

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112619\
 Data File : VV013807.D
 Acq On : 26 Nov 2019 23:39
 Operator : SY/MD
 Sample : K6056-07
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 27 03:14:14 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	315943	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	317218	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	140923	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	80401	4.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.20%
7) Chloroethane-d5	1.58	69	76783	4.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.40%
11) 1,1-Dichloroethene-d2	2.14	63	816593	24.81	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	496.20%#
20) 2-Butanone-d5	3.94	46	251531	61.87	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	123.74%
24) Chloroform-d	4.40	84	176017	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
26) 1,2-Dichloroethane-d4	5.08	65	96157	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%
32) Benzene-d6	5.10	84	359663	4.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.80%
36) 1,2-Dichloropropane-d6	6.11	67	117624	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.40%
41) Toluene-d8	7.36	98	295952	3.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.00%
43) trans-1,3-Dichloropropene-	7.66	79	40526	4.27	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.40%
46) 2-Hexanone-d5	8.13	63	192476	54.97	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.94%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	91227	5.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	131467	5.28	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	1519	0.082	ug/L	83
8) Chloroethane	1.32	64	3117	0.274	ug/L	91
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	177642	10.200	ug/L	98
12) 1,1-Dichloroethene	2.14	96	1388191	91.387	ug/L #	65
16) Methylene chloride	2.53	84	3204	0.154	ug/L	98
17) Methyl tert-butyl Ether	2.80	73	81576	1.962	ug/L	98
18) trans-1,2-Dichloroethene	2.80	96	2010	0.117	ug/L	94
19) 1,1-Dichloroethane	3.23	63	1287758	37.605	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	230440	11.456	ug/L	100
25) Chloroform	4.43	83	33497	0.923	ug/L	94
27) 1,2-Dichloroethane	5.18	62	11681	0.562	ug/L	98
29) 1,1,1-Trichloroethane	4.66	97	600060	18.492	ug/L	99
31) Carbon tetrachloride	4.66	117	78354	2.745	ug/L	98
34) Trichloroethene	5.95	95	1991586	92.781	ug/L	97
35) Methylcyclohexane	6.11	83	29083	1.015	ug/L #	19
37) 1,2-Dichloropropane	6.12	63	12609	0.630	ug/L #	85
39) cis-1,3-Dichloropropene	7.03	75	2954	0.104	ug/L #	60

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QLast Update : Wed Nov 27 03:09:16 2019
Response via : Initial Calibration

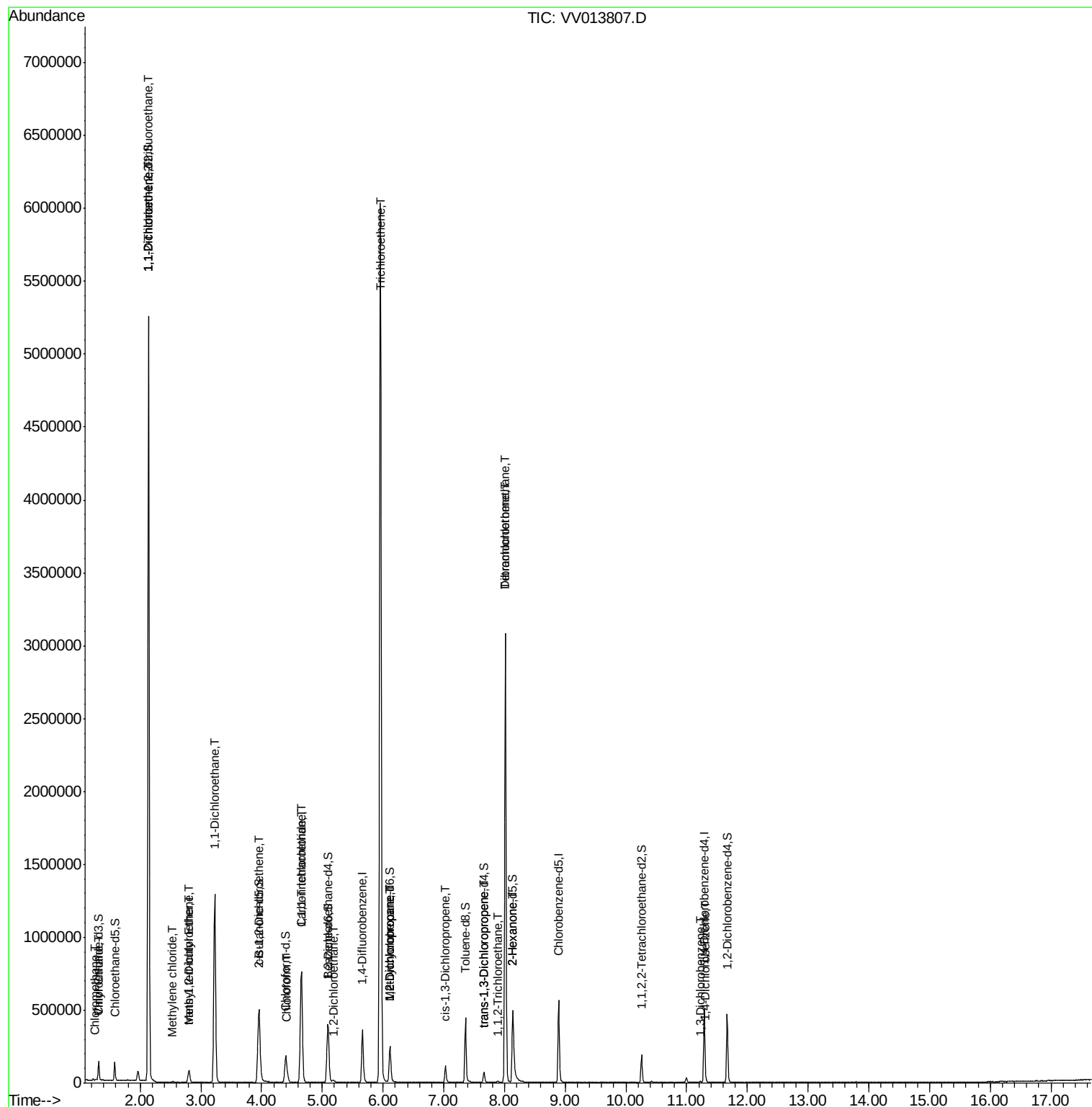
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.66	75	1912	0.086	ug/L	89
45) 1,1,2-Trichloroethane	7.88	97	3477	0.244	ug/L	92
47) Tetrachloroethene	8.02	164	740516	39.729	ug/L	98
48) 2-Hexanone	8.14	43	23886	2.868	ug/L #	79
49) Dibromochloromethane	8.02	129	623363	34.102	ug/L #	10
62) 1,3-Dichlorobenzene	11.23	146	4035	0.099	ug/L	91
63) 1,4-Dichlorobenzene	11.32	146	2646	0.064	ug/L	91

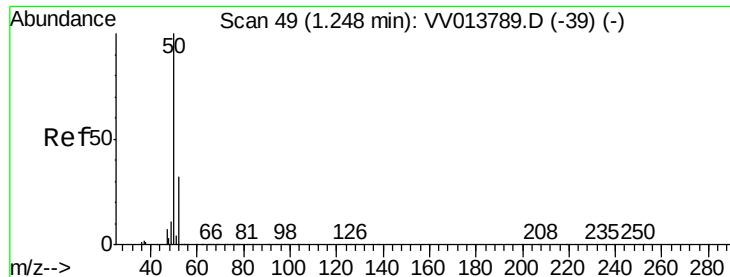
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.082 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013807.D

Acq: 26 Nov 2019 23:39

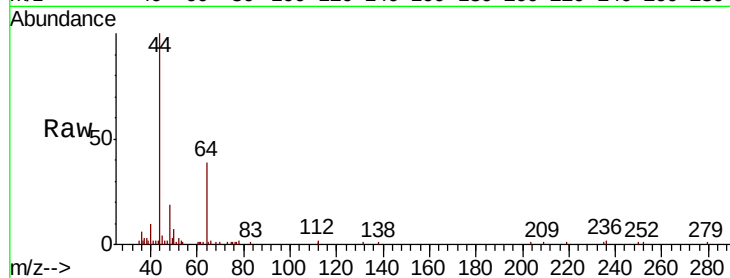
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 50 Resp: 1519

Ion Ratio Lower Upper

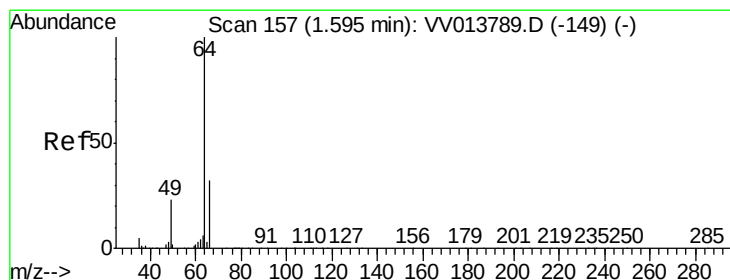
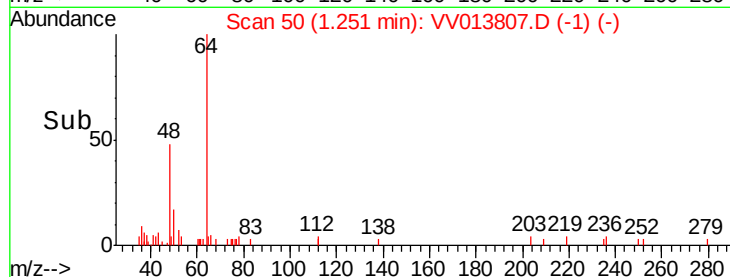
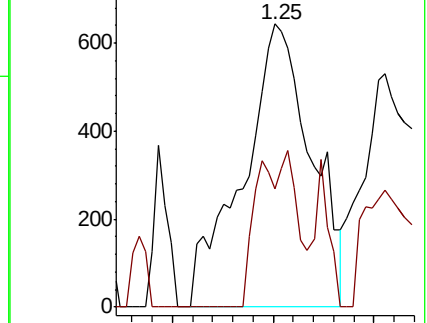
50 100

