

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112719\
 Data File : VV013828.D
 Acq On : 27 Nov 2019 17:30
 Operator : SY/MD
 Sample : K6056-07DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 28 02:58:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 28 02:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	314699	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	312646	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	145669	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	71397	3.67	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.40%
7) Chloroethane-d5	1.58	69	73043	4.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.40%
11) 1,1-Dichloroethene-d2	2.13	63	171181	5.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	104.40%
20) 2-Butanone-d5	3.93	46	254570	62.87	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	125.74%
24) Chloroform-d	4.40	84	183590	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.08	65	95125	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
32) Benzene-d6	5.10	84	337104	4.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.60%
36) 1,2-Dichloropropane-d6	6.11	67	105998	4.41	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.20%
41) Toluene-d8	7.36	98	266663	3.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.40%
43) trans-1,3-Dichloropropene-	7.66	79	37468	4.00	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.00%
46) 2-Hexanone-d5	8.13	63	187998	54.47	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.94%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	88750	5.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	126339	4.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.20%

Target Compounds

					Ovalue
3) Chloromethane	1.20	50	37562	2.041 ug/L #	44
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	17278	0.996 ug/L	99
12) 1,1-Dichloroethene	2.14	96	136471	9.020 ug/L #	73
13) Acetone	2.19	43	6587	2.326 ug/L #	31
14) Carbon disulfide	2.32	76	2073	0.059 ug/L #	74
16) Methylene chloride	2.53	84	2305	0.111 ug/L	99
17) Methyl tert-butyl Ether	2.80	73	8347	0.202 ug/L #	85
19) 1,1-Dichloroethane	3.23	63	122545	3.593 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	21263	1.061 ug/L	98
27) 1,2-Dichloroethane	5.19	62	1529	0.074 ug/L #	72
29) 1,1,1-Trichloroethane	4.66	97	54997	1.720 ug/L	98
31) Carbon tetrachloride	4.66	117	7736	0.275 ug/L	99
34) Trichloroethene	5.96	95	183843	8.690 ug/L	98
35) Methylcyclohexane	6.11	83	27431	0.972 ug/L #	21
37) 1,2-Dichloropropane	6.12	63	12640	0.641 ug/L #	85
47) Tetrachloroethene	8.02	164	71740	3.905 ug/L	96
48) 2-Hexanone	8.13	43	22100	2.692 ug/L #	79

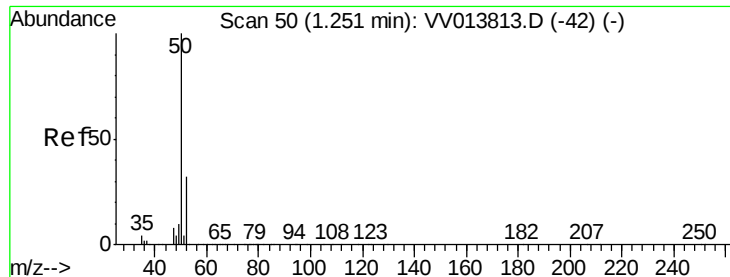
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112719\
Data File : VV013828.D
Acq On : 27 Nov 2019 17:30
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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 28 02:51:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
49) Dibromochloromethane	8.01	129	57659	3.200	ug/L #	10
-----	-----	-----	-----	-----	-----	-----

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



#3

Chloromethane

Concen: 2.041 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.05 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

Instrument :

MSVOA_V

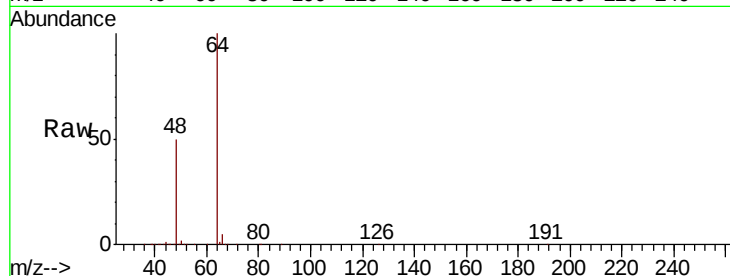
ClientSampleId :

Tot Ion: 50 Resp: 37562

Ion Ratio Lower Upper

50 100

52 0.7 22.5 41.7#



Abundance Ion 50.05 (49.75 to 50.75): VV013813.D (-42) (-)

Ion 52.05 (51.75 to 52.75): VV013813.D (-42) (-)

1.20

30000

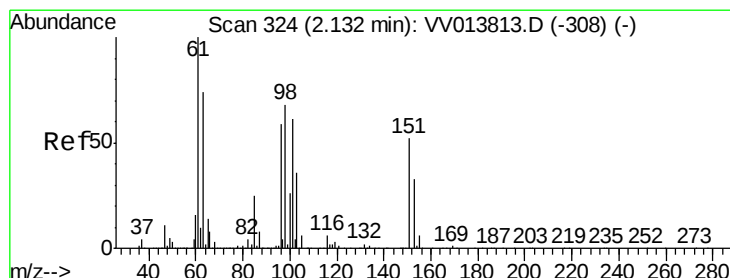
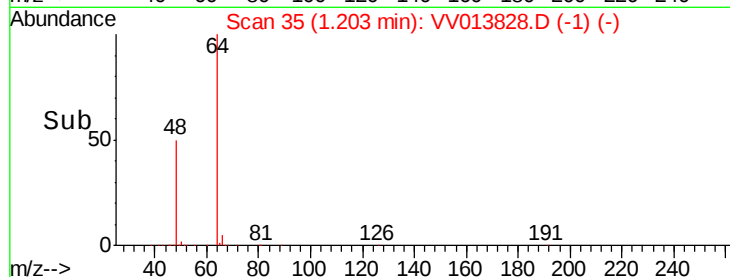
20000

10000

0

Time-->

1.15 1.20 1.25



#10

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

Concen: 0.996 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

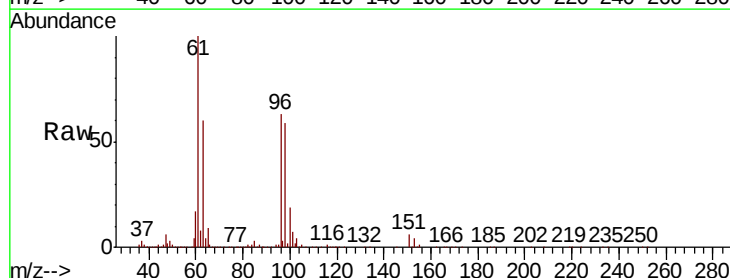
Tgt Ion: 101 Resp: 17278

Ion Ratio Lower Upper

101 100

85 41.3 33.4 50.0

151 85.3 69.4 104.0



Abundance Ion 101.00 (100.70 to 101.70): VV013813.D (-308) (-)

