

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112619\
 Data File : VV013805.D
 Acq On : 26 Nov 2019 22:51
 Operator : SY/MD
 Sample : K6056-05
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 27 03:13:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 27 03:09:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	331767	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	335972	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	145818	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	79644	3.88	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.60%
7) Chloroethane-d5	1.58	69	79886	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.60%
11) 1,1-Dichloroethene-d2	2.14	63	444079	12.85	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	257.00%#
20) 2-Butanone-d5	3.92	46	251558	58.93	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.86%
24) Chloroform-d	4.40	84	171425	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.80%
26) 1,2-Dichloroethane-d4	5.08	65	99249	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
32) Benzene-d6	5.10	84	367192	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.80%
36) 1,2-Dichloropropane-d6	6.11	67	116605	4.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.20%
41) Toluene-d8	7.36	98	305001	3.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.00%
43) trans-1,3-Dichloropropene-	7.66	79	39907	3.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.40%
46) 2-Hexanone-d5	8.13	63	178529	48.14	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.28%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	91403	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	132742	5.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.60	64	1091	0.091	ug/L #	82
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	10907	0.596	ug/L #	84
12) 1,1-Dichloroethene	2.14	96	650968	40.811	ug/L #	68
13) Acetone	2.30	43	3874	1.298	ug/L	90
17) Methyl tert-butyl Ether	2.80	73	38195	0.875	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	4130	0.229	ug/L	98
19) 1,1-Dichloroethane	3.23	63	469701	13.062	ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	484335	22.930	ug/L	99
25) Chloroform	4.42	83	57259	1.502	ug/L	95
27) 1,2-Dichloroethane	5.19	62	4645	0.213	ug/L #	85
29) 1,1,1-Trichloroethane	4.66	97	186755	5.434	ug/L	98
31) Carbon tetrachloride	4.66	117	23743	0.785	ug/L	95
34) Trichloroethene	5.96	95	1622912	71.386	ug/L	98
35) Methylcyclohexane	6.12	83	28723	0.947	ug/L #	19
37) 1,2-Dichloropropane	6.11	63	13568	0.641	ug/L #	86
44) trans-1,3-Dichloropropene	7.66	75	2019	0.086	ug/L	94
45) 1,1,2-Trichloroethane	7.88	97	2912	0.193	ug/L	92

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Response via : Initial Calibration

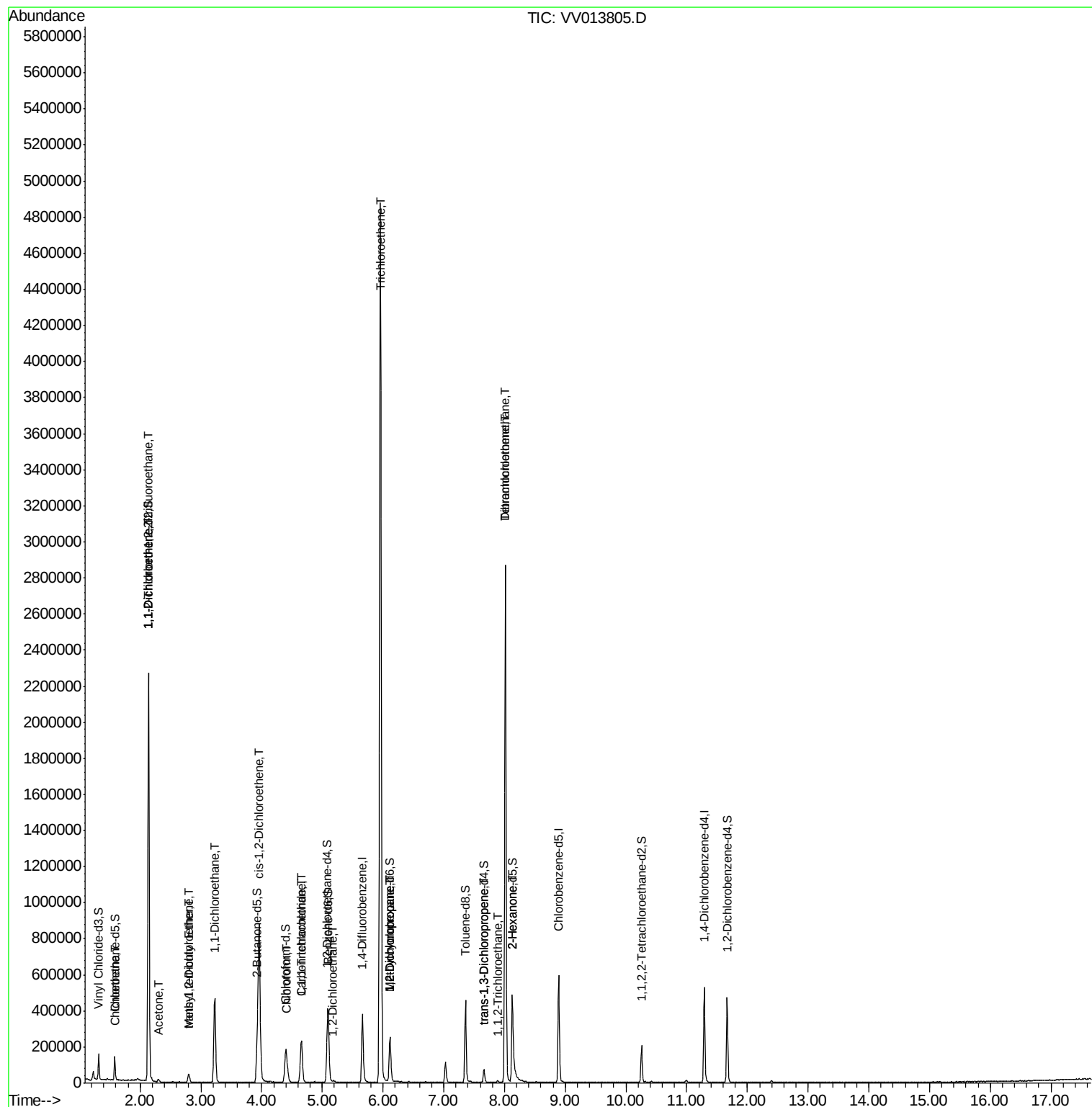
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.02	164	682837	34.590	uq/L	98
48) 2-Hexanone	8.13	43	22426	2.542	uq/L #	74
49) Dibromochloromethane	8.02	129	568727	29.376	uq/L #	10

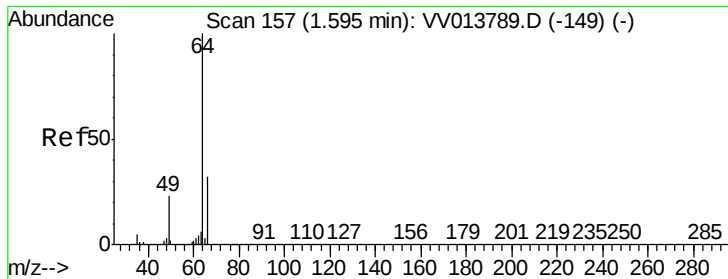
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.091 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Instrument :

