

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112719\
 Data File : VV013818.D
 Acq On : 27 Nov 2019 12:50
 Operator : SY/MD
 Sample : K6004-04
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 28 02:56:25 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	324621	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	311552	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	138742	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	79709	3.97	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.40%
7) Chloroethane-d5	1.58	69	81878	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.00%
11) 1,1-Dichloroethene-d2	2.13	63	128211	3.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.80%
20) 2-Butanone-d5	3.92	46	230811	55.26	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.52%
24) Chloroform-d	4.40	84	199600	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.08	65	98515	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
32) Benzene-d6	5.10	84	364935	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
36) 1,2-Dichloropropane-d6	6.11	67	118518	4.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.00%
41) Toluene-d8	7.36	98	285108	3.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.60%
43) trans-1,3-Dichloropropene-	7.66	79	37033	3.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.40%
46) 2-Hexanone-d5	8.13	63	161865	47.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.14%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	84353	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	121755	4.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	3069	0.162	ug/L	97
5) Vinyl chloride	1.32	62	47950	2.473	ug/L #	21
8) Chloroethane	1.60	64	5705	0.488	ug/L #	55
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1404	0.078	ug/L #	19
12) 1,1-Dichloroethene	2.14	96	33210	2.128	ug/L #	60
14) Carbon disulfide	2.32	76	3661	0.102	ug/L	97
16) Methylene chloride	2.53	84	2581	0.121	ug/L	96
18) trans-1,2-Dichloroethene	2.79	96	7018	0.398	ug/L	91
19) 1,1-Dichloroethane	3.23	63	42568	1.210	ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	366667	17.741	ug/L	97
27) 1,2-Dichloroethane	5.09	62	2557	0.120	ug/L	98
34) Trichloroethene	5.96	95	229644	10.893	ug/L	98
35) Methylcyclohexane	6.11	83	29638	1.054	ug/L #	20
37) 1,2-Dichloropropane	6.23	63	2313	0.118	ug/L #	90
44) trans-1,3-Dichloropropene	7.66	75	2184	0.100	ug/L	98
48) 2-Hexanone	8.13	43	18691	2.285	ug/L #	77

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Response via : Initial Calibration