Ion 85.00 (84.70 to 85.70): VV013813.D (-308) (-)

Ion 151.00 (150.70 to 151.70): VV013813.D (-308) (-)

2.14

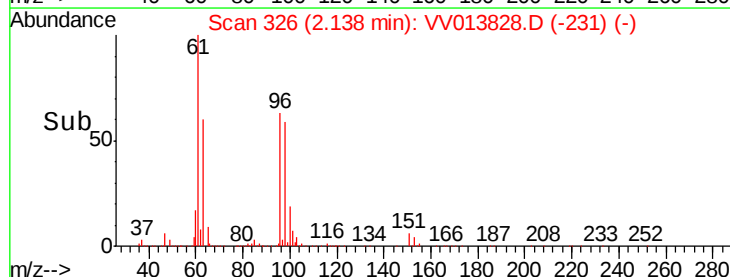
10000

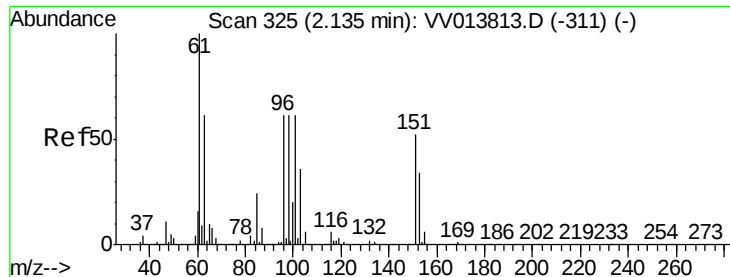
5000

0

Time-->

2.10 2.15 2.20





#12

1,1-Dichloroethene

Concen: 9.020 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.01 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

Instrument :
MSVOA_V
ClientSampleId :

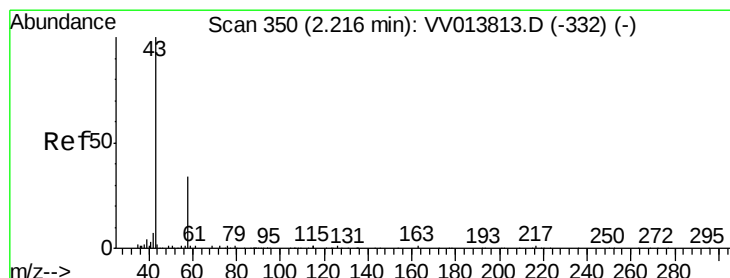
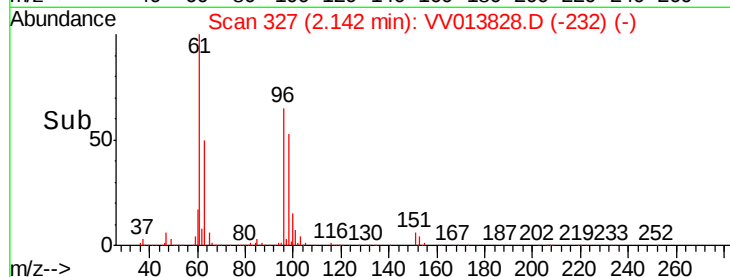
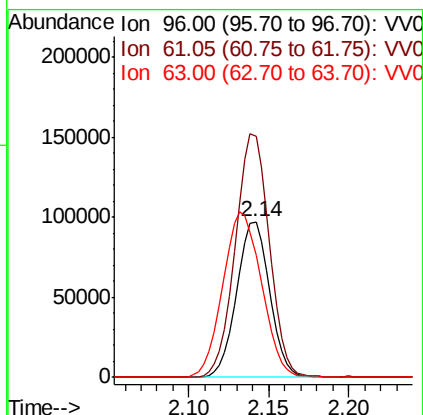
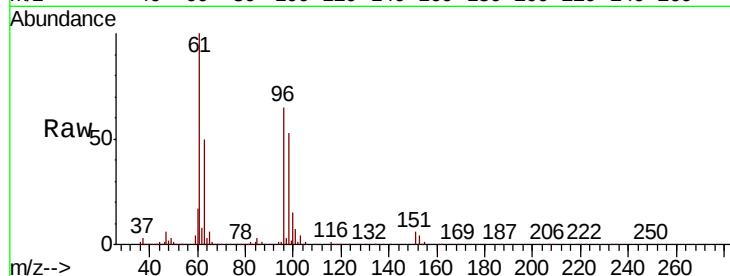
Tot Ion: 96 Resp: 136471

Ion Ratio Lower Upper

96 100

61 154.8 116.3 215.9

63 78.1 96.7 179.7#



#13

Acetone

Concen: 2.326 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.02 min

Lab File: VV013828.D

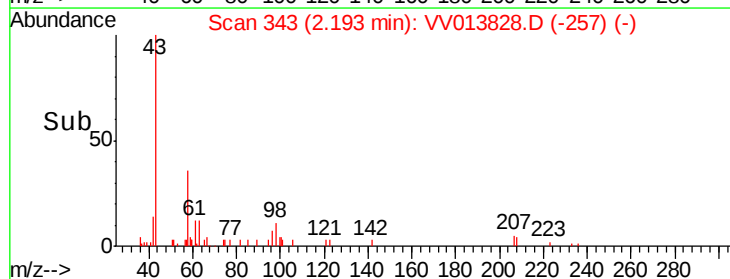
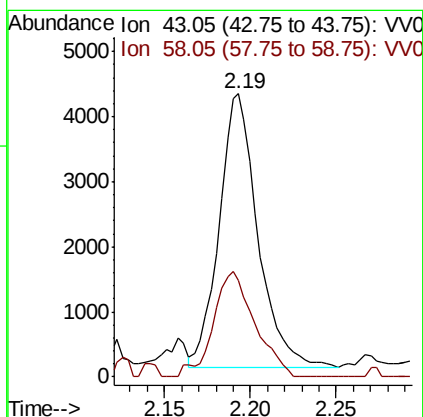
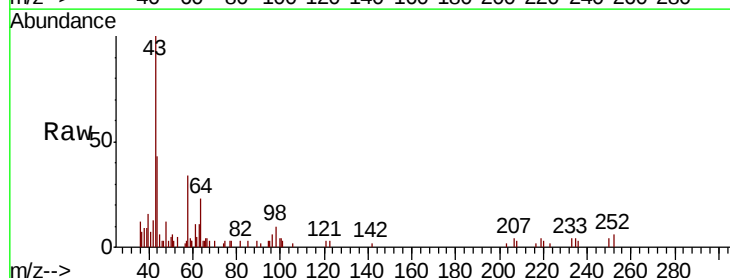
Acq: 27 Nov 2019 17:30