52 41.7 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#8

Chloroethane

Concen: 0.274 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV013807.D

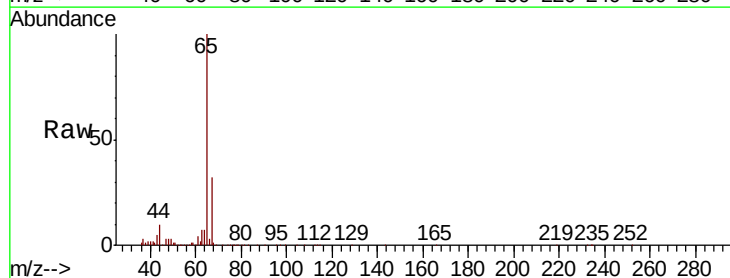
Acq: 26 Nov 2019 23:39

Tgt Ion: 64 Resp: 3117

Ion Ratio Lower Upper

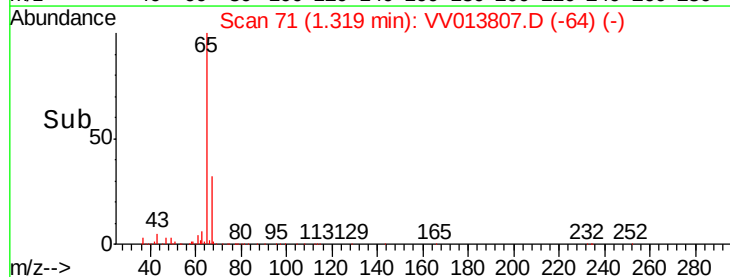
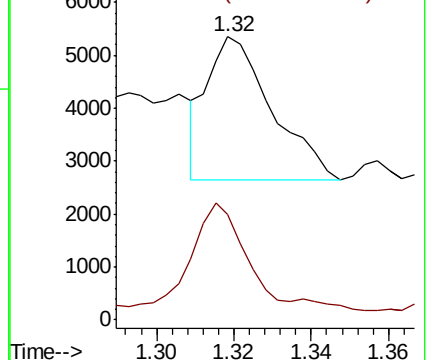
64 100

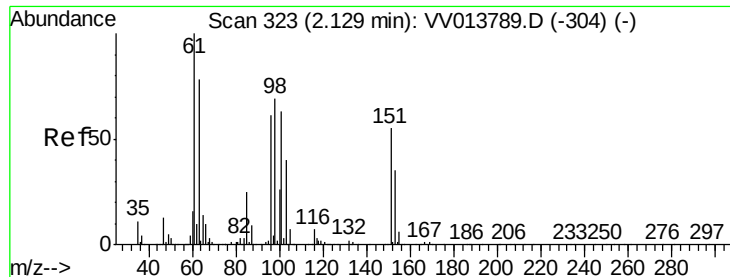
66 37.3 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#10

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

Concen: 10.200 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013807.D

Acq: 26 Nov 2019 23:39

Instrument :

MSVOA_V

ClientSampleId :

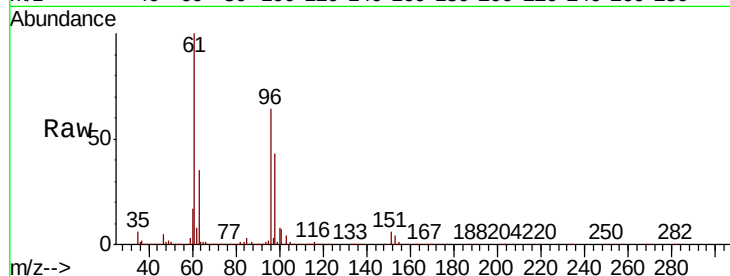
Tot Ion:101 Resp: 177642

Ion Ratio Lower Upper

101 100

85 41.0 33.4 50.0

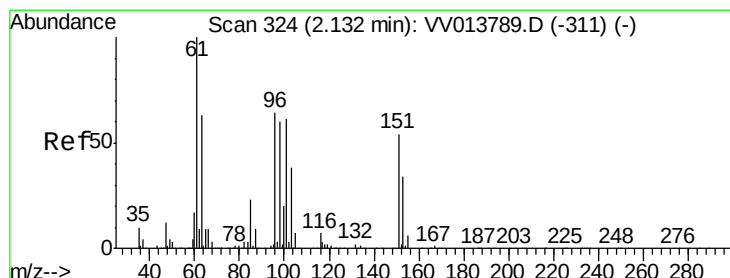
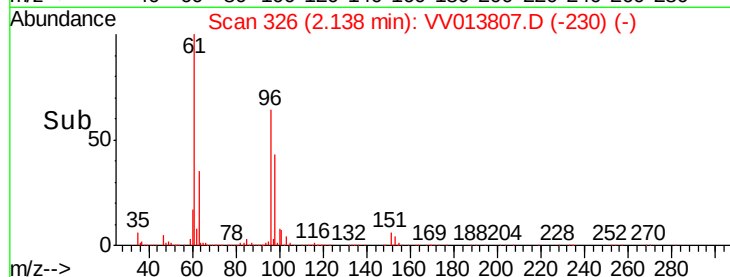
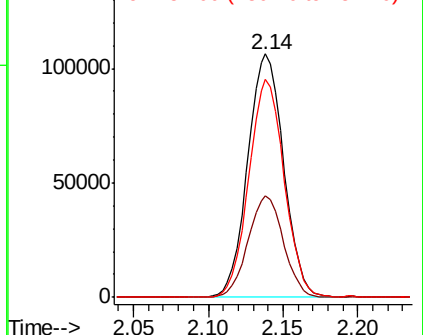
151 88.4 69.4 104.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 91.387 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013807.D

Acq: 26 Nov 2019 23:39

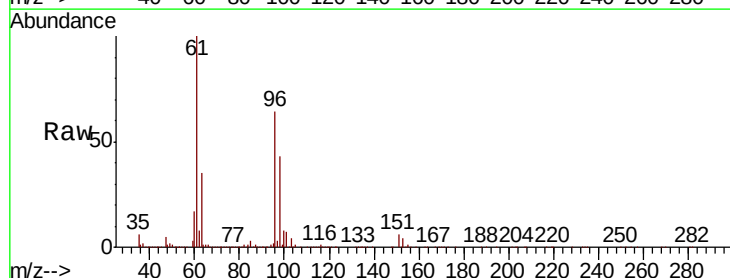
Tgt Ion: 96 Resp: 1388191

Ion Ratio Lower Upper

96 100

61 156.0 116.3 215.9

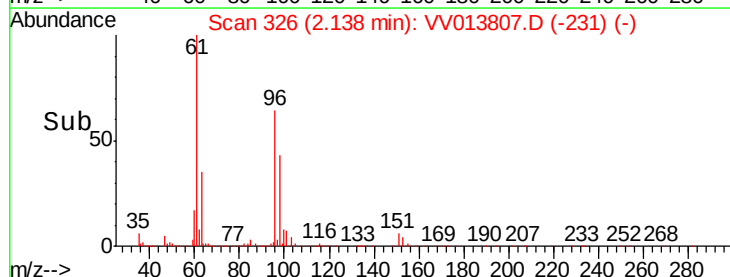
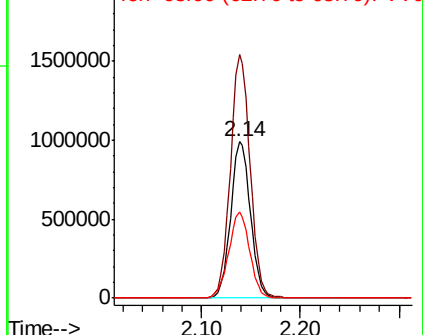
63 55.1 96.7 179.7#

