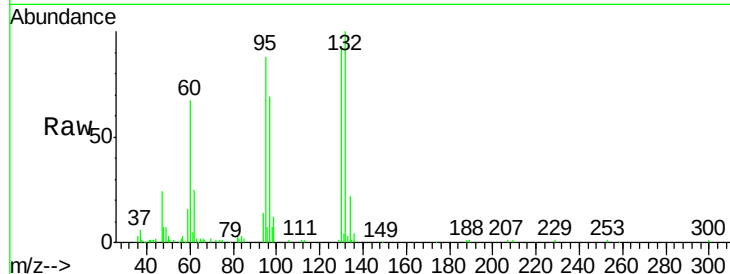
#38
 Trichloroethene
 Concen: 0.947 ppbv m
 RT: 7.83 min Scan# 1568
 Delta R.T. -0.02 min
 Lab File: VL035065.D
 Acq: 20 May 2020 4:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-SS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
130	100		78067		
95	95.5	93.4	140.0		
132	108.9	76.4	114.6		
97	75.1	58.5	87.7		

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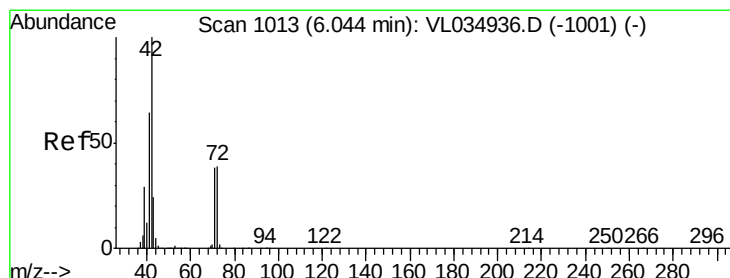
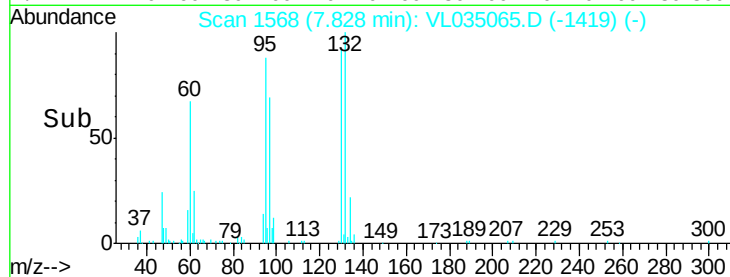
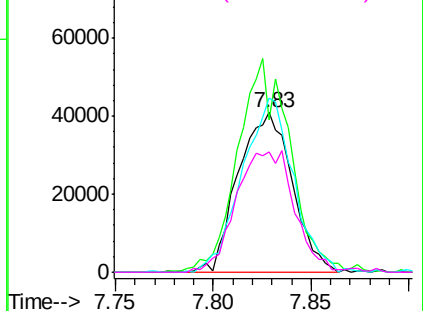


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

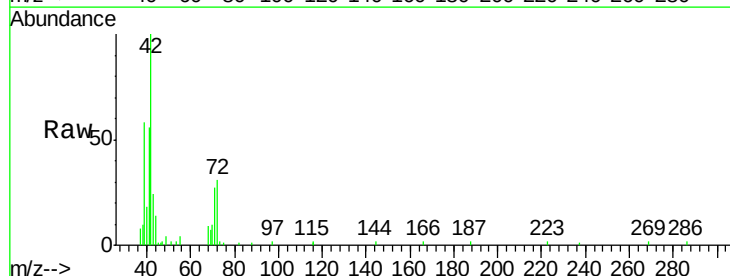
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#41
 Tetrahydrofuran
 Concen: 0.277 ppbv m
 RT: 6.04 min Scan# 1011
 Delta R.T. -0.01 min
 Lab File: VL035065.D
 Acq: 20 May 2020 4:46