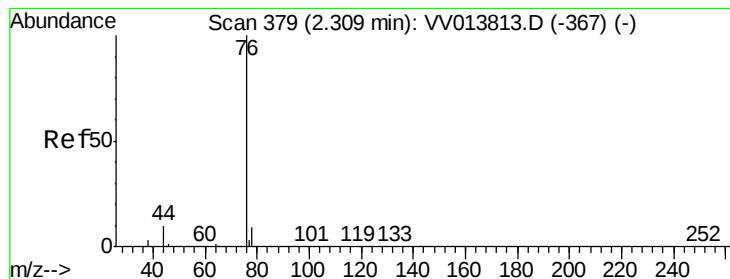
Tgt Ion: 43 Resp: 6587

Ion Ratio Lower Upper

43 100

58 41.3 0.0 27.2#





#14

Carbon disulfide

Concen: 0.059 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

Instrument :

MSVOA_V

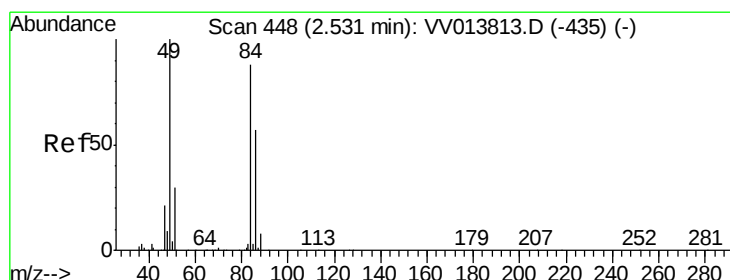
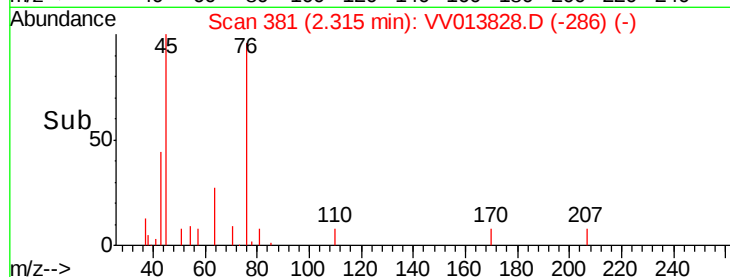
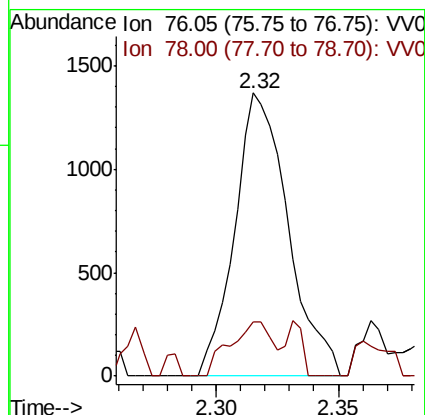
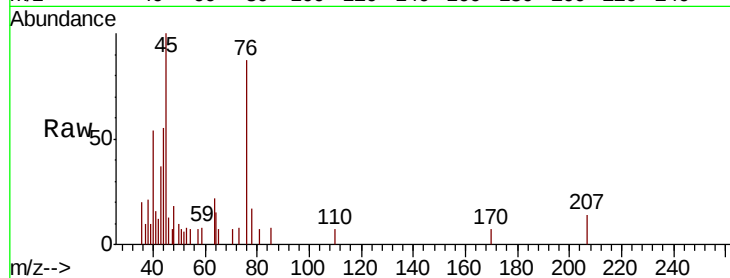
ClientSampleId :

Tot Ion: 76 Resp: 2073

Ion Ratio Lower Upper

76 100

78 19.0 7.5 11.3#



#16

Methylene chloride

Concen: 0.111 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

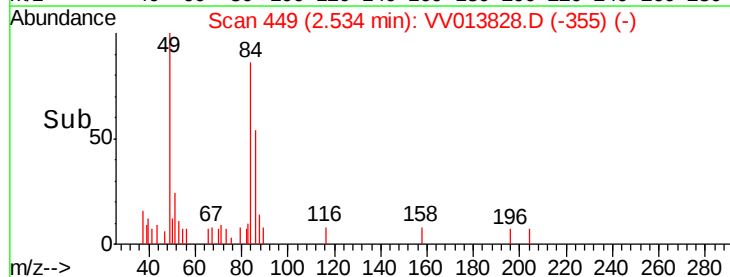
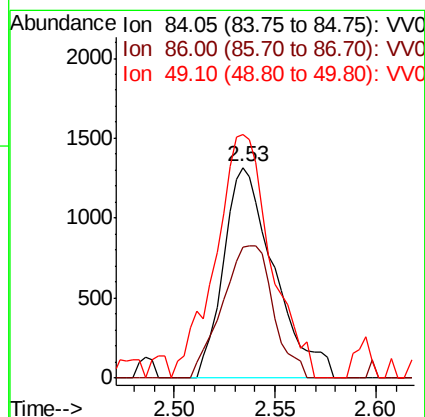
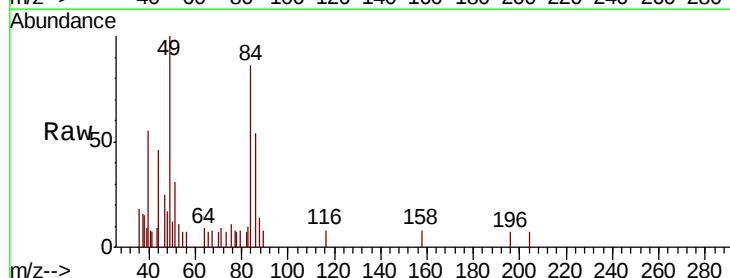
Tgt Ion: 84 Resp: 2305