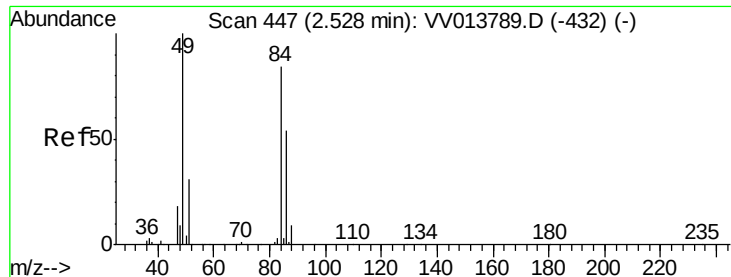


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

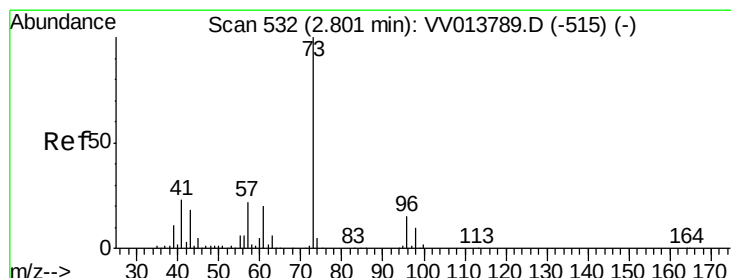
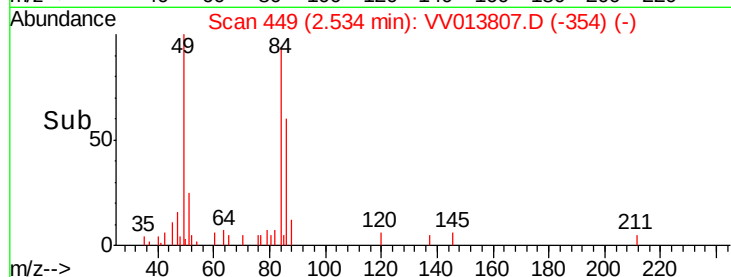
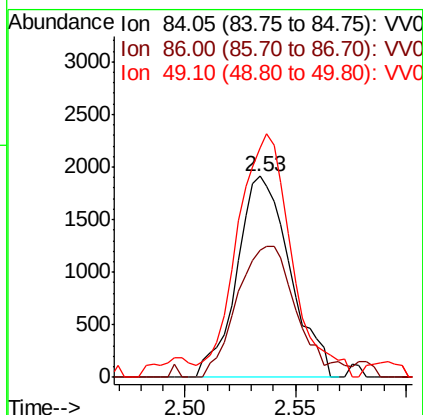
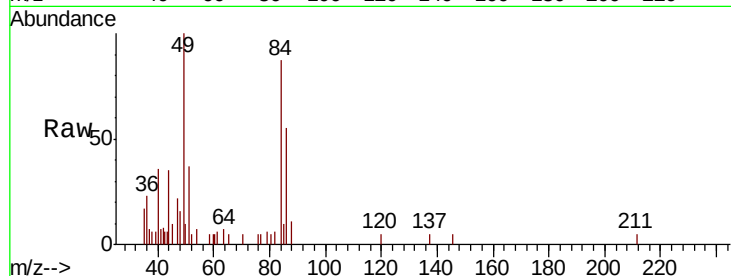




#16
Methylene chloride
Concen: 0.154 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.01 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

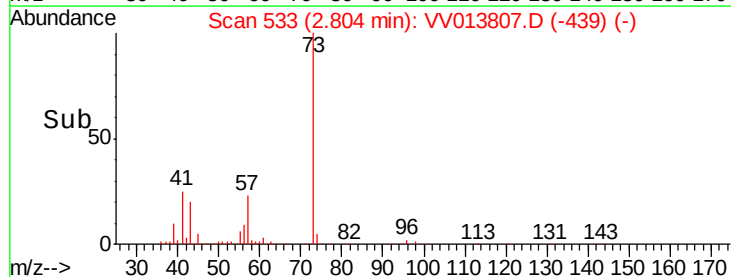
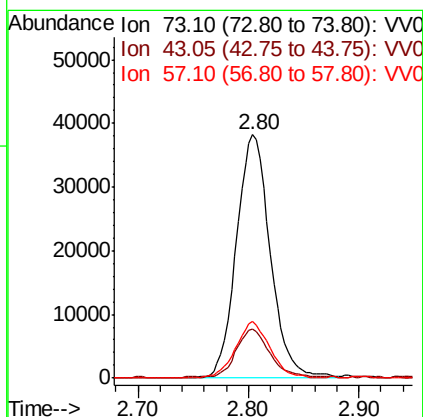
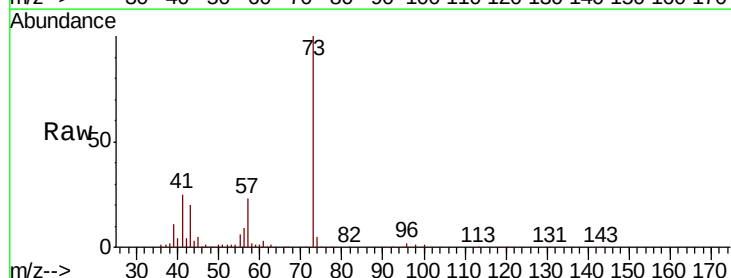
Instrument :
MSVOA_V
ClientSampleId :

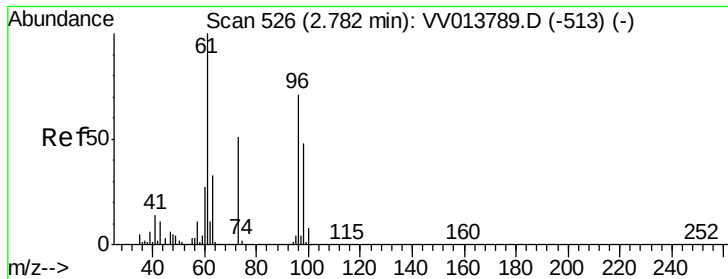
Tot Ion: 84 Resp: 3204
Ion Ratio Lower Upper
84 100
86 63.4 44.0 81.6
49 114.4 81.5 151.5



#17
Methyl tert-butyl Ether
Concen: 1.962 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Tgt Ion: 73 Resp: 81576
Ion Ratio Lower Upper
73 100
43 19.8 15.5 23.3
57 23.4 17.5 26.3

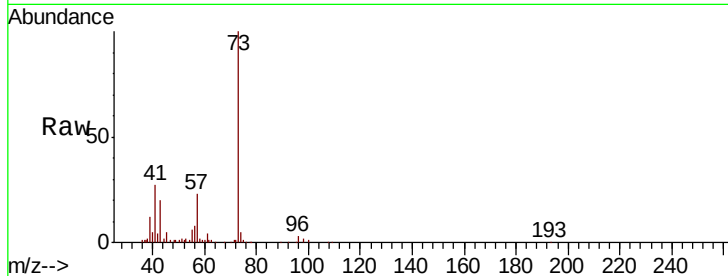




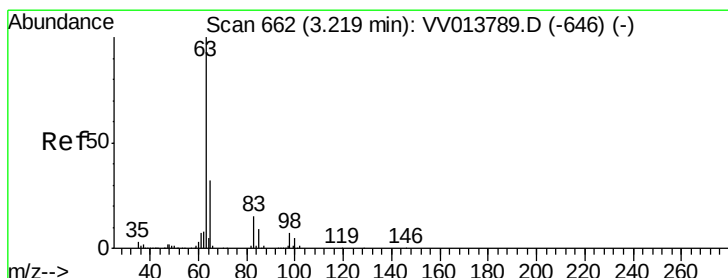
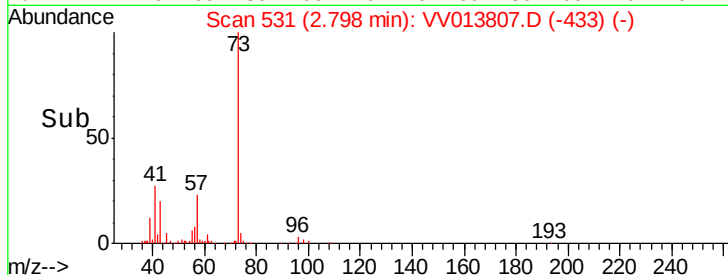
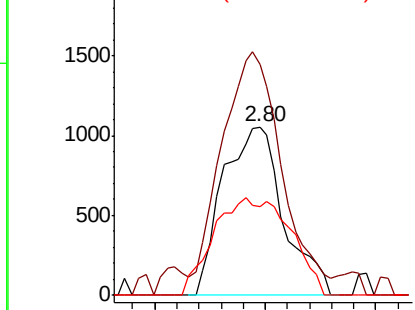
#18
trans-1,2-Dichloroethene
Concen: 0.117 ug/L
RT: 2.80 min Scan# 531
Delta R.T. 0.02 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 2010
Ion Ratio Lower Upper
96 100
61 137.2 95.1 176.7
98 52.8 46.5 86.3