MSVOA_V

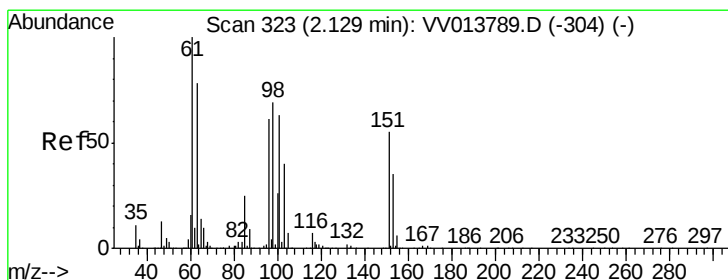
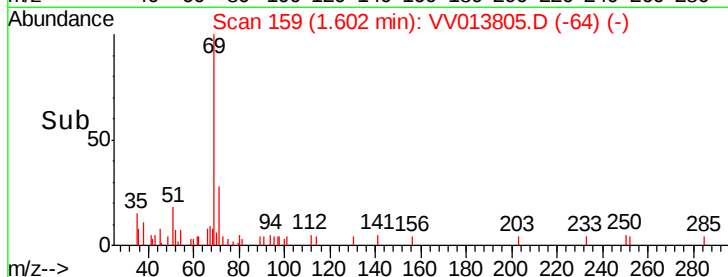
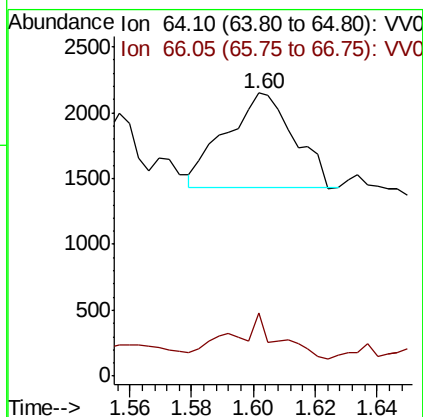
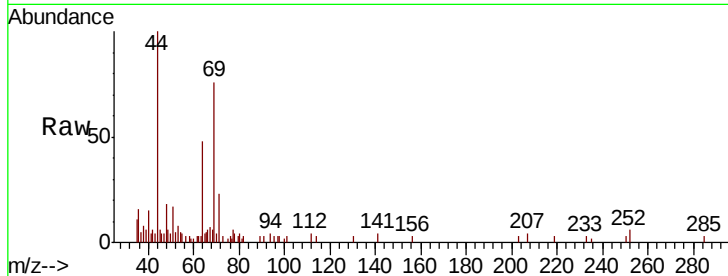
ClientSampleId :

Tot Ion: 64 Resp: 1091

Ion Ratio Lower Upper

64 100

66 22.5 22.6 42.0#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.596 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

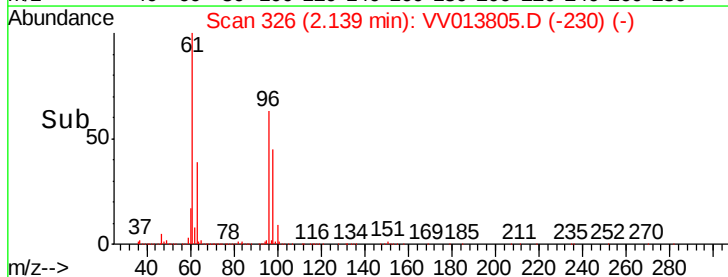
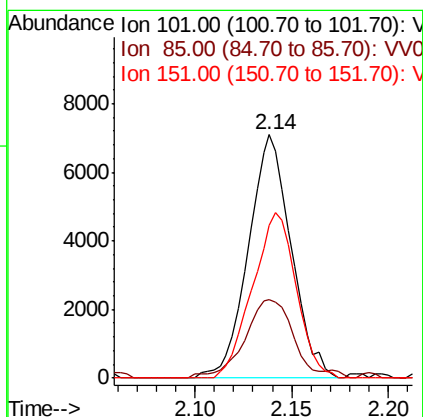
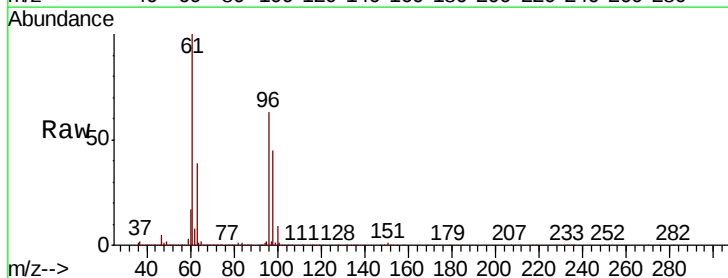
Tgt Ion: 101 Resp: 10907

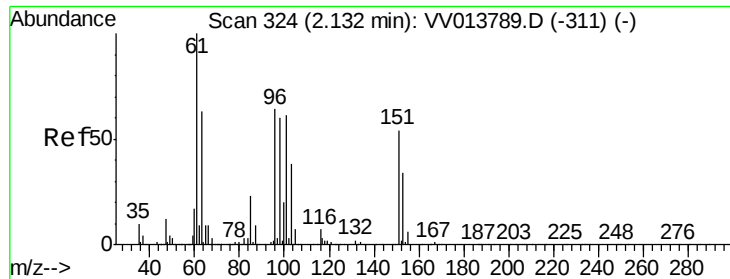
Ion Ratio Lower Upper

101 100

85 35.7 33.4 50.0

151 69.2 69.4 104.0#

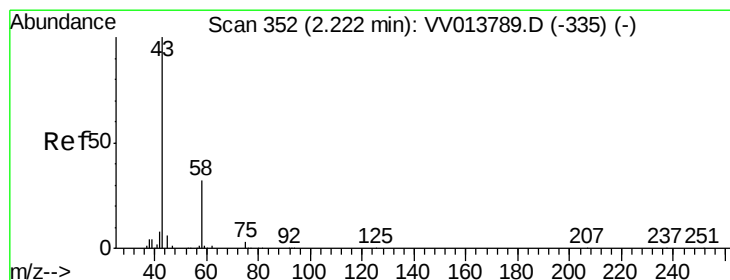
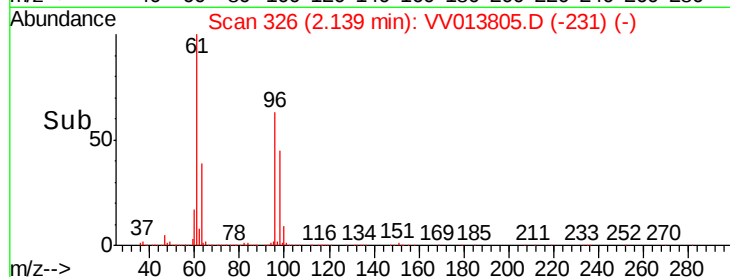
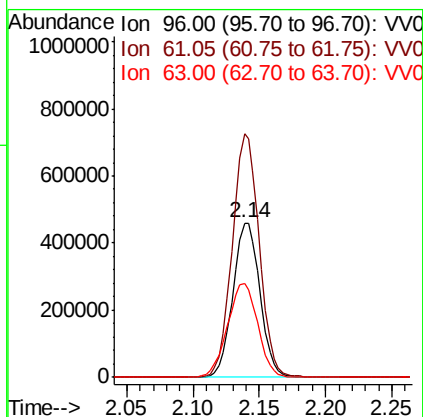
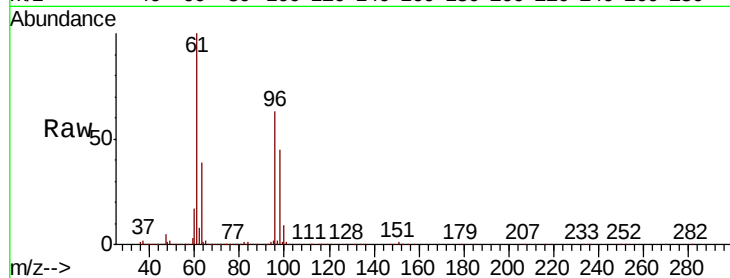




#12
 1,1-Dichloroethene
 Concen: 40.811 ug/L
 RT: 2.14 min Scan# 326
 Delta R.T. 0.01 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