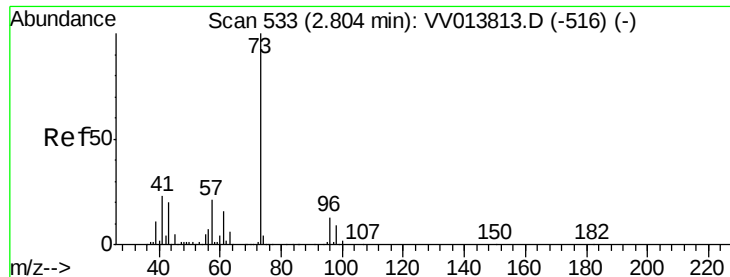
Ion Ratio Lower Upper

84 100

86 62.2 44.0 81.6

49 115.7 81.5 151.5





#17

Methvl tert-butvl Ether

Concen: 0.202 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

Instrument :

MSVOA_V

ClientSampleId :

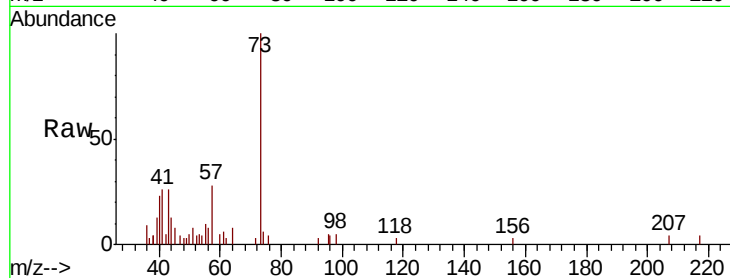
Tot Ion: 73 Resp: 8347

Ion Ratio Lower Upper

73 100

43 26.4 15.5 23.3#

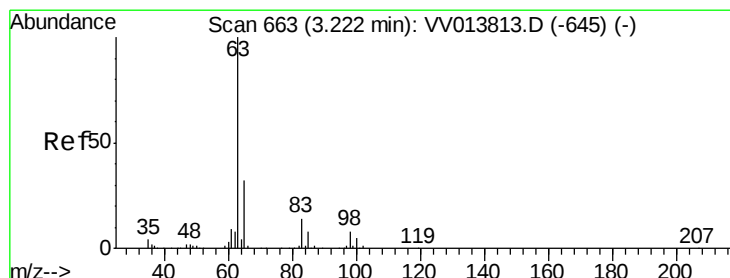
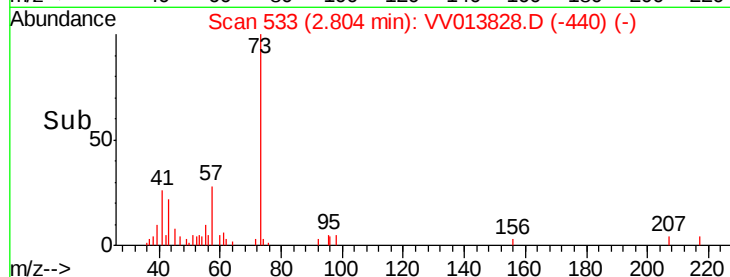
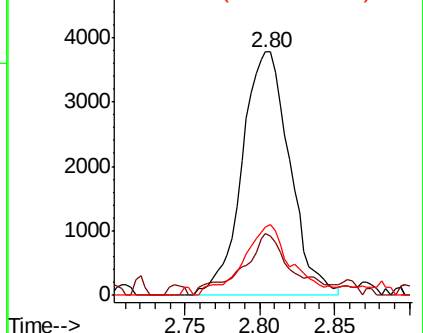
57 29.2 17.5 26.3#



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



#19

1,1-Dichloroethane

Concen: 3.593 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.01 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

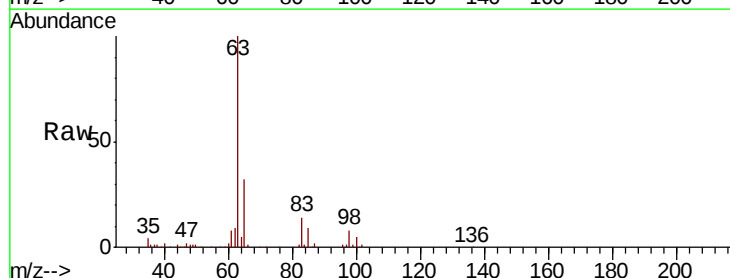
Tgt Ion: 63 Resp: 122545

Ion Ratio Lower Upper

63 100

65 32.5 22.7 42.1

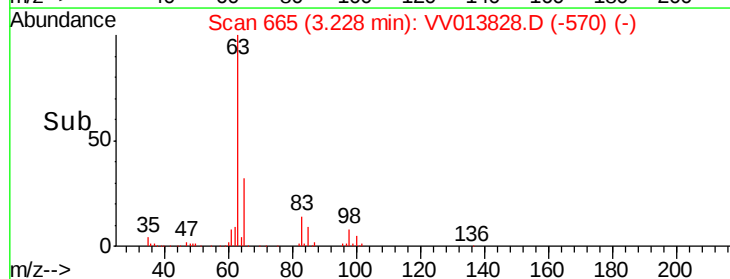
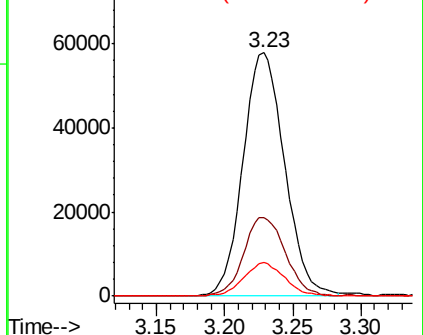
83 13.6 9.2 17.2