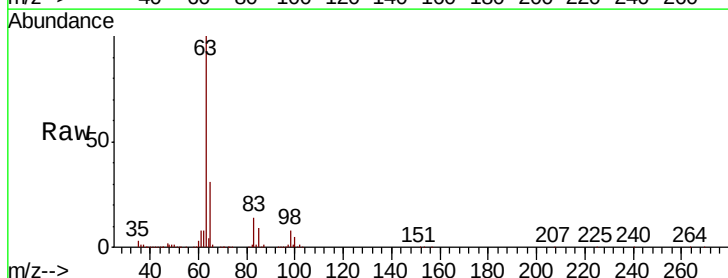


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

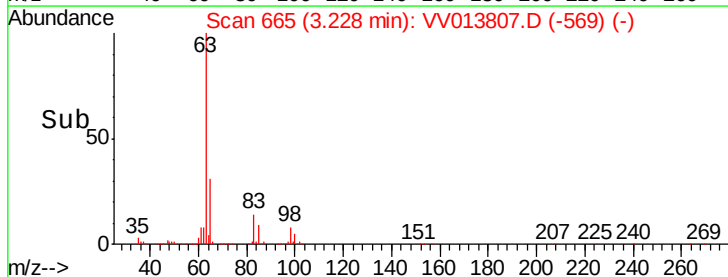
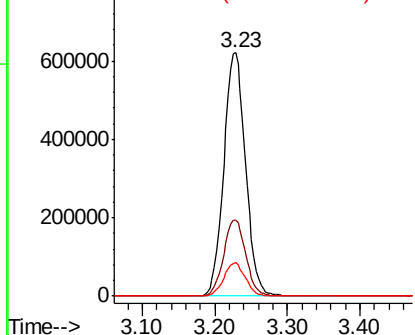


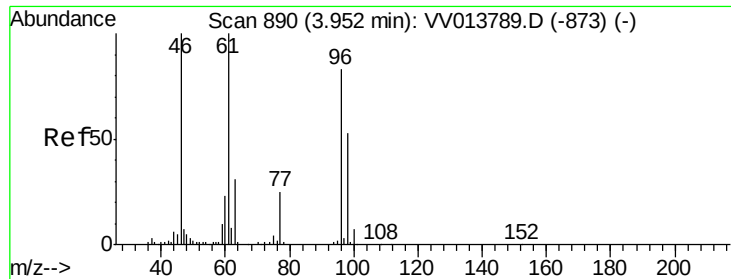
#19
1,1-Dichloroethane
Concen: 37.605 ug/L
RT: 3.23 min Scan# 665
Delta R.T. 0.01 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Tgt Ion: 63 Resp: 1287758
Ion Ratio Lower Upper
63 100
65 31.4 22.7 42.1
83 13.6 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



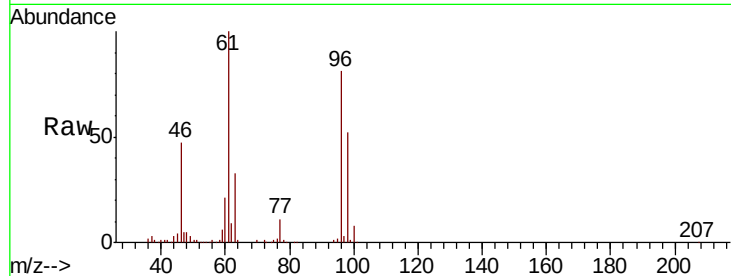


#22

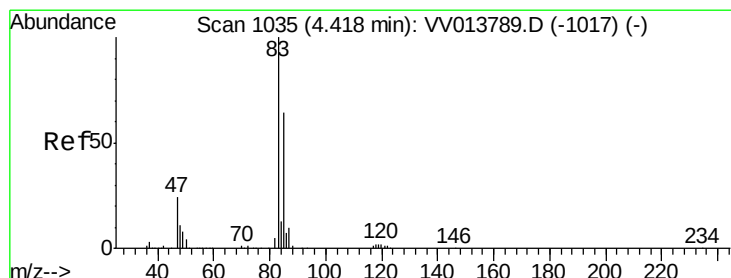
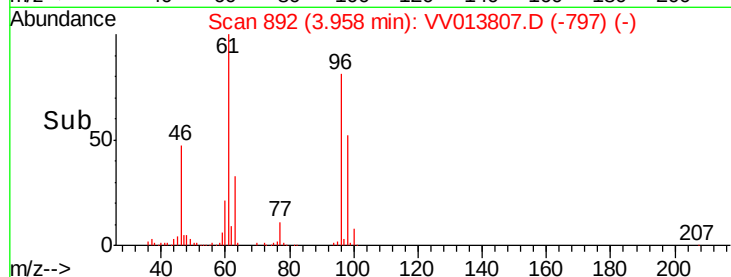
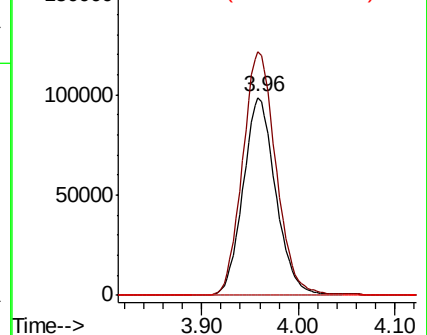
cis-1,2-Dichloroethene
Concen: 11.456 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.01 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 230440
Ion Ratio Lower Upper
96 100
61 123.1 86.1 159.9
68 0.0 0.0 0.0



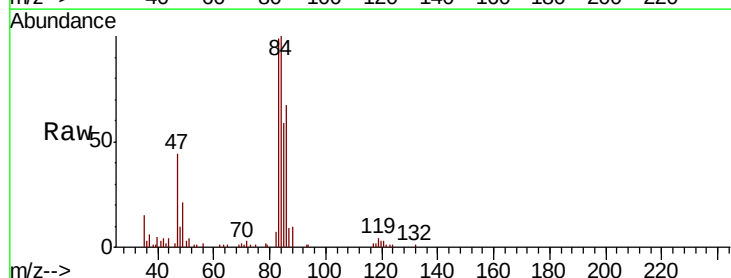
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



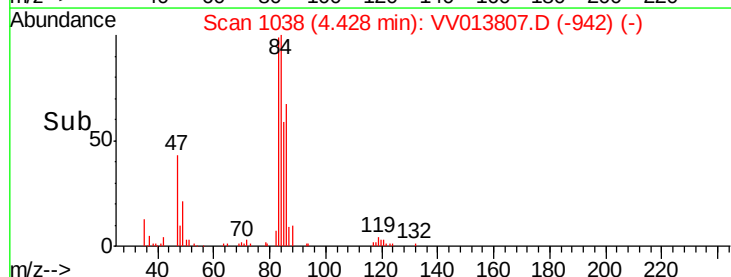
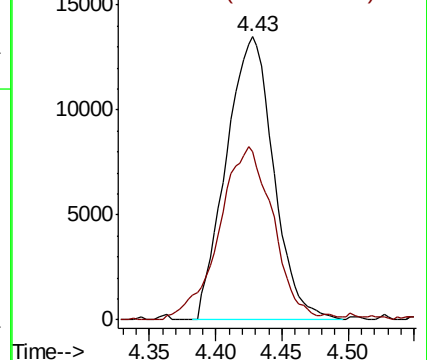
#25

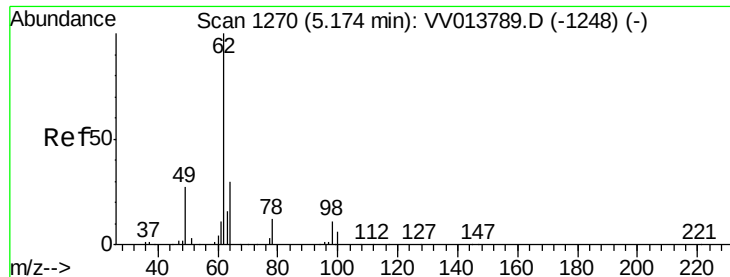
Chloroform
Concen: 0.923 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.01 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Tgt Ion: 83 Resp: 33497
Ion Ratio Lower Upper
83 100
85 59.6 45.1 83.7



Abundance Ion 83.05 (82.75 to 83.75): VV0
Ion 85.00 (84.70 to 85.70): VV0

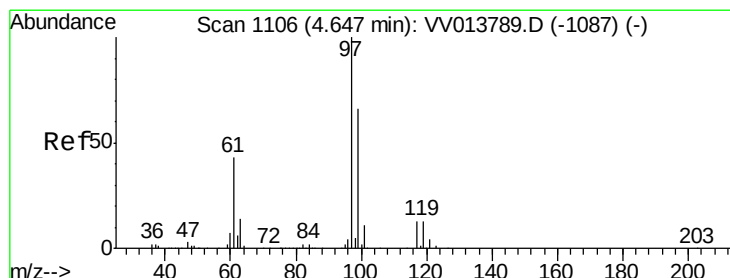
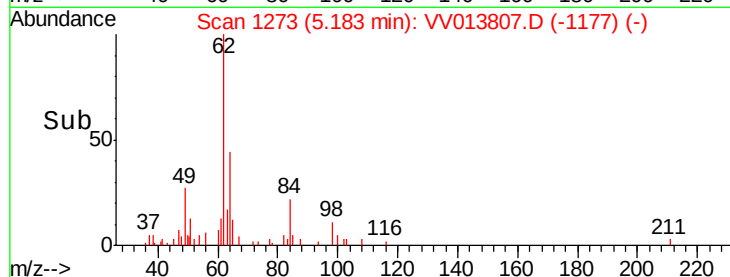
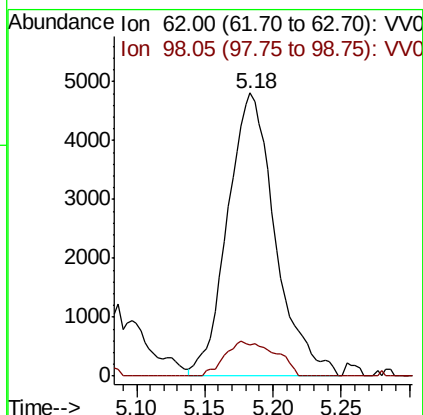
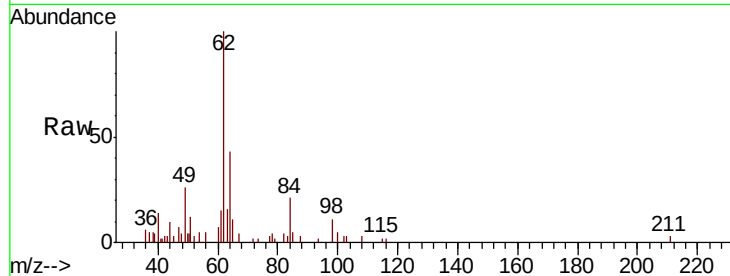