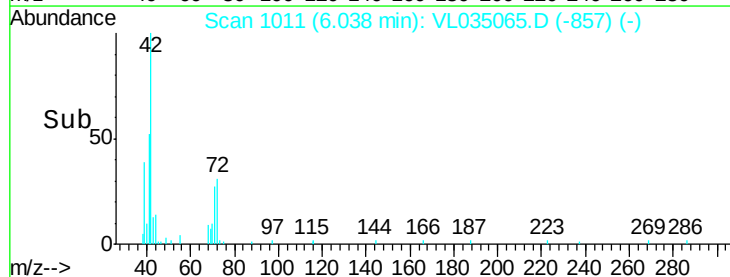
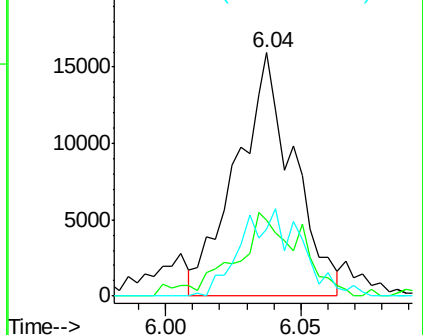
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
42	100		23402		
72	0.0	31.4	47.0#		
71	0.0	29.8	44.8#		

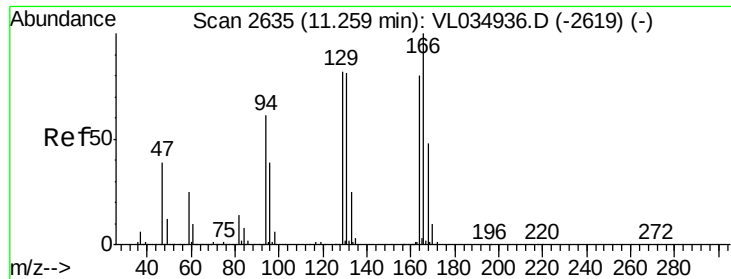


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





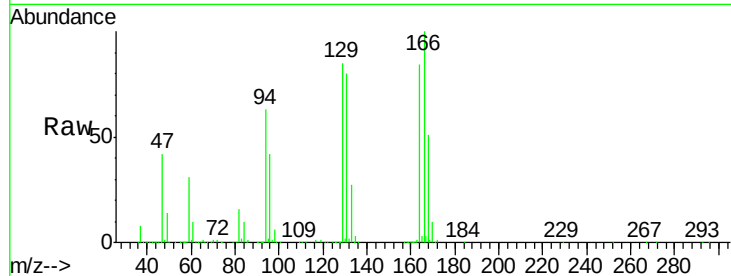
#52
Tetrachloroethene
Concen: 21.918 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. -0.03 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Instrument :
MSVOA_L
ClientSampleId :
IR-BR-SS

Tot Ion	Ratio	Lower	Upper
164	100		
166	119.8	100.7	151.1
129	102.3	83.0	124.4
131	95.7	81.0	121.4

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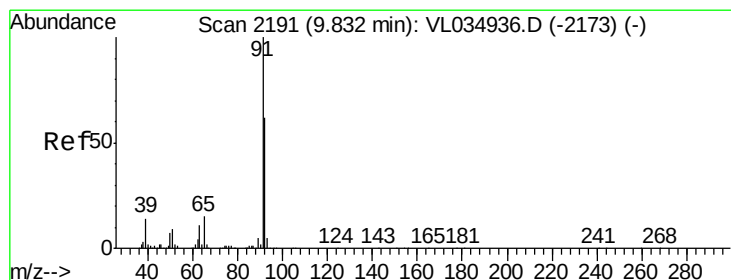
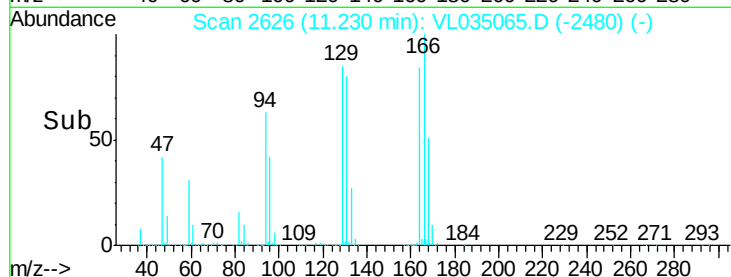
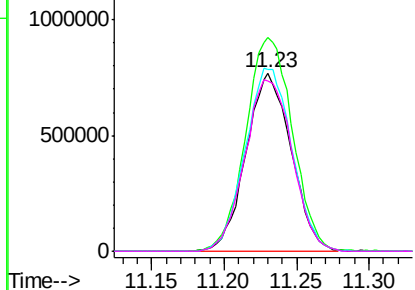