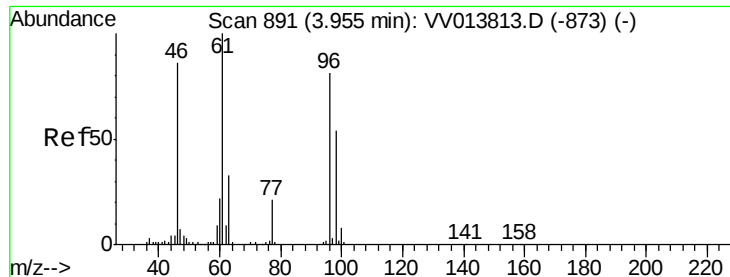


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



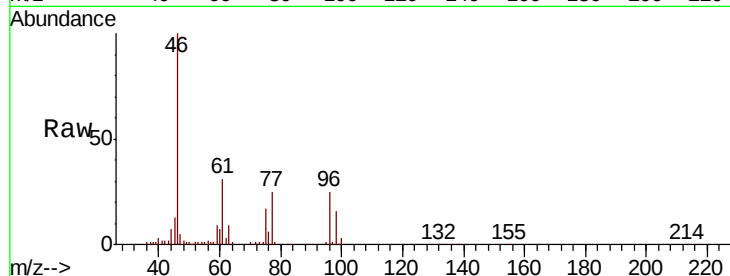


#22

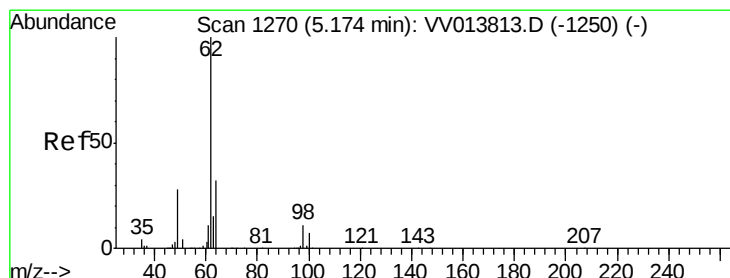
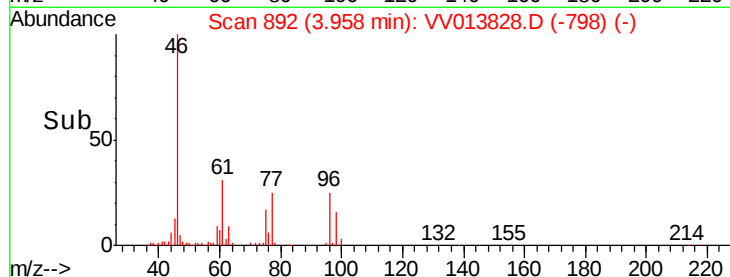
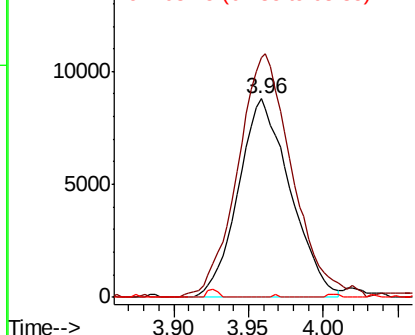
cis-1,2-Dichloroethene
 Concen: 1.061 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013828.D
 Acq: 27 Nov 2019 17:30

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 21263
 Ion Ratio Lower Upper
 96 100
 61 120.8 86.1 159.9
 68 0.0 0.0 0.0



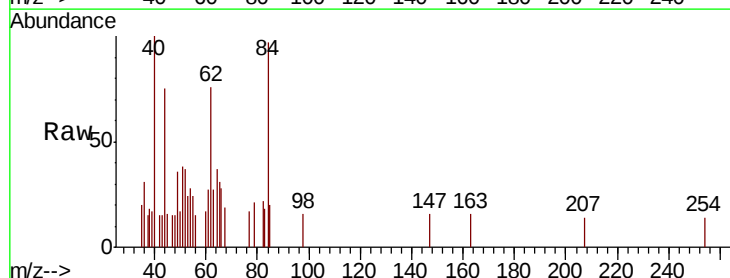
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



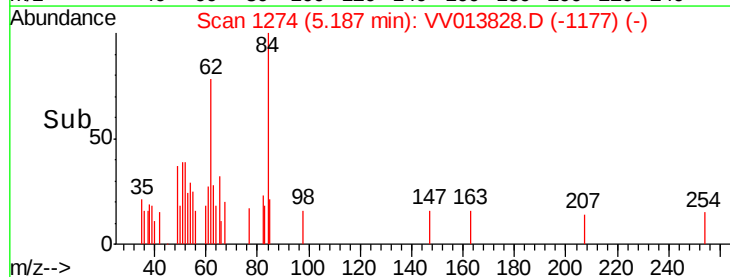
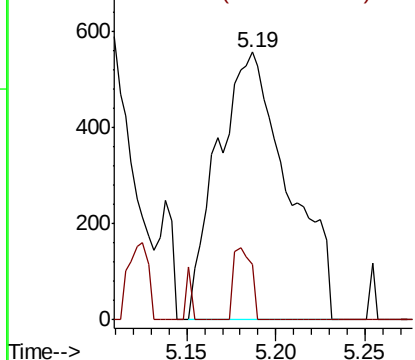
#27

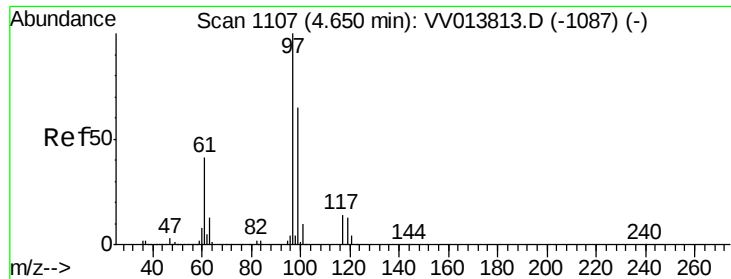
1,2-Dichloroethane
 Concen: 0.074 ug/L
 RT: 5.19 min Scan# 1274
 Delta R.T. 0.01 min
 Lab File: VV013828.D
 Acq: 27 Nov 2019 17:30

Tgt Ion: 62 Resp: 1529
 Ion Ratio Lower Upper
 62 100
 98 20.7 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VV0
 Ion 98.05 (97.75 to 98.75): VV0