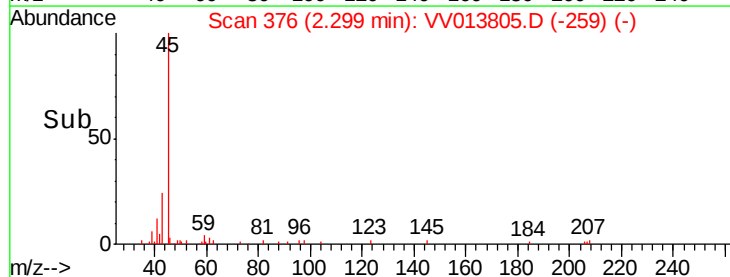
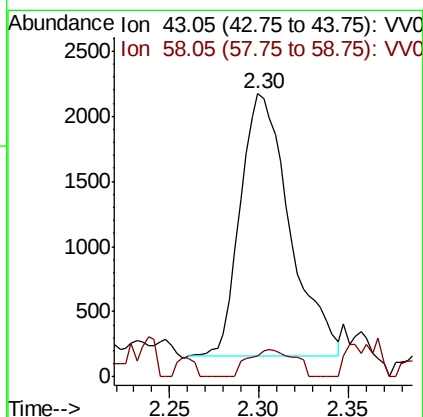
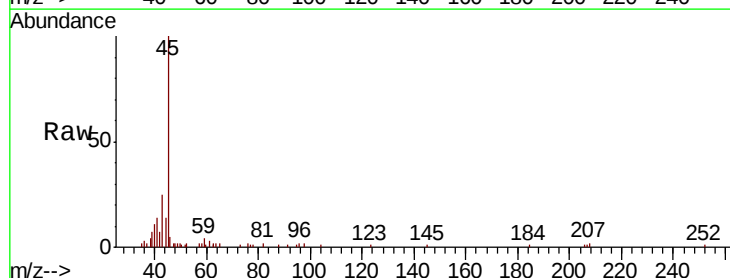
Instrument :
 MSVOA_V
 ClientSampleId :

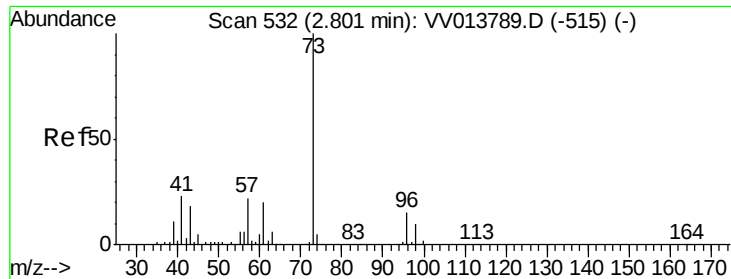
Tot Ion: 96 Resp: 650968
 Ion Ratio Lower Upper
 96 100
 61 158.1 116.3 215.9
 63 61.1 96.7 179.7#



#13
 Acetone
 Concen: 1.298 ug/L
 RT: 2.30 min Scan# 376
 Delta R.T. 0.08 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

Tgt Ion: 43 Resp: 3874
 Ion Ratio Lower Upper
 43 100
 58 9.7 0.0 27.2

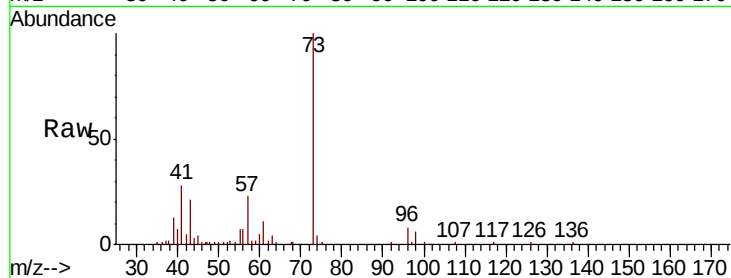




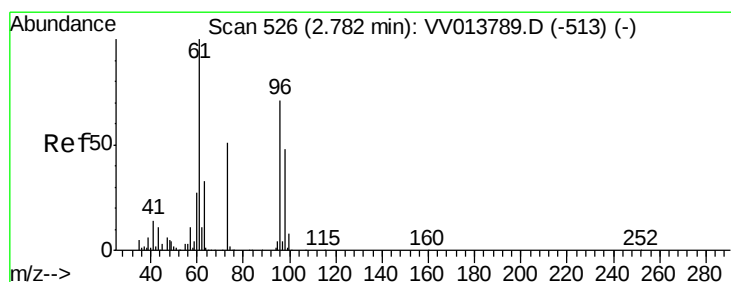
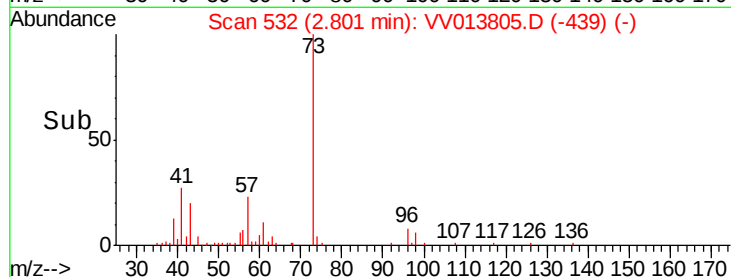
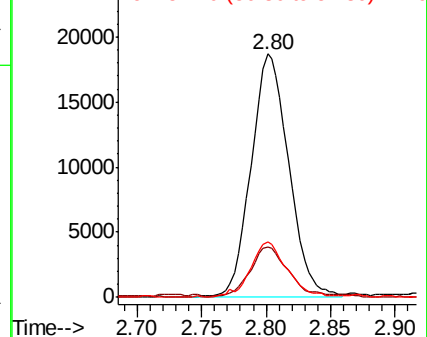
#17
Methvl tert-butvl Ether
Concen: 0.875 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV013805.D
Acq: 26 Nov 2019 22:51

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 73 Resp: 38195
Ion Ratio Lower Upper
73 100
43 21.3 15.5 23.3
57 21.9 17.5 26.3

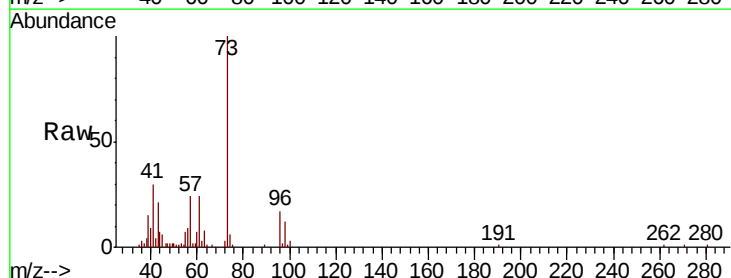


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

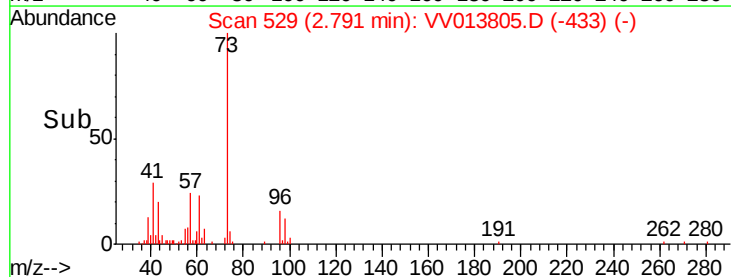
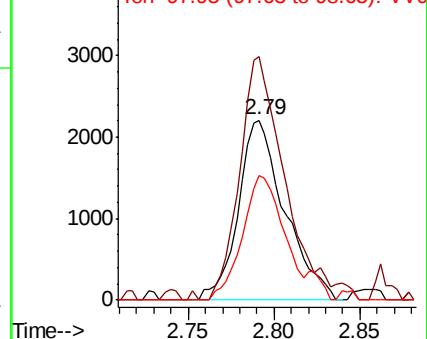