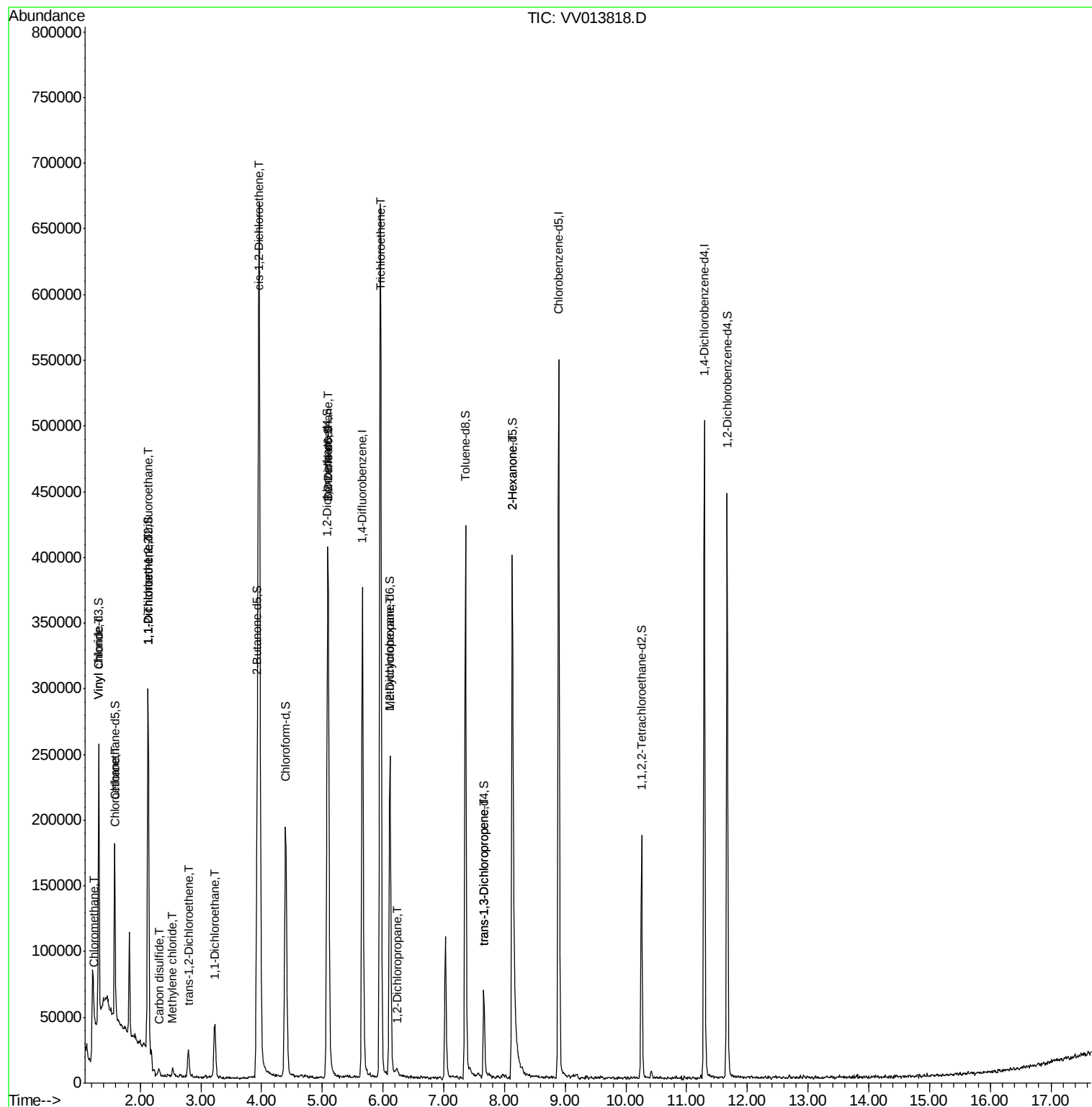
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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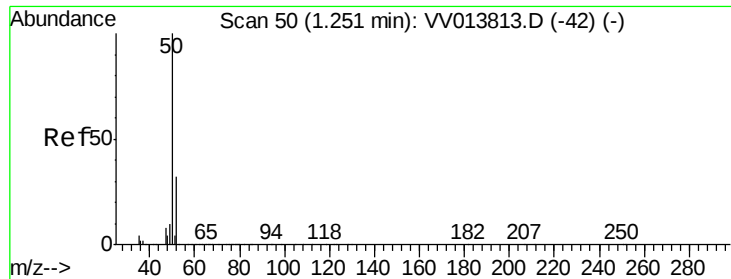
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 28 02:51:59 2019
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.162 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

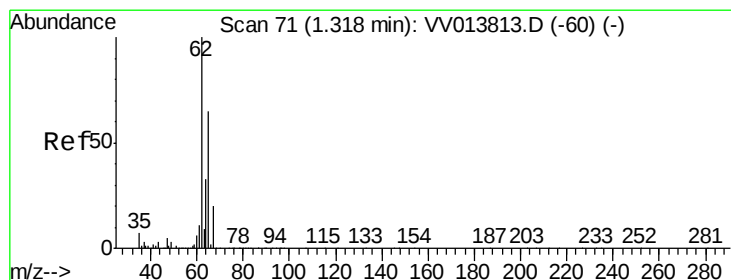
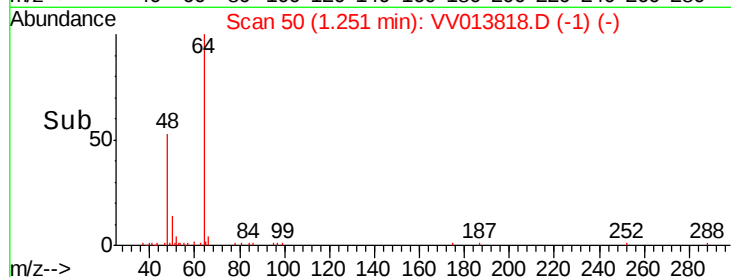
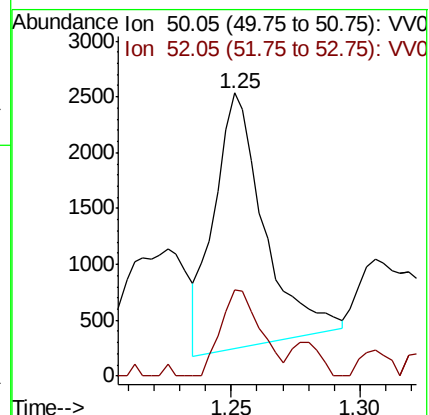
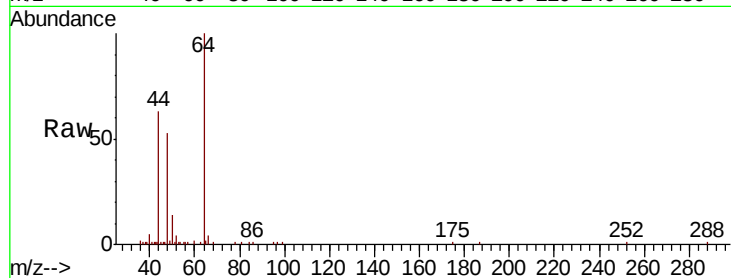
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 50 Resp: 3069