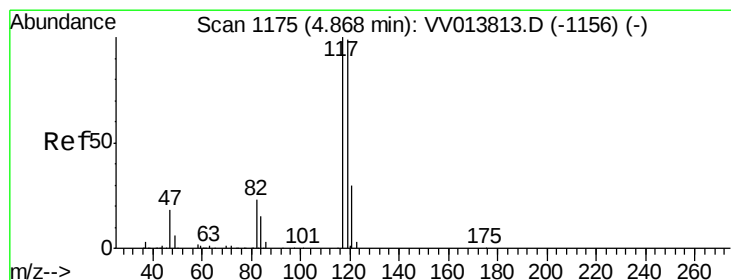
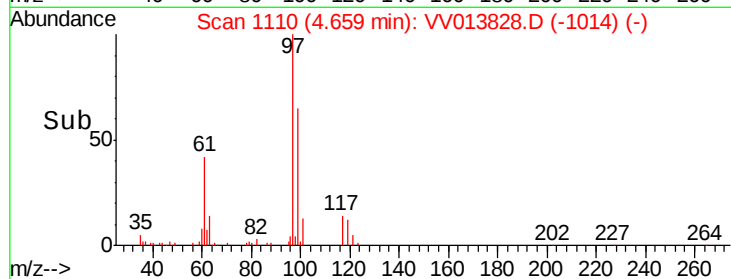
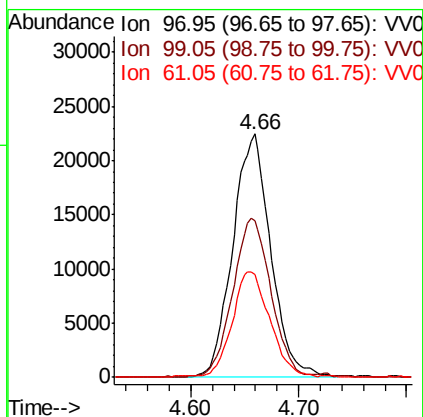
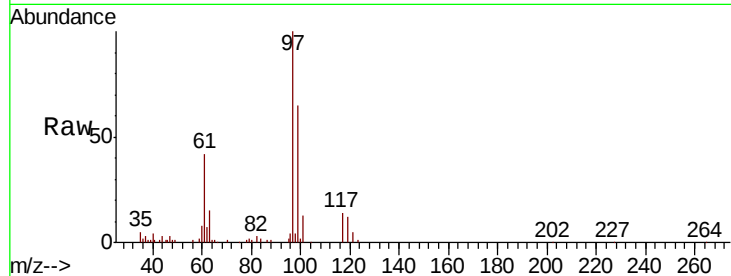




#29
 1,1,1-Trichloroethane
 Concen: 1.720 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. 0.01 min
 Lab File: VV013828.D
 Acq: 27 Nov 2019 17:30

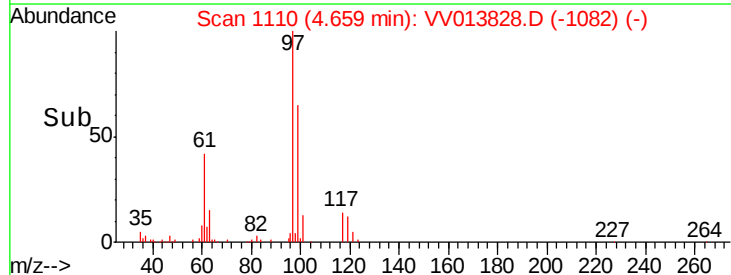
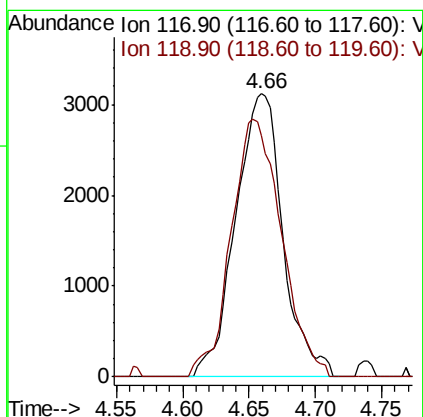
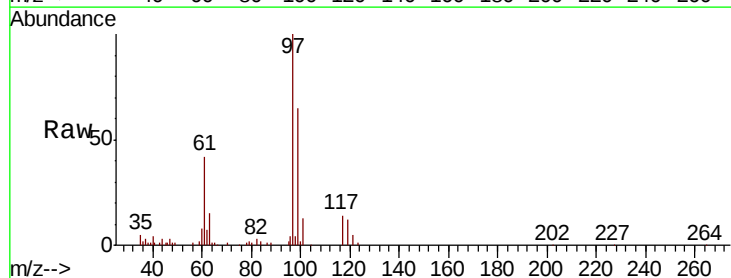
Instrument :
 MSVOA_V
 ClientSampleId :

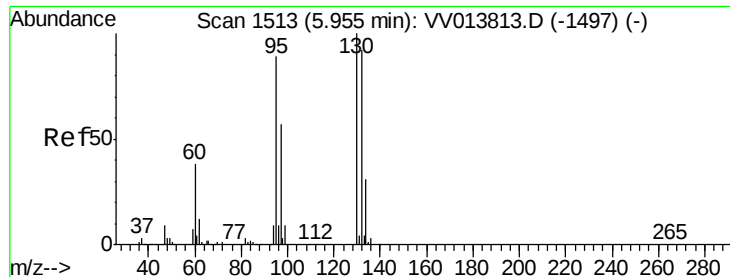
Tot Ion	97	Resp	54997
Ion Ratio	Lower	Upper	
97	100		
99	66.0	51.7	77.5
61	43.0	35.0	52.6



#31
 Carbon tetrachloride
 Concen: 0.275 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. -0.21 min
 Lab File: VV013828.D
 Acq: 27 Nov 2019 17:30