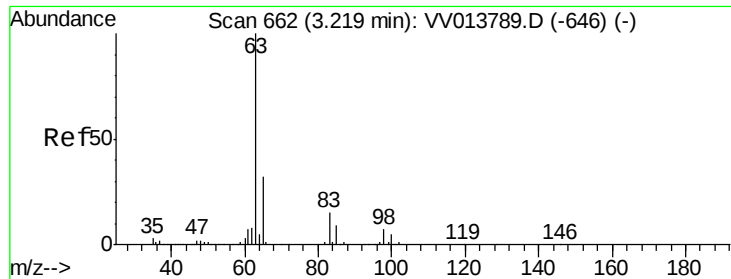
#18
trans-1,2-Dichloroethene
Concen: 0.229 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.01 min
Lab File: VV013805.D
Acq: 26 Nov 2019 22:51

Tgt Ion: 96 Resp: 4130
Ion Ratio Lower Upper
96 100
61 135.5 95.1 176.7
98 69.6 46.5 86.3



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

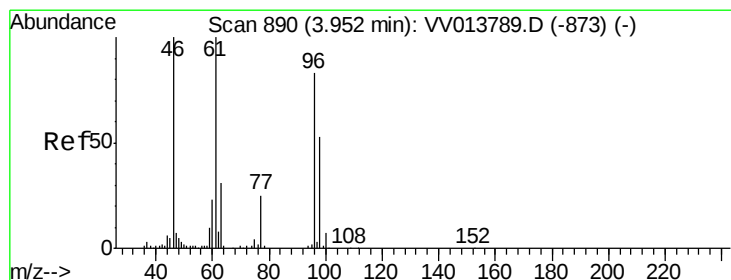
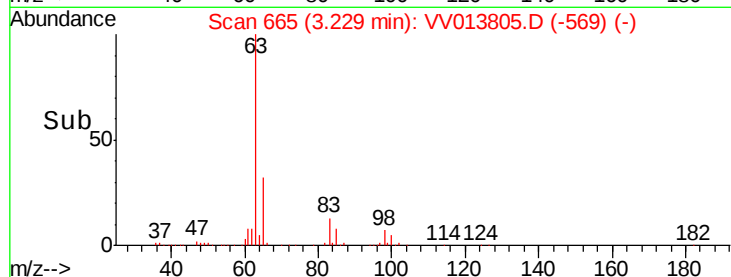
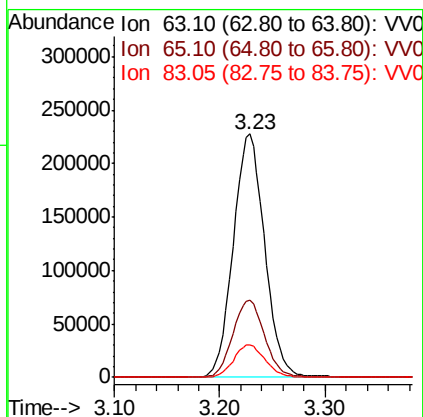
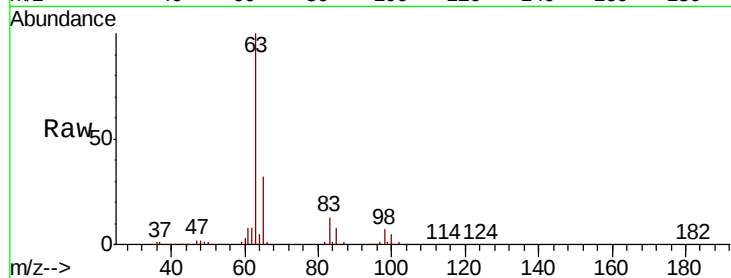




#19
 1,1-Dichloroethane
 Concen: 13.062 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.01 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

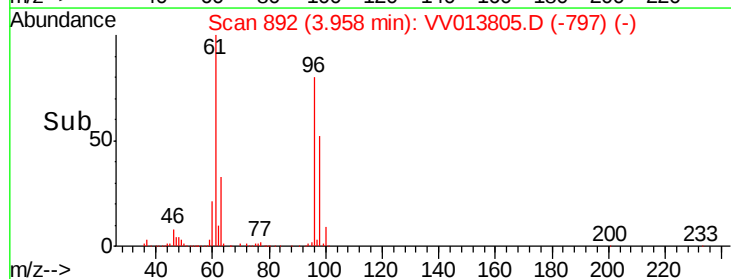
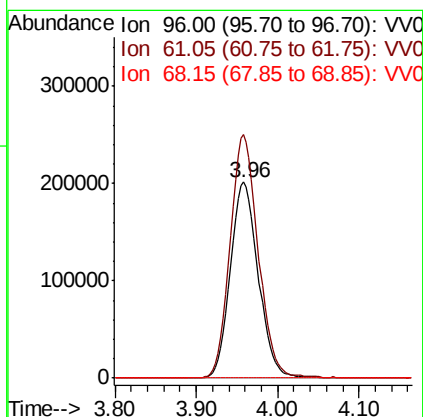
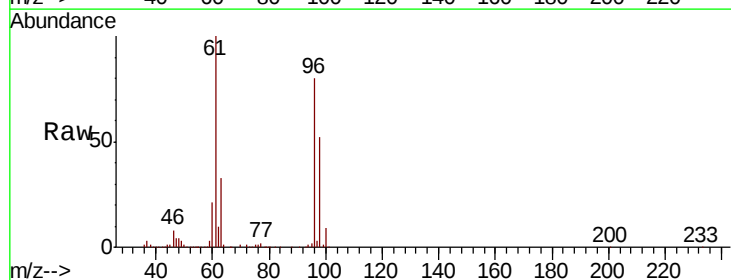
Instrument :
 MSVOA_V
 ClientSampleId :

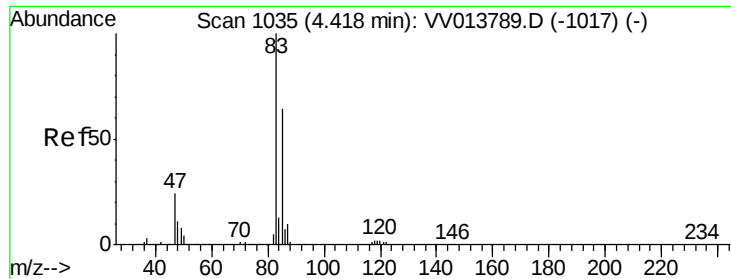
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.7	22.7	42.1
83	13.2	9.2	17.2



#22
 cis-1,2-Dichloroethene
 Concen: 22.930 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.2	86.1	159.9
68	0.0	0.0	0.0