#27
 1,2-Dichloroethane
 Concen: 0.562 ug/L
 RT: 5.18 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: VV013807.D
 Acq: 26 Nov 2019 23:39

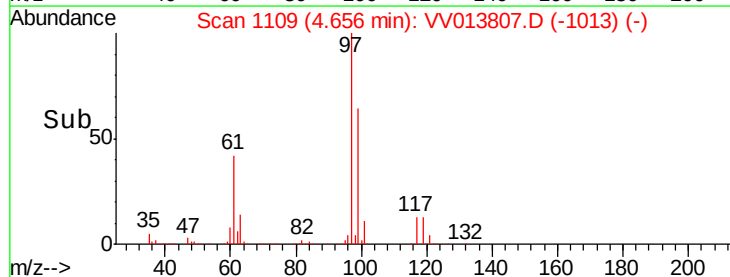
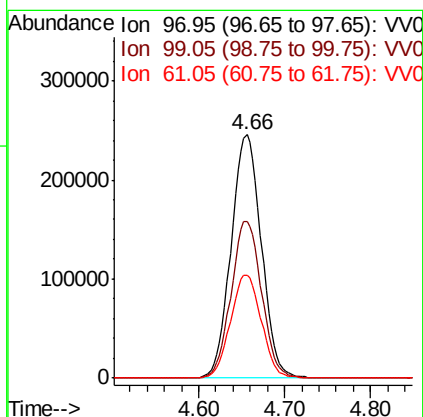
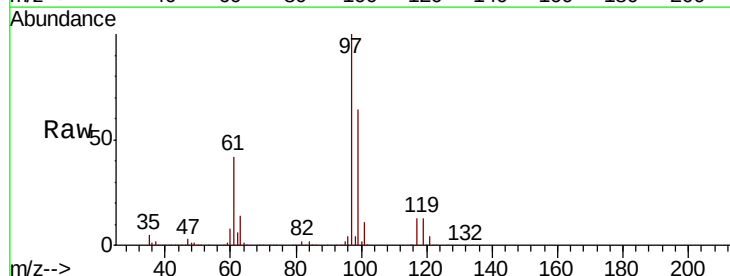
Instrument :
 MSVOA_V
 ClientSampled :

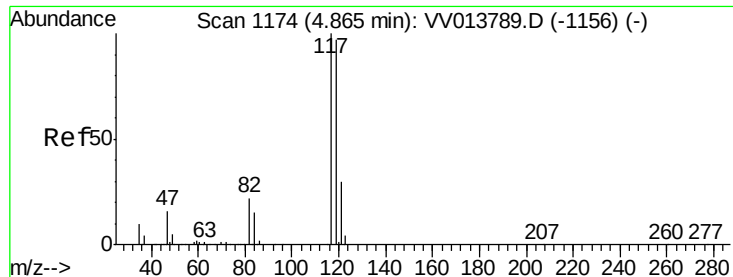
Tot Ion: 62 Resp: 11681
 Ion Ratio Lower Upper
 62 100
 98 11.1 8.2 12.2



#29
 1,1,1-Trichloroethane
 Concen: 18.492 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: VV013807.D
 Acq: 26 Nov 2019 23:39

Tgt Ion: 97 Resp: 600060
 Ion Ratio Lower Upper
 97 100
 99 65.1 51.7 77.5
 61 43.2 35.0 52.6





#31

Carbon tetrachloride

Concen: 2.745 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.21 min

Lab File: VV013807.D

Acq: 26 Nov 2019 23:39

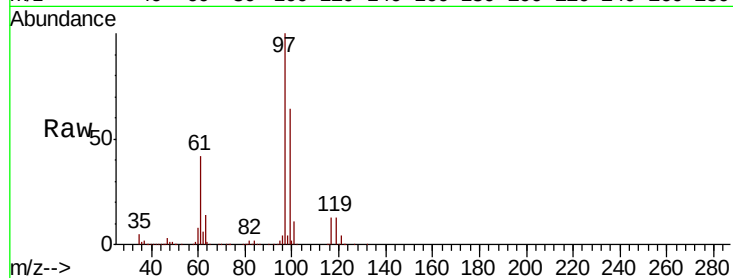
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 78354

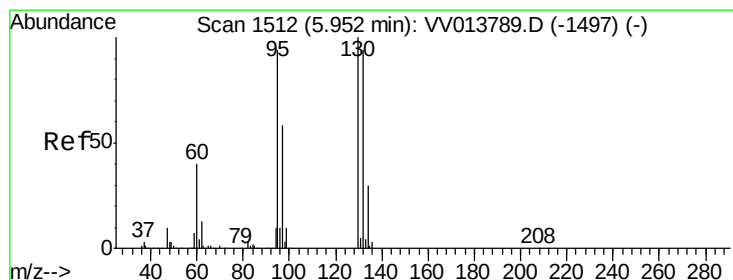
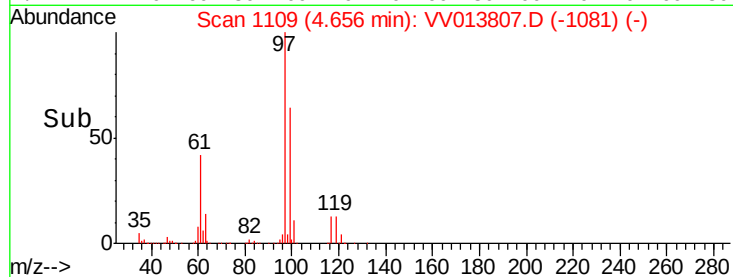
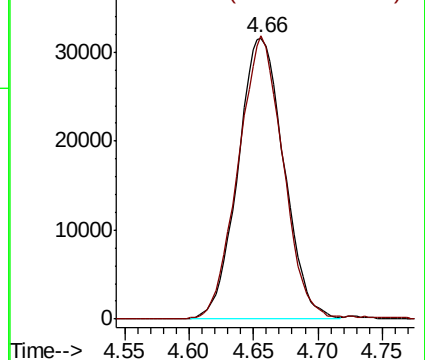
Ion Ratio Lower Upper

117 100

119 98.4 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: 92.781 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013807.D

Acq: 26 Nov 2019 23:39

Tgt Ion: 95 Resp: 1991586

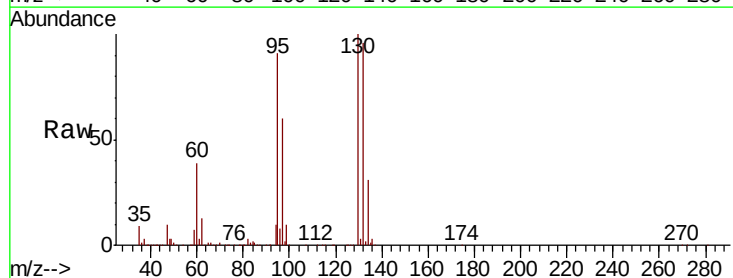
Ion Ratio Lower Upper

95 100

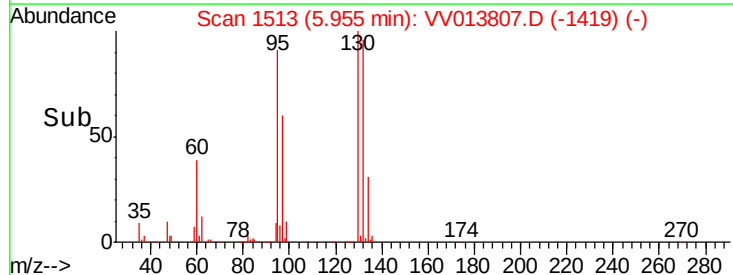
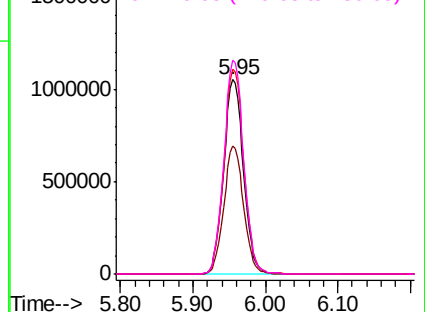
97 66.0 45.6 84.8