Tgt Ion	117	Resp	7736
Ion Ratio	Lower	Upper	
117	100		
119	97.0	76.8	115.2





#34

Trichloroethene

Concen: 8.690 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 183843

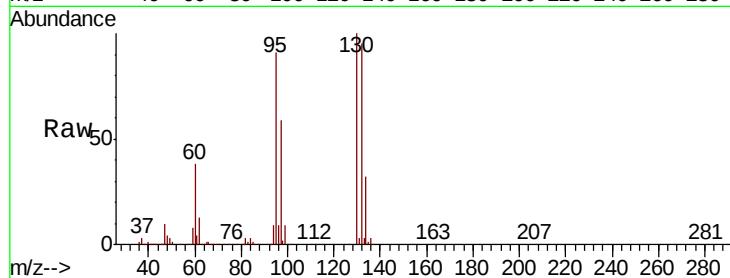
Ion Ratio Lower Upper

95 100

97 65.4 45.6 84.8

132 104.9 70.5 130.9

130 110.1 75.9 140.9

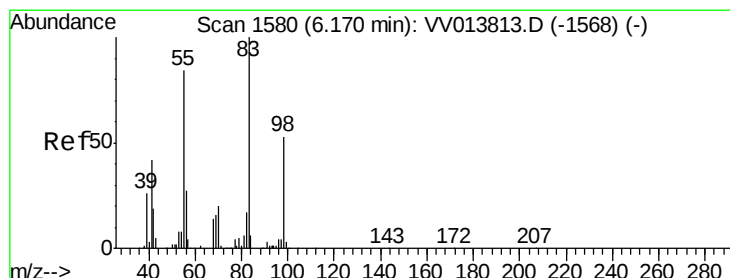
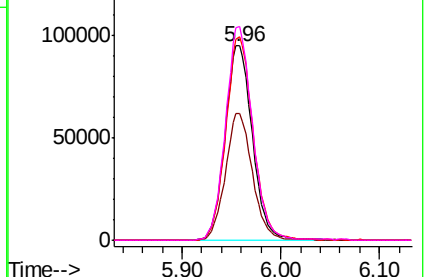
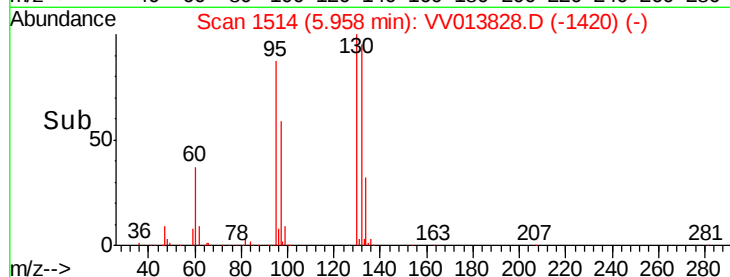


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 0.972 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.06 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

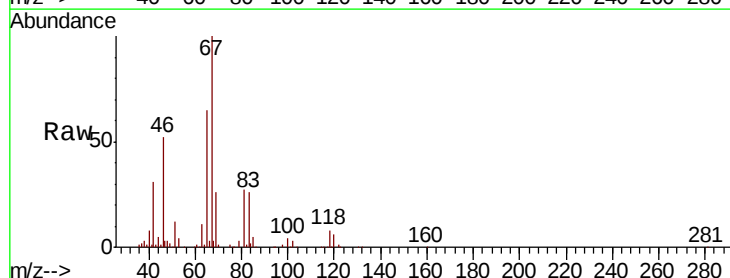
Tgt Ion: 83 Resp: 27431

Ion Ratio Lower Upper

83 100

55 1.1 60.3 90.5#

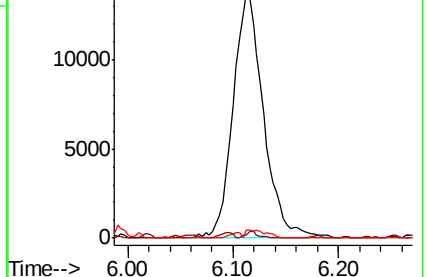
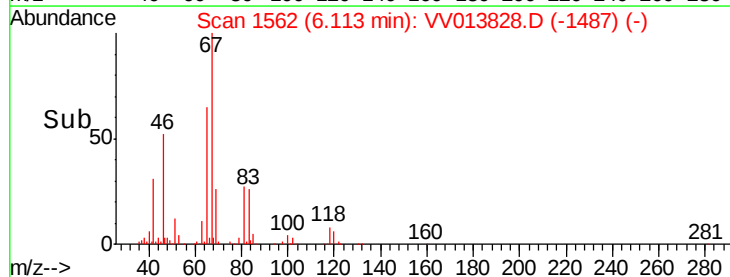
98 2.3 38.1 57.1#

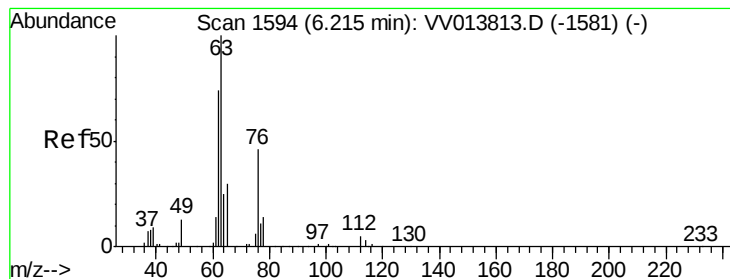


Abundance Ion 83.15 (82.85 to 83.85): VV0

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: 6.12 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

Instrument :

MSVOA_V

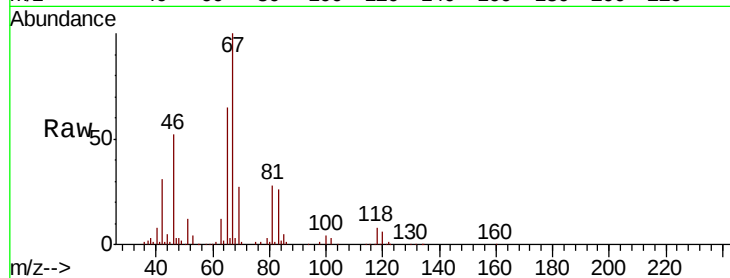
ClientSampleId :

Tot Ion: 63 Resp: 12640

Ion Ratio Lower Upper

63 100

112 0.3 4.4 6.6#



Abundance Ion 63.10 (62.80 to 63.80): VV013813.D (-1581) (-)

Ion 112.10 (111.80 to 112.80): VV013813.D (-1581) (-)

6.12

6000

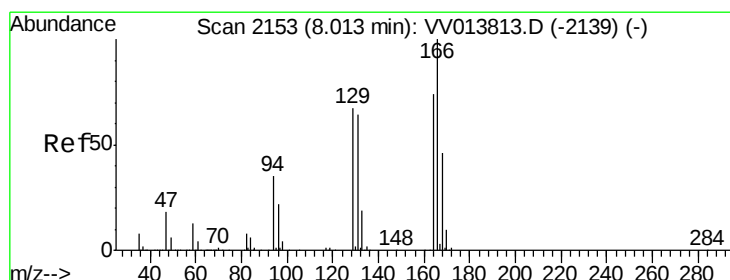
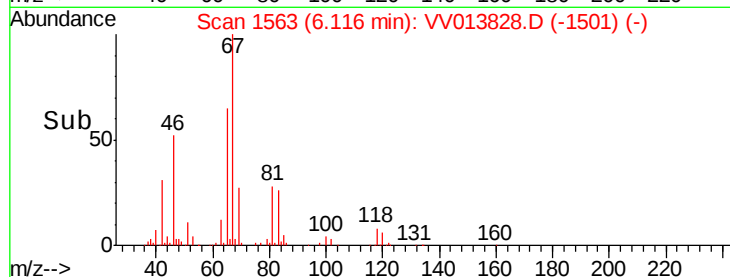
4000