#25

Chloroform

Concen: 1.502 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

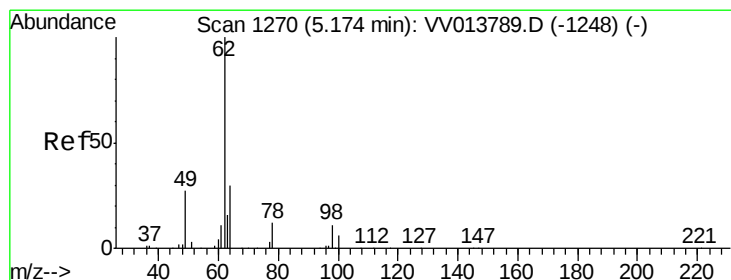
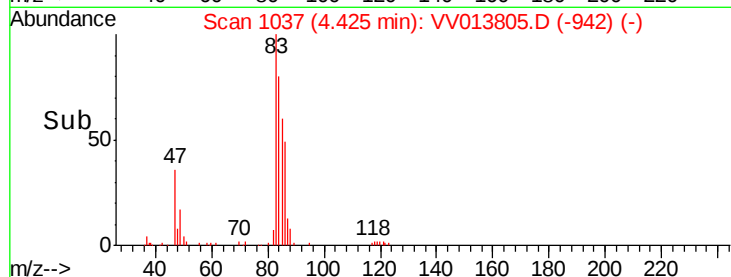
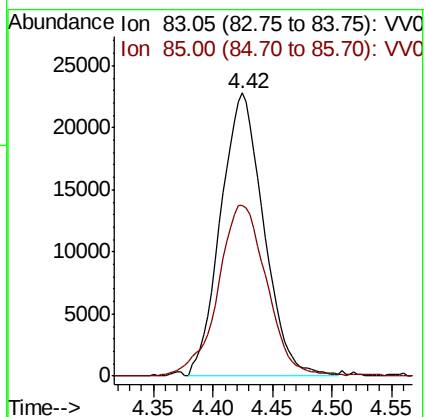
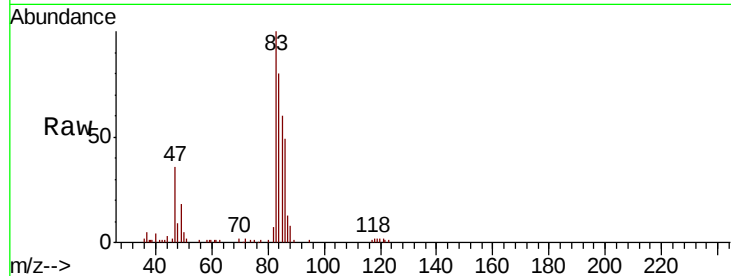
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 83 Resp: 57259

Ion Ratio Lower Upper

83 100

85 60.5 45.1 83.7



#27

1,2-Dichloroethane

Concen: 0.213 ug/L

RT: 5.19 min Scan# 1274

Delta R.T. 0.01 min

Lab File: VV013805.D

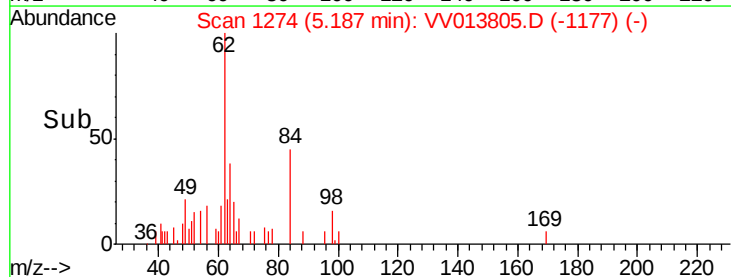
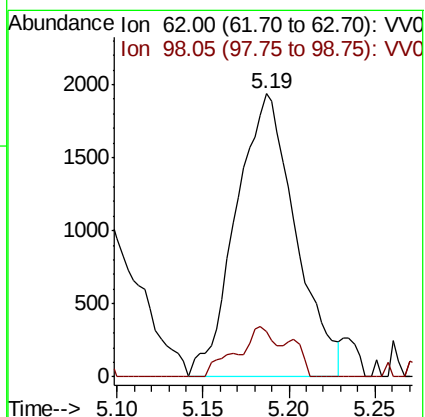
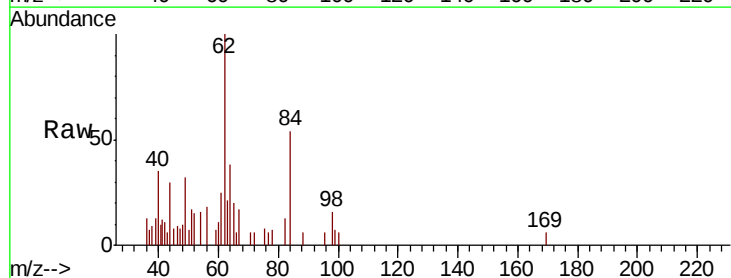
Acq: 26 Nov 2019 22:51

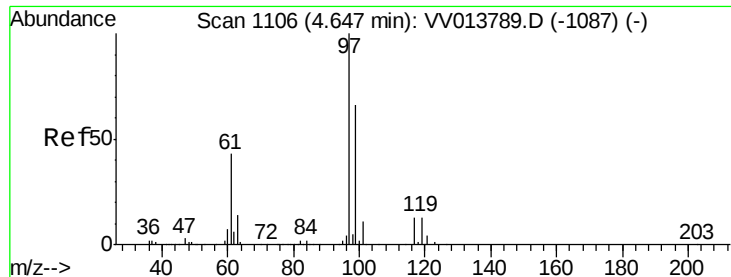
Tgt Ion: 62 Resp: 4645

Ion Ratio Lower Upper

62 100

98 15.8 8.2 12.2#

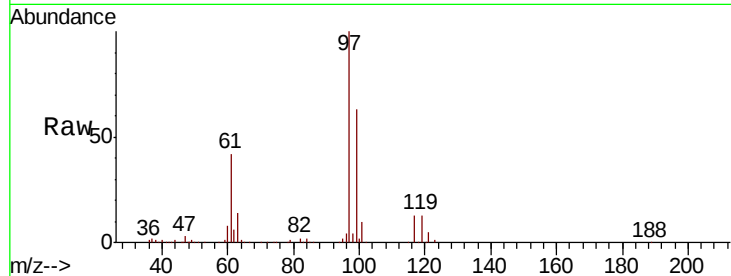




#29
 1,1,1-Trichloroethane
 Concen: 5.434 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	97	Resp	186755
Ion Ratio	Lower	Upper	
97	100		
99	63.6	51.7	77.5
61	41.7	35.0	52.6

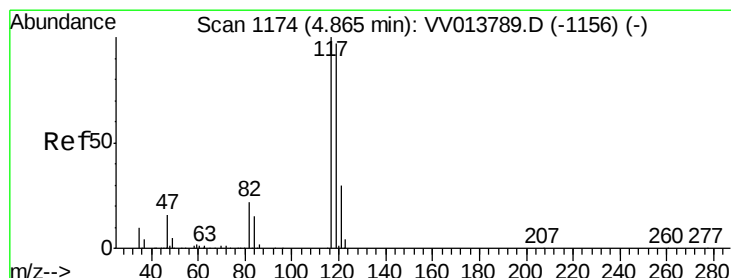
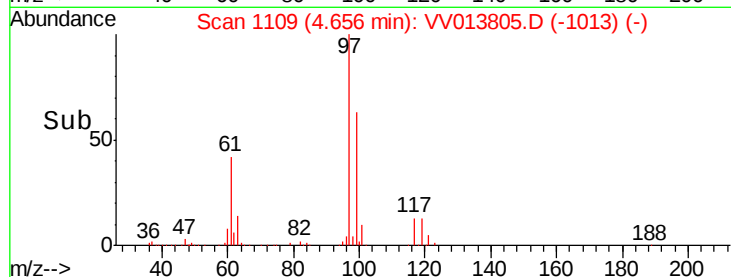
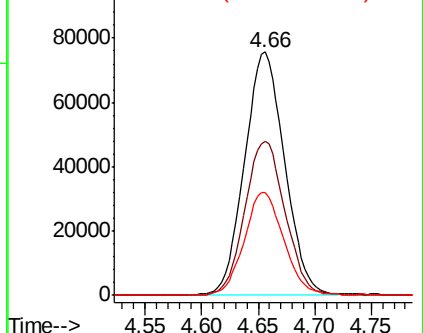