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

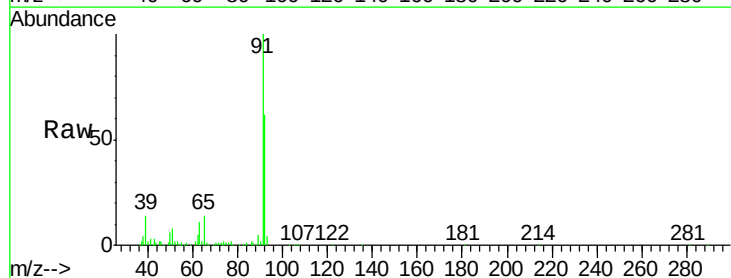
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



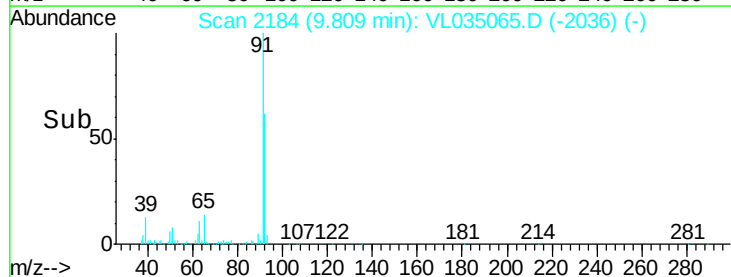
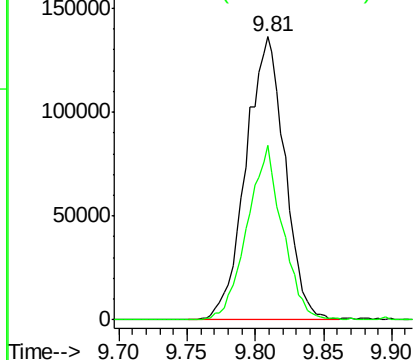
#53
Toluene
Concen: 1.193 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. -0.02 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

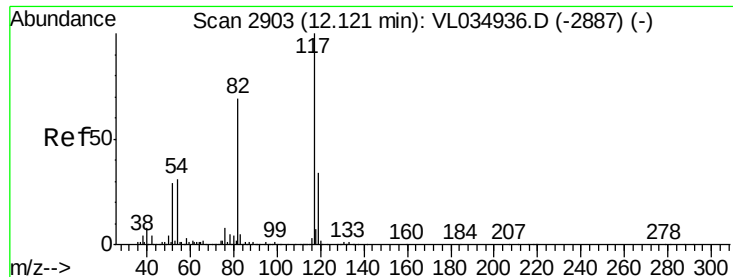
Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.5	48.6	73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





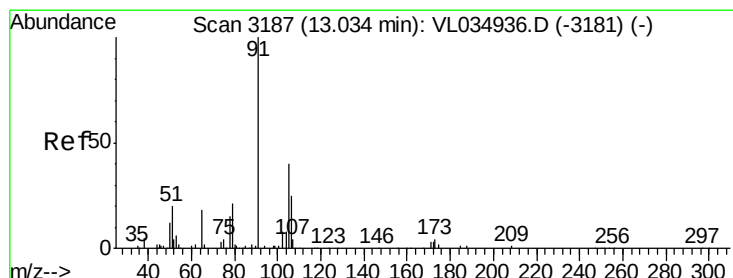
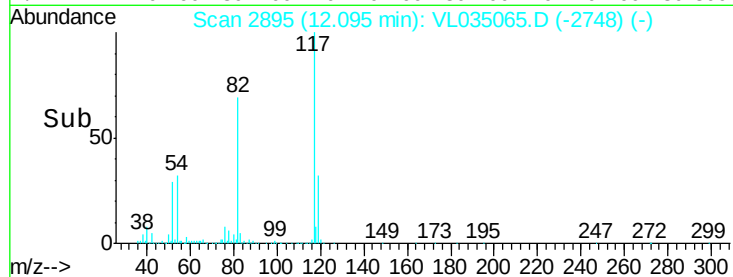
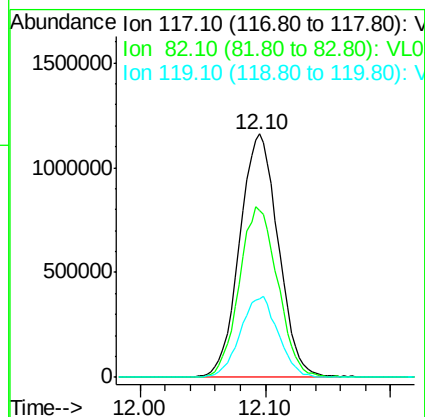
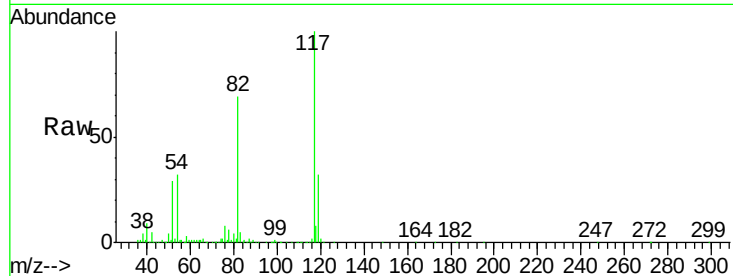
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.03 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Instrument :
MSVOA_L
ClientSampleId :
IR-BR-SS