2000

0

6.05 6.10 6.15 6.20

Time-->



#47

Tetrachloroethene

Concen: 3.905 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013828.D

Acq: 27 Nov 2019 17:30

Tgt Ion:164 Resp: 71740

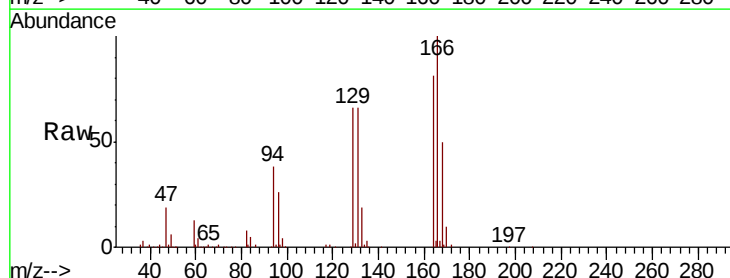
Ion Ratio Lower Upper

164 100

129 81.4 60.3 112.1

131 81.4 59.9 111.3

166 123.8 89.1 165.5



Abundance Ion 163.90 (163.60 to 164.60): VV013813.D (-2139) (-)

Ion 128.95 (128.65 to 129.65): VV013813.D (-2139) (-)

Ion 130.95 (130.65 to 131.65): VV013813.D (-2139) (-)

Ion 165.90 (165.60 to 166.60): VV013813.D (-2139) (-)

80000

60000

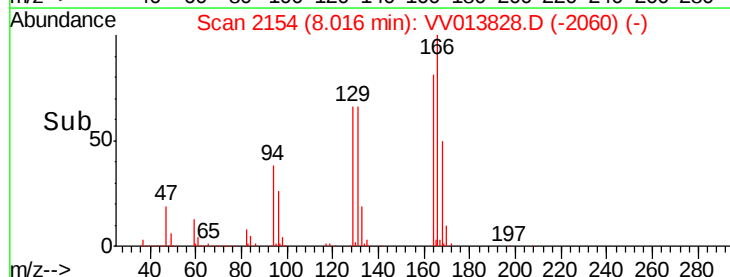
40000

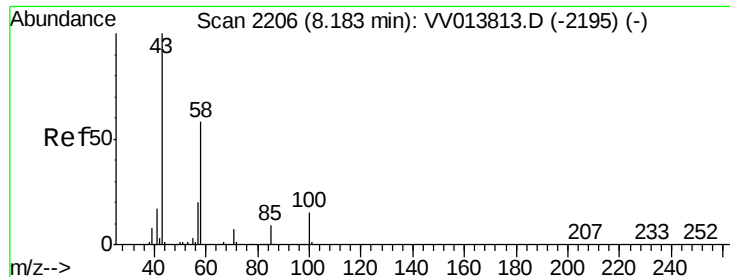
20000

0

7.95 8.00 8.05 8.10

Time-->

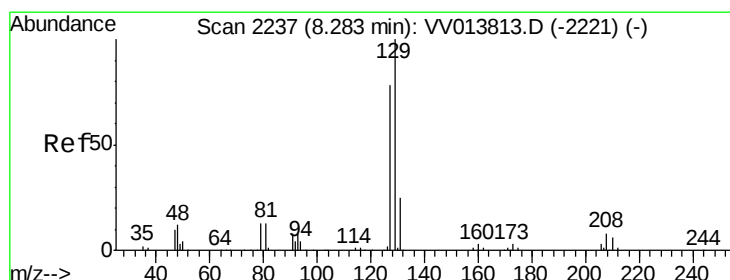
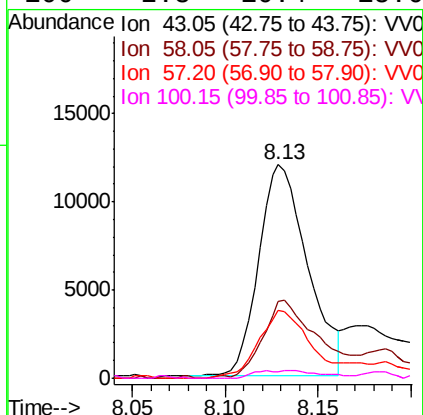
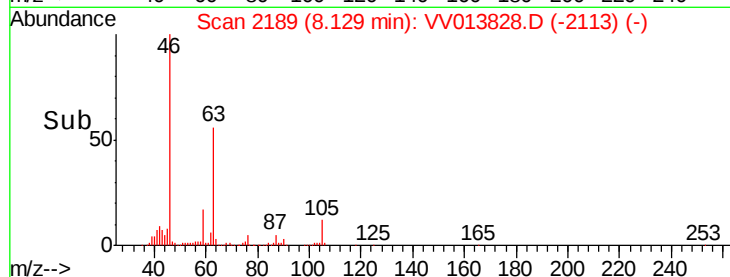
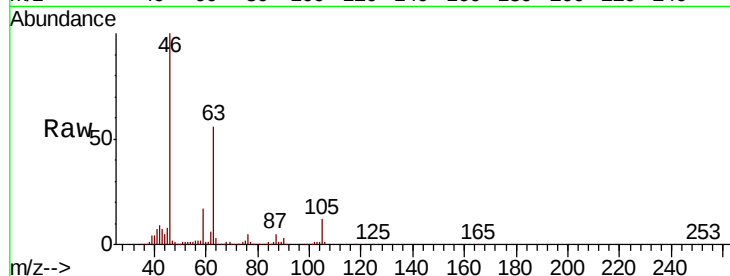




#48
2-Hexanone
Concen: 2.692 ug/L
RT: 8.13 min Scan# 2189
Delta R.T. -0.05 min
Lab File: VV013828.D
Acq: 27 Nov 2019 17:30

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 22100
Ion Ratio Lower Upper
43 100
58 42.0 43.2 64.8#
57 33.0 15.4 23.2#
100 2.8 10.4 15.6#



#49
Dibromochloromethane
Concen: 3.200 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. -0.27 min
Lab File: VV013828.D
Acq: 27 Nov 2019 17:30

Tgt Ion: 129 Resp: 57659
Ion Ratio Lower Upper
129 100
127 0.6 55.7 103.5#