Abundance

Ion 96.95 (96.65 to 97.65): VV0

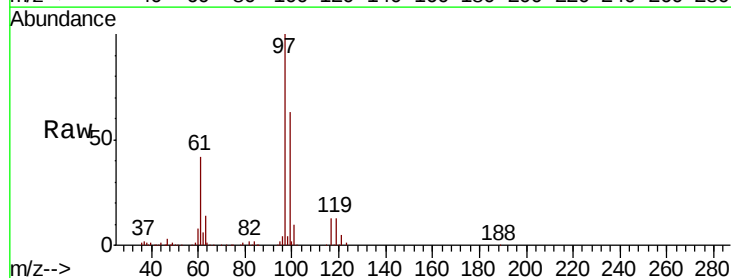
Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#31
 Carbon tetrachloride
 Concen: 0.785 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. -0.21 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

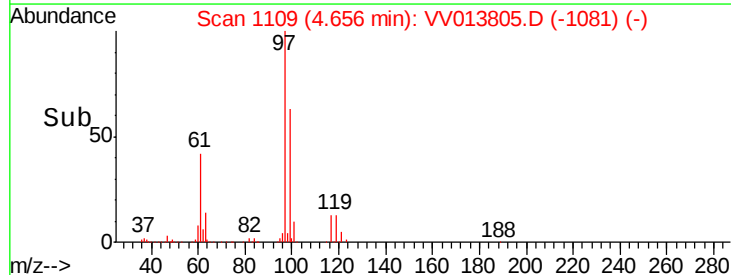
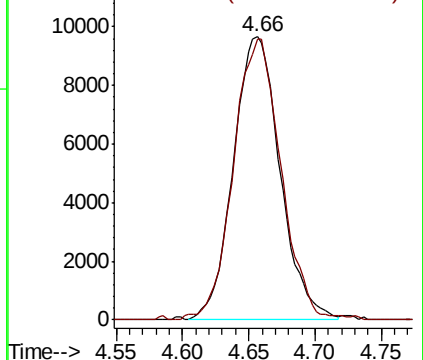
Tgt Ion	117	Resp	23743
Ion Ratio	Lower	Upper	
117	100		
119	100.6	76.8	115.2

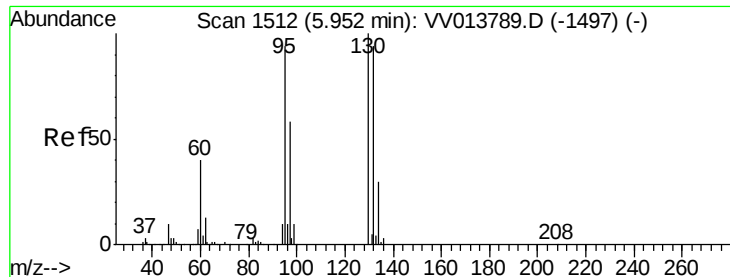


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V





#34

Trichloroethene

Concen: 71.386 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 95 Resp: 1622912

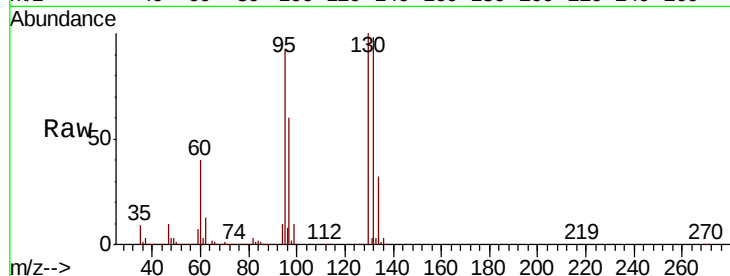
Ion Ratio Lower Upper

95 100

97 65.1 45.6 84.8

132 106.0 70.5 130.9

130 108.1 75.9 140.9

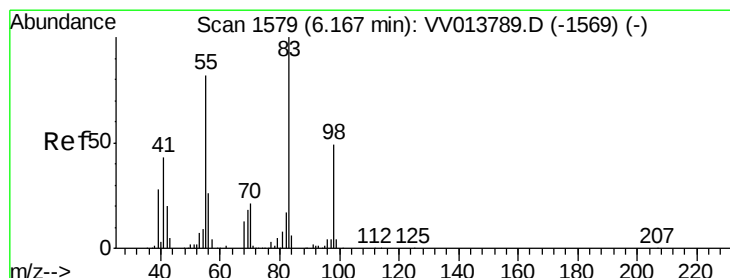
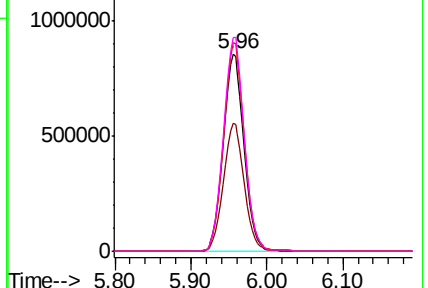
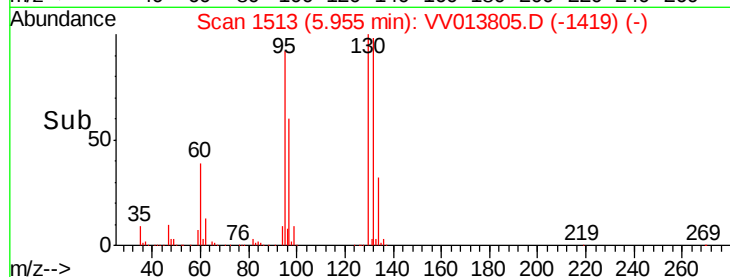


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.947 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.05 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

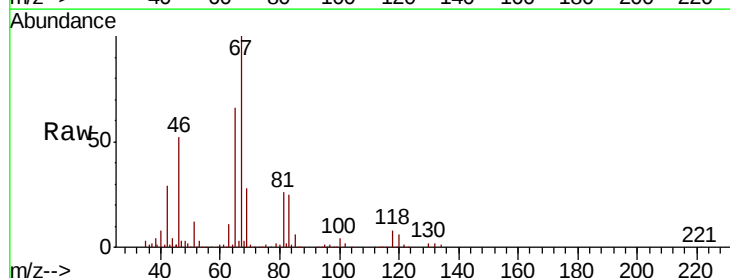
Tgt Ion: 83 Resp: 28723

Ion Ratio Lower Upper

83 100

55 0.4 60.3 90.5#

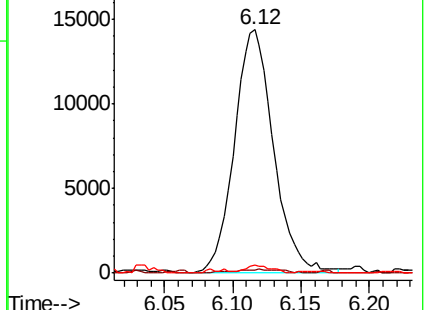
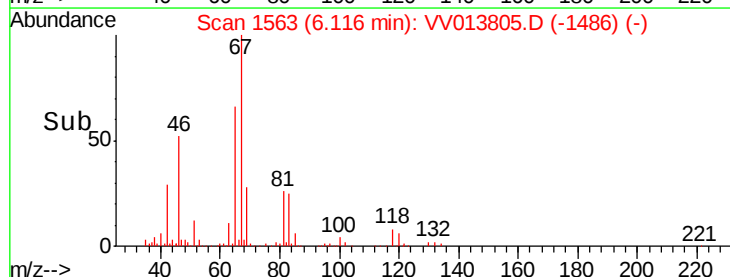
98 0.0 38.1 57.1#