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.7	53.1	79.7
119	32.7	26.7	40.1

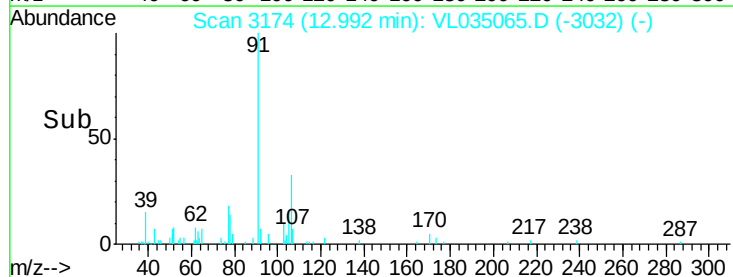
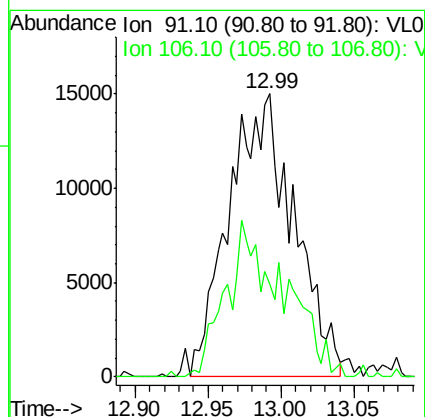
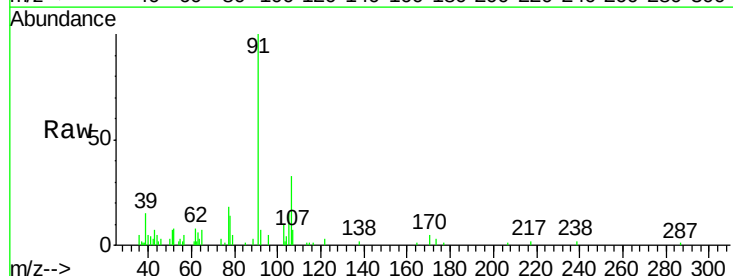
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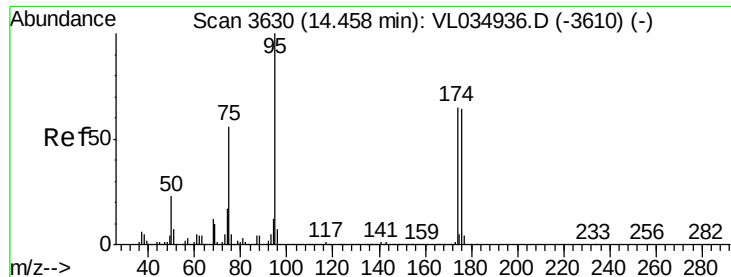
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#59
m/p-Xylene
Concen: 0.170 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. -0.04 min
Lab File: VL035065.D
Acq: 20 May 2020 4:46

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	66.0	99.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.524 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. -0.03 min
 Lab File: VL035065.D
 Acq: 20 May 2020 4:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-SS

Tot Ion: 95 Resp: 2117263
 Ion Ratio Lower Upper
 95 100
 174 64.2 51.5 77.3
 175 4.7 3.8 5.8

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