Ion Ratio Lower Upper

50 100

52 30.5 22.5 41.7



#5

Vinyl chloride

Concen: 2.473 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013818.D

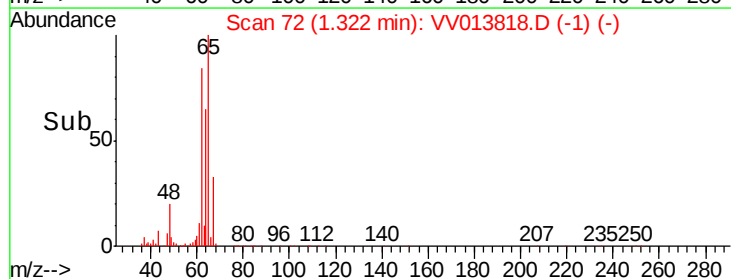
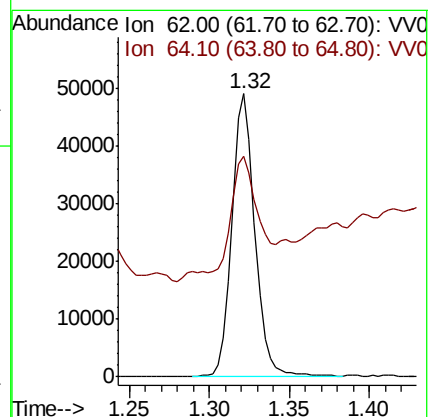
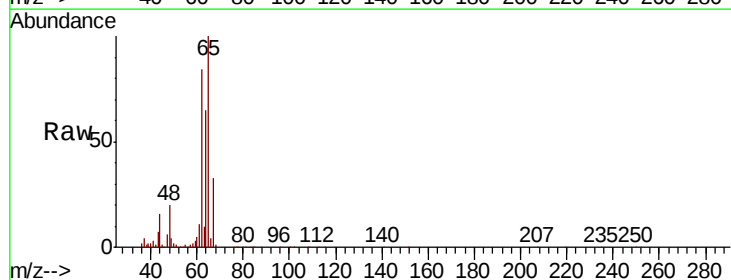
Acq: 27 Nov 2019 12:50

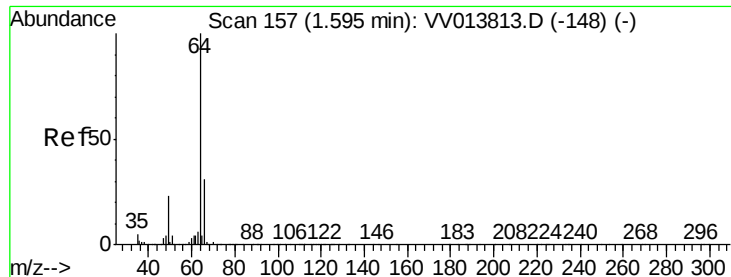
Tgt Ion: 62 Resp: 47950

Ion Ratio Lower Upper

62 100

64 77.9 23.3 43.3#





#8

Chloroethane

Concen: 0.488 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

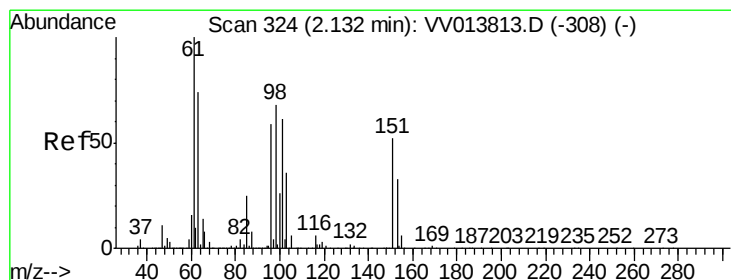