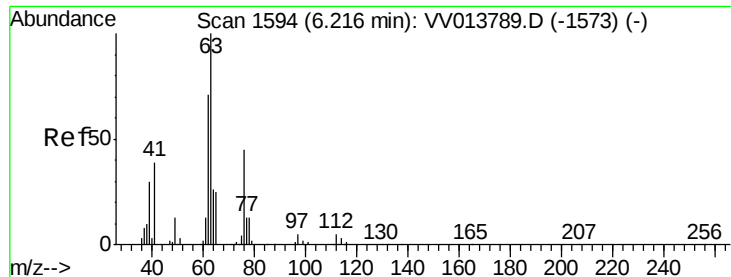


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

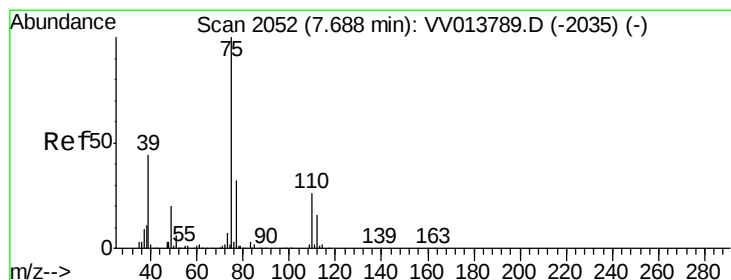
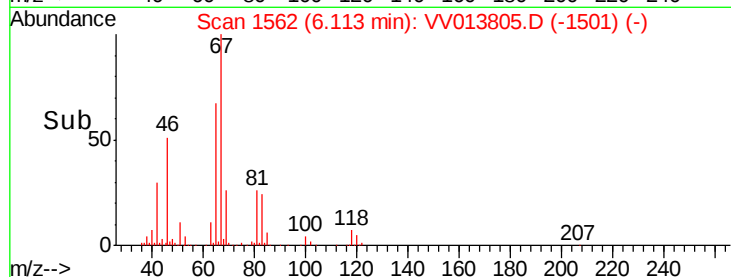
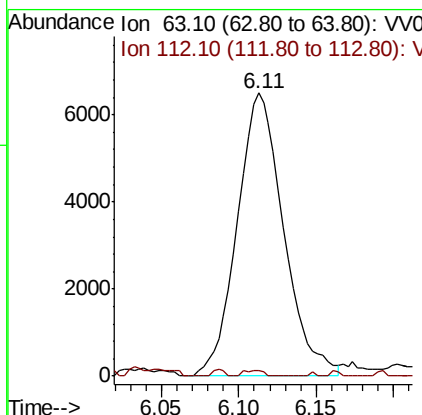
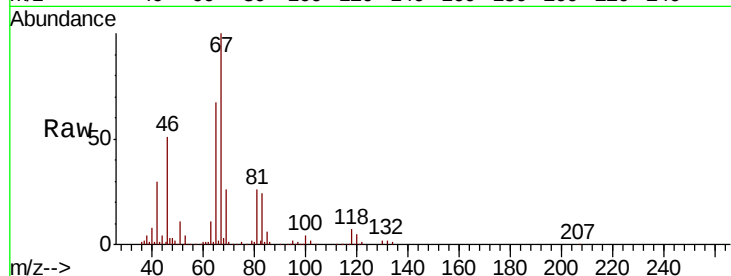




#37
 1,2-Dichloropropane
 Concen: 0.641 ug/L
 RT: 6.11 min Scan# 1562
 Delta R.T. -0.10 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

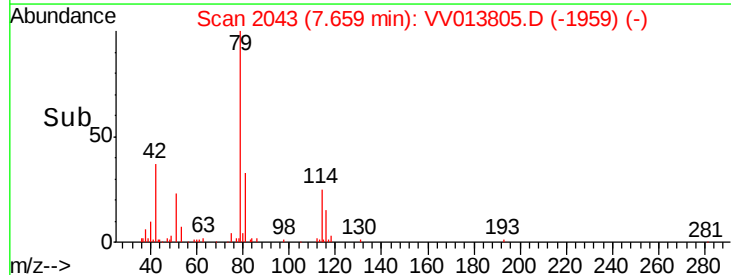
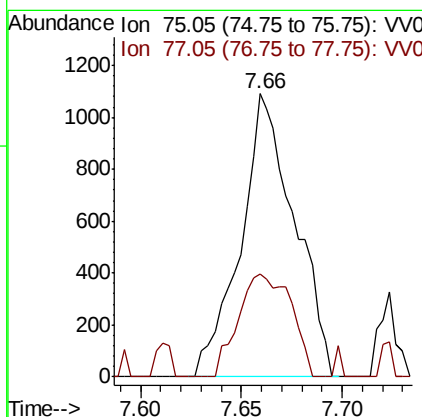
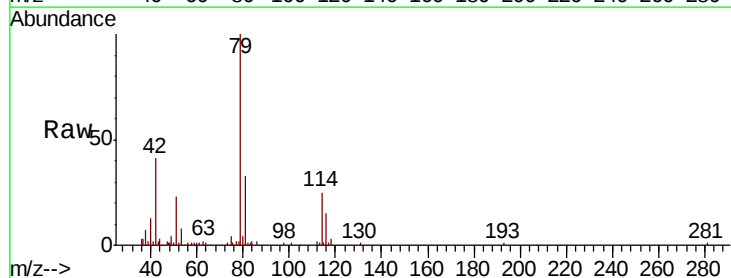
Instrument :
 MSVOA_V
 ClientSampled :

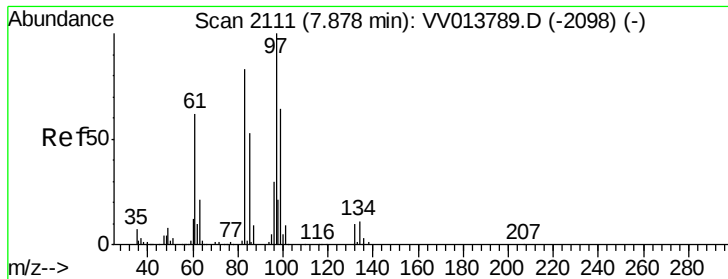
Tot Ion: 63 Resp: 13568
 Ion Ratio Lower Upper
 63 100
 112 0.8 4.4 6.6#



#44
 trans-1,3-Dichloropropene
 Concen: 0.086 ug/L
 RT: 7.66 min Scan# 2043
 Delta R.T. -0.03 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

Tgt Ion: 75 Resp: 2019
 Ion Ratio Lower Upper
 75 100
 77 36.5 23.0 42.8





#45

1,1,2-Trichloroethane

Concen: 0.193 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 2912

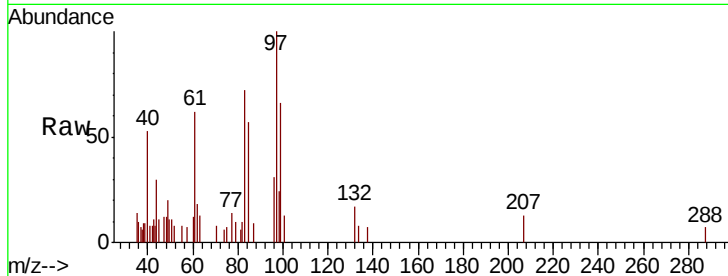
Ion Ratio Lower Upper

97 100

99 66.0 44.2 82.0

83 72.3 59.7 110.9

85 56.7 38.3 71.1

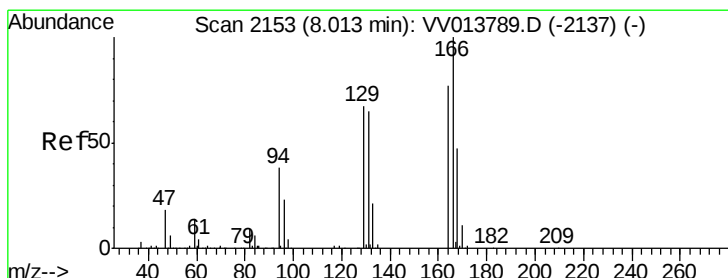
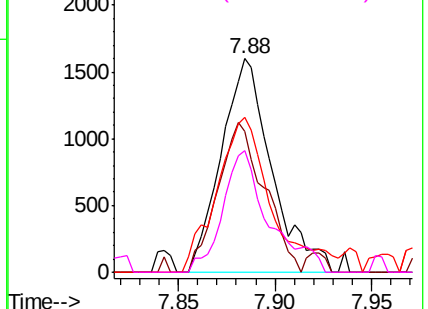
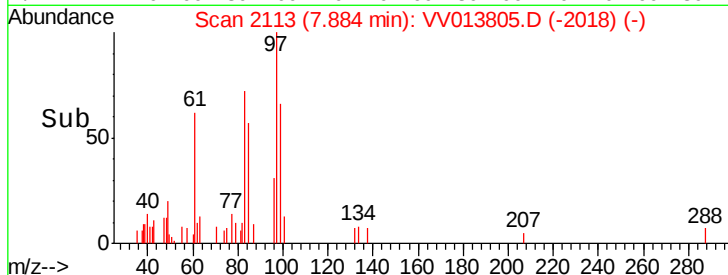