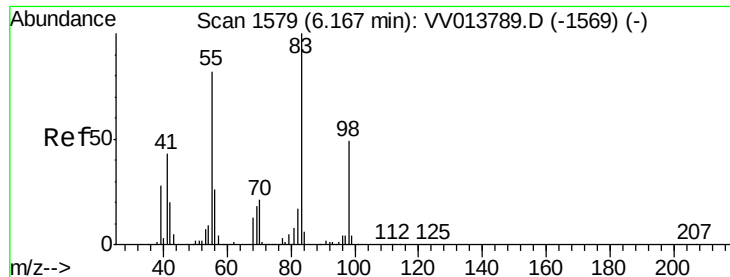
132 105.4 70.5 130.9

130 109.9 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

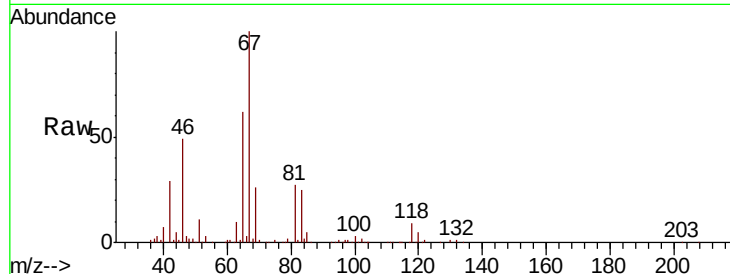




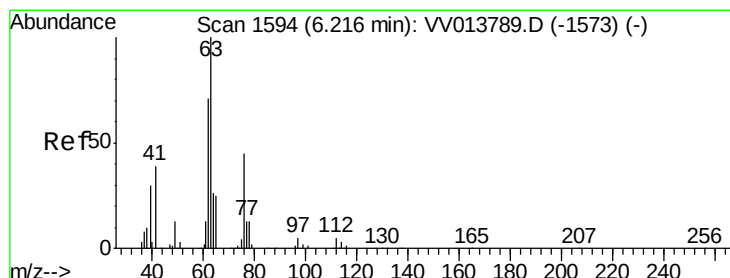
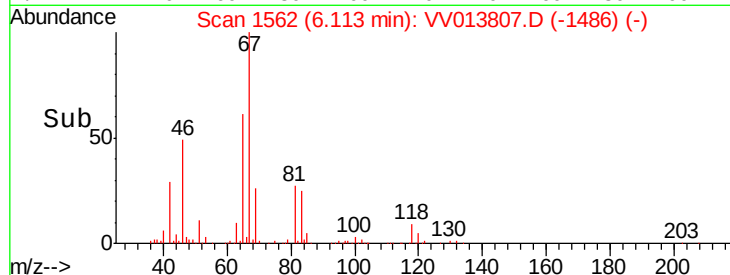
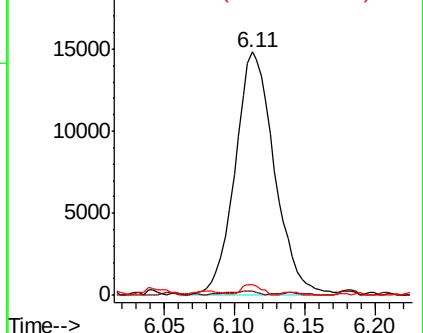
#35
Methvlcvclohexane
Concen: 1.015 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.05 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	83	Resp	29083
Ion Ratio	Lower	Upper	
83	100		
55	1.3	60.3	90.5#
98	0.0	38.1	57.1#

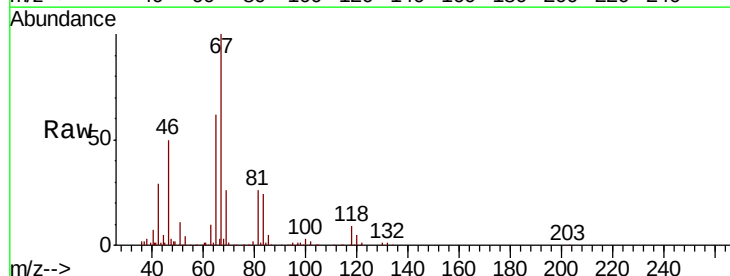


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

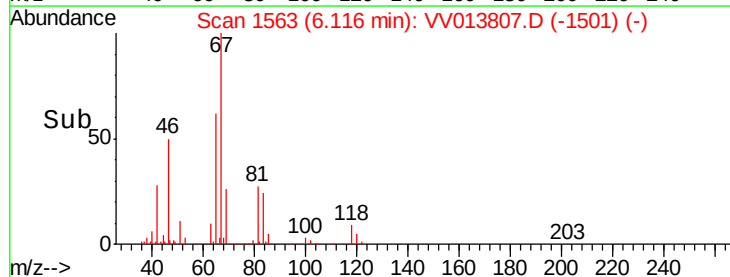
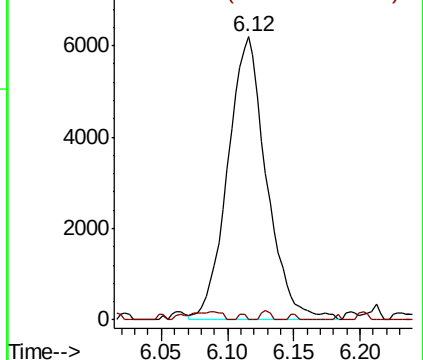


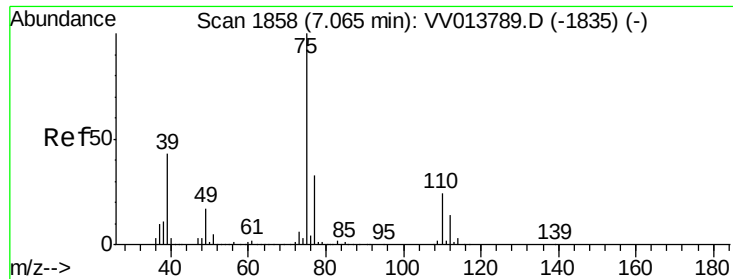
#37
1,2-Dichloropropane
Concen: 0.630 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Tgt Ion	63	Resp	12609
Ion Ratio	Lower	Upper	
63	100		
112	0.4	4.4	6.6#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V



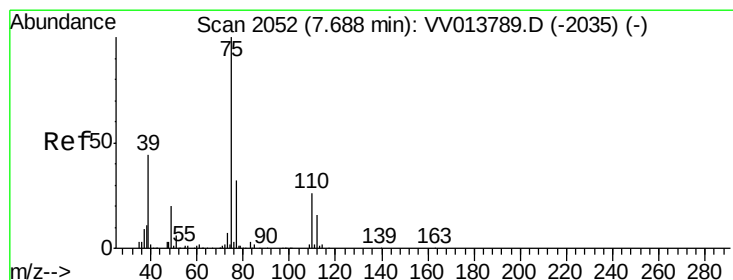
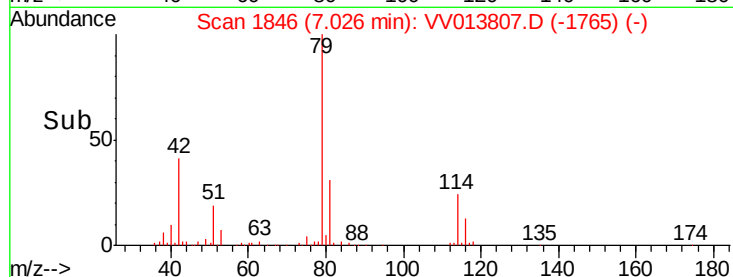
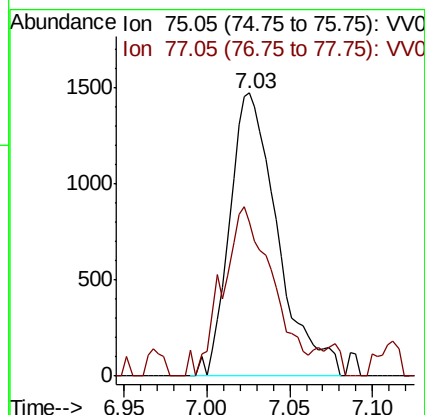
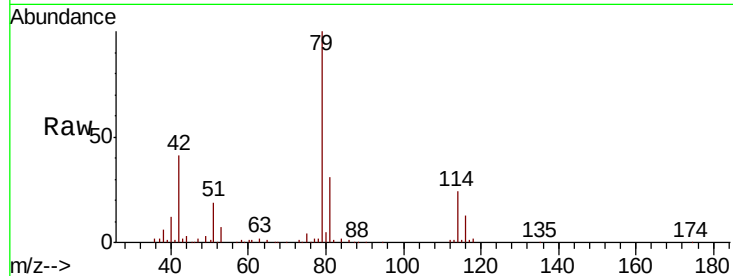


#39

cis-1,3-Dichloropropene
Concen: 0.104 ug/L
RT: 7.03 min Scan# 1846
Delta R.T. -0.04 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Instrument :
MSVOA_V
ClientSampleId :

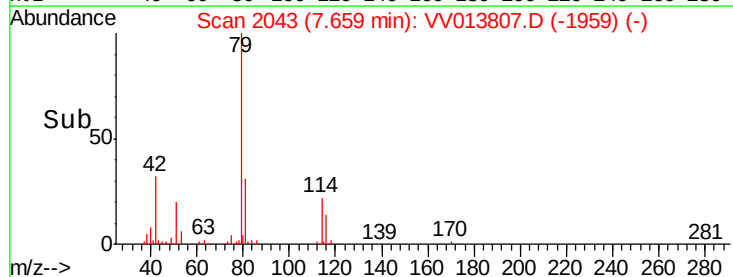
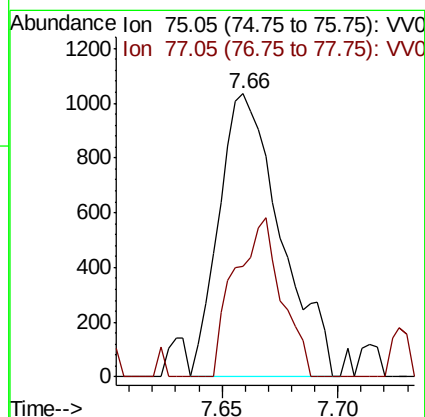
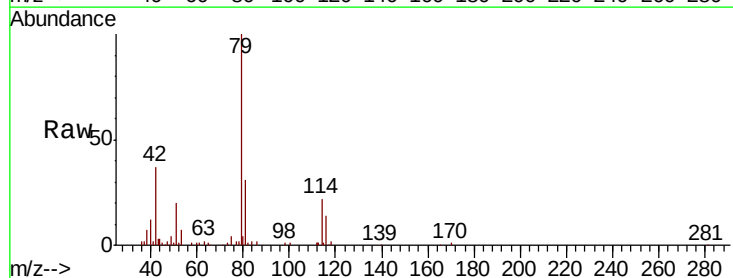
Tot Ion: 75 Resp: 2954
Ion Ratio Lower Upper
75 100
77 54.4 22.5 41.9#

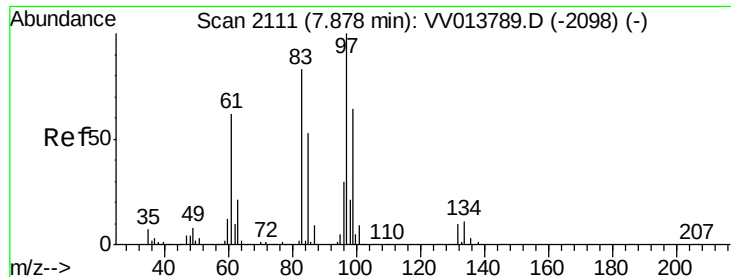


#44

trans-1,3-Dichloropropene
Concen: 0.086 ug/L
RT: 7.66 min Scan# 2043
Delta R.T. -0.03 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Tgt Ion: 75 Resp: 1912
Ion Ratio Lower Upper
75 100
77 39.1 23.0 42.8

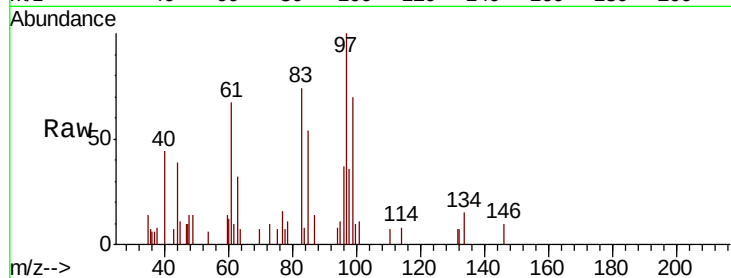




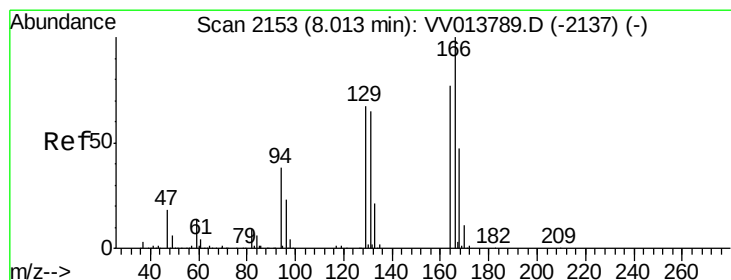
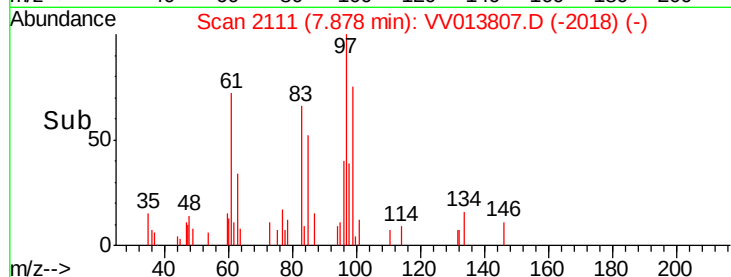
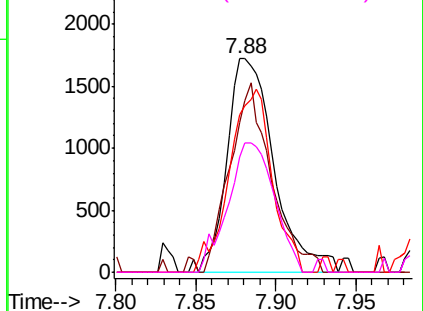
#45
1,1,2-Trichloroethane
Concen: 0.244 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:	97	Resp:	3477
Ion	Ratio	Lower	Upper
97	100		
99	70.2	44.2	82.0
83	74.0	59.7	110.9
85	54.2	38.3	71.1

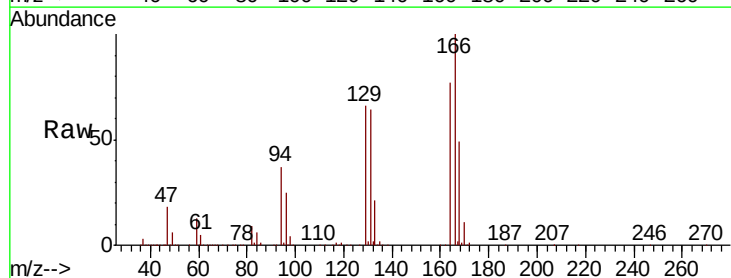


Abundance Ion 96.95 (96.65 to 97.65): VV013807.D (-2060) (-)
Ion 99.05 (98.75 to 99.75): VV013807.D (-2060) (-)
Ion 82.95 (82.65 to 83.65): VV013807.D (-2060) (-)
Ion 85.00 (84.70 to 85.70): VV013807.D (-2060) (-)

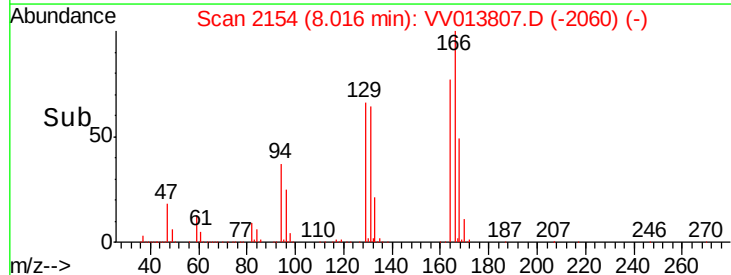
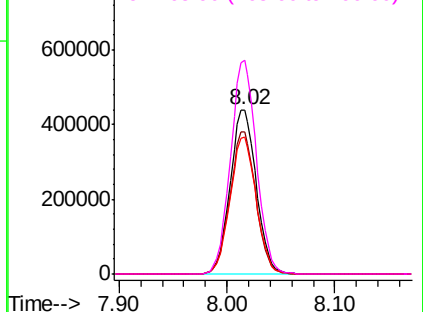


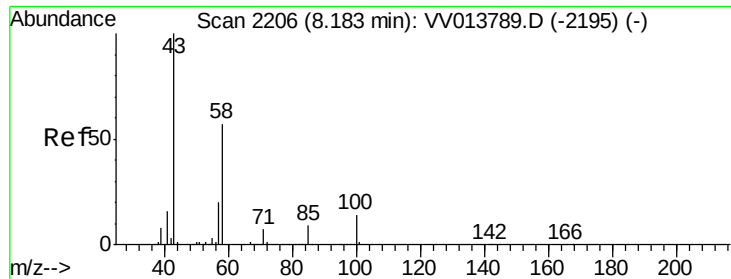
#47
Tetrachloroethene
Concen: 39.729 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Tgt Ion:	164	Resp:	740516
Ion	Ratio	Lower	Upper
164	100		
129	86.4	60.3	112.1
131	83.5	59.9	111.3
166	130.0	89.1	165.5



Abundance Ion 163.90 (163.60 to 164.60): VV013807.D (-2060) (-)
Ion 128.95 (128.65 to 129.65): VV013807.D (-2060) (-)
Ion 130.95 (130.65 to 131.65): VV013807.D (-2060) (-)
Ion 165.90 (165.60 to 166.60): VV013807.D (-2060) (-)