Abundance Ion 96.95 (96.65 to 97.65): VV013789.D (-2098) (-)

Ion 99.05 (98.75 to 99.75): VV013789.D (-2098) (-)

Ion 82.95 (82.65 to 83.65): VV013789.D (-2098) (-)

Ion 85.00 (84.70 to 85.70): VV013789.D (-2098) (-)



#47

Tetrachloroethene

Concen: 34.590 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Tgt Ion: 164 Resp: 682837

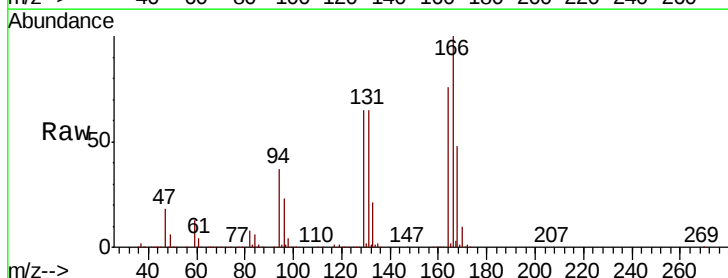
Ion Ratio Lower Upper

164 100

129 85.6 60.3 112.1

131 85.1 59.9 111.3

166 130.9 89.1 165.5

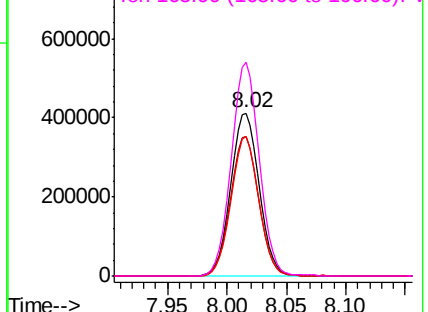
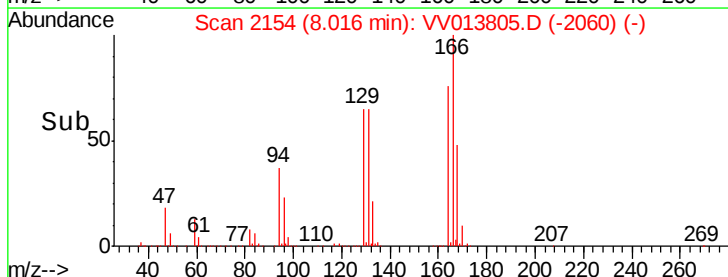


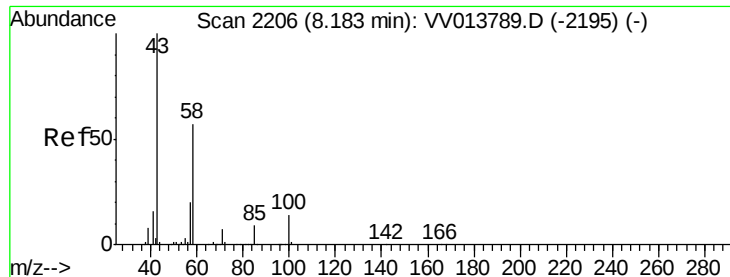
Abundance Ion 163.90 (163.60 to 164.60): VV013789.D (-2137) (-)

Ion 128.95 (128.65 to 129.65): VV013789.D (-2137) (-)

Ion 130.95 (130.65 to 131.65): VV013789.D (-2137) (-)

Ion 165.90 (165.60 to 166.60): VV013789.D (-2137) (-)

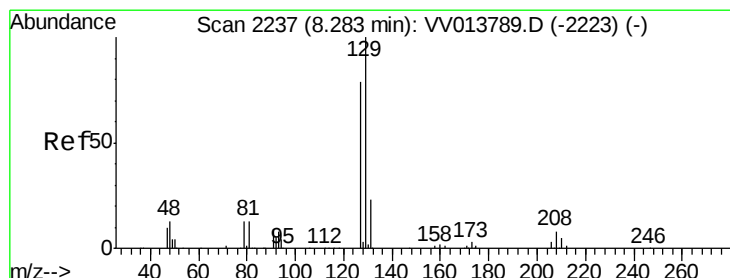
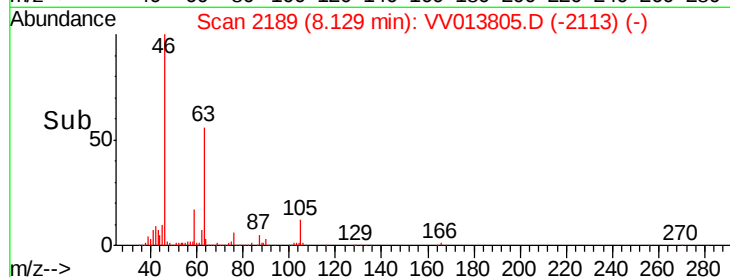
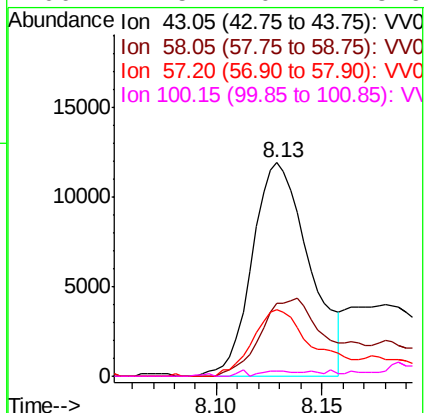
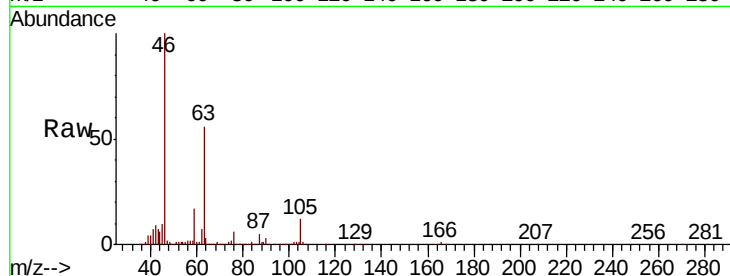




#48
2-Hexanone
Concen: 2.542 ug/L
RT: 8.13 min Scan# 2189
Delta R.T. -0.05 min
Lab File: VV013805.D
Acq: 26 Nov 2019 22:51

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 22426
Ion Ratio Lower Upper
43 100
58 37.6 43.2 64.8#
57 33.6 15.4 23.2#
100 1.5 10.4 15.6#



#49
Dibromochloromethane
Concen: 29.376 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.27 min
Lab File: VV013805.D
Acq: 26 Nov 2019 22:51

Tgt Ion: 129 Resp: 568727
Ion Ratio Lower Upper
129 100
127 0.0 55.7 103.5#