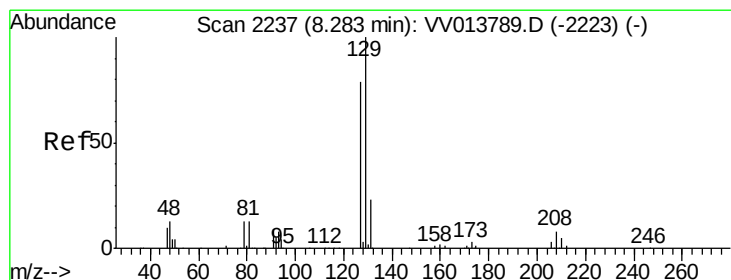
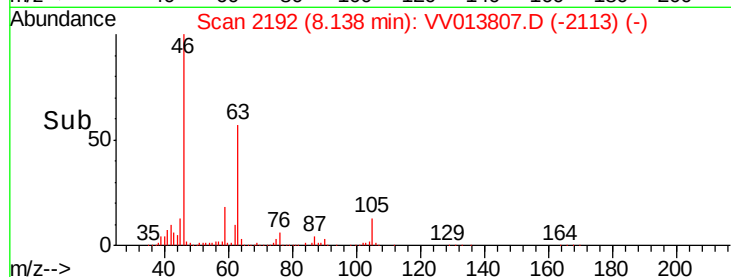
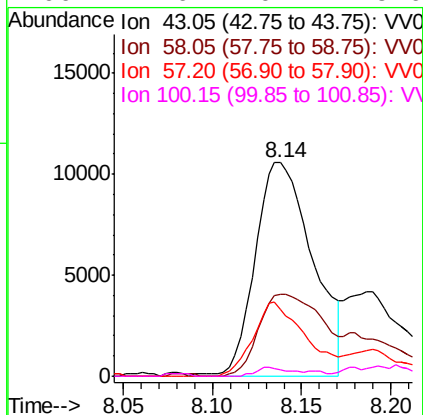
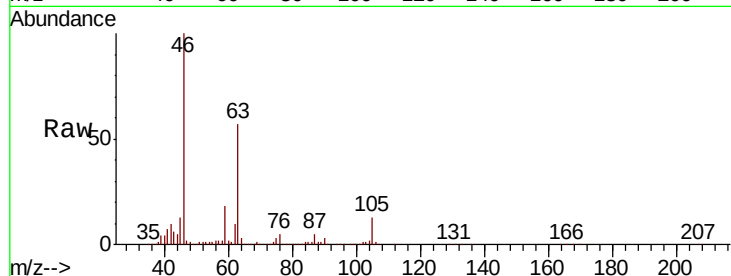




#48
2-Hexanone
Concen: 2.868 ug/L
RT: 8.14 min Scan# 2192
Delta R.T. -0.05 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

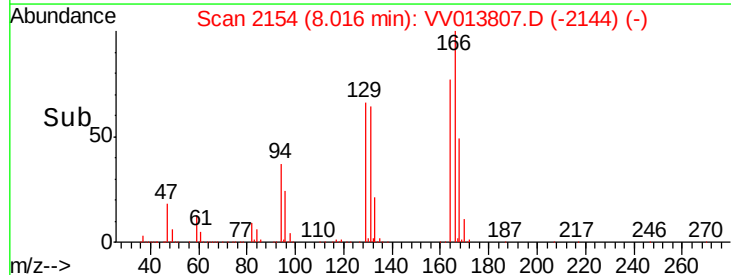
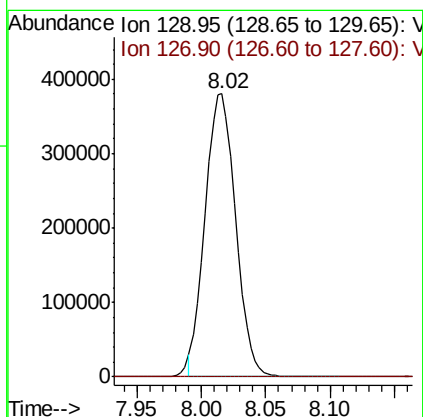
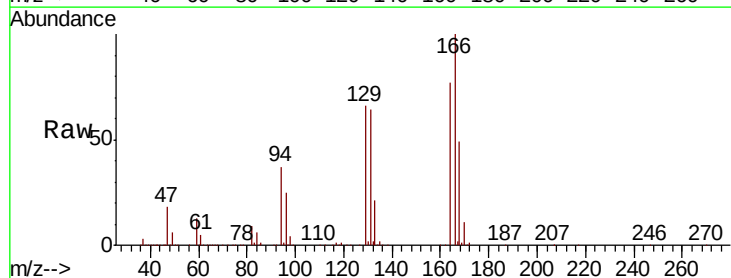
Instrument :
MSVOA_V
ClientSampleId :

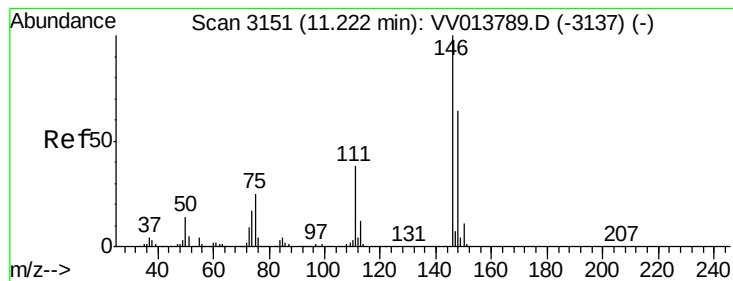
Tot Ion: 43 Resp: 23886
Ion Ratio Lower Upper
43 100
58 41.8 43.2 64.8#
57 31.4 15.4 23.2#
100 2.6 10.4 15.6#



#49
Dibromochloromethane
Concen: 34.102 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.27 min
Lab File: VV013807.D
Acq: 26 Nov 2019 23:39

Tgt Ion: 129 Resp: 623363
Ion Ratio Lower Upper
129 100
127 0.0 55.7 103.5#





#62

1,3-Dichlorobenzene

Concen: 0.099 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.01 min

Lab File: VV013807.D

Acq: 26 Nov 2019 23:39

Instrument :

MSVOA_V

ClientSampleId :

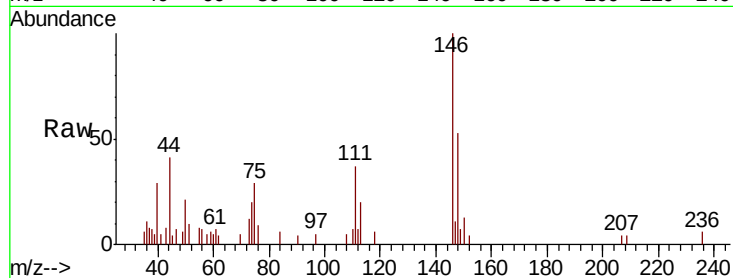
Tot Ion:146 Resp: 4035

Ion Ratio Lower Upper

146 100

111 37.2 25.6 47.6

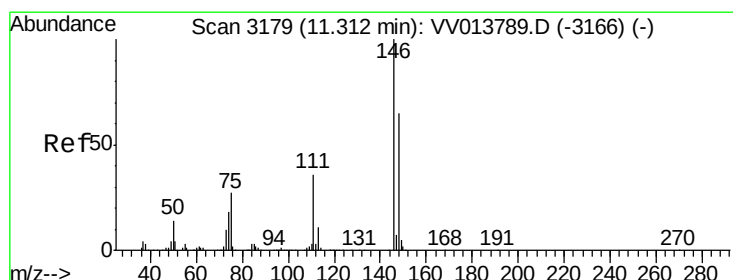
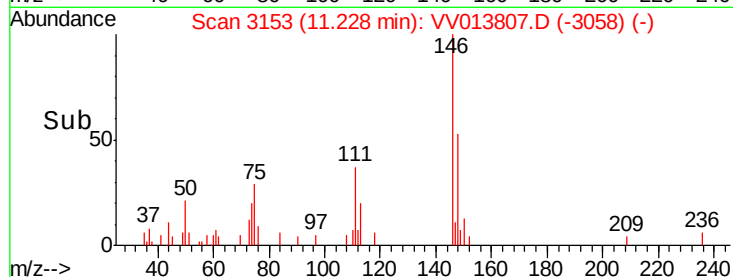
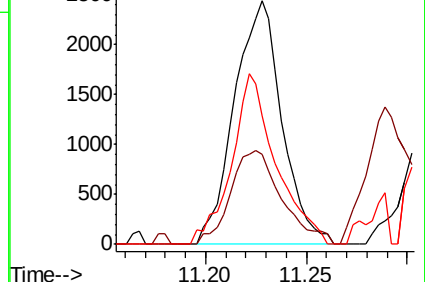
148 52.7 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.064 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.01 min

Lab File: VV013807.D

Acq: 26 Nov 2019 23:39

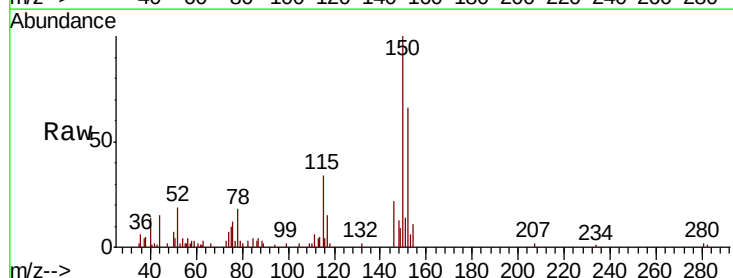
Tgt Ion:146 Resp: 2646

Ion Ratio Lower Upper

146 100

111 29.8 25.0 46.4

148 57.9 45.4 84.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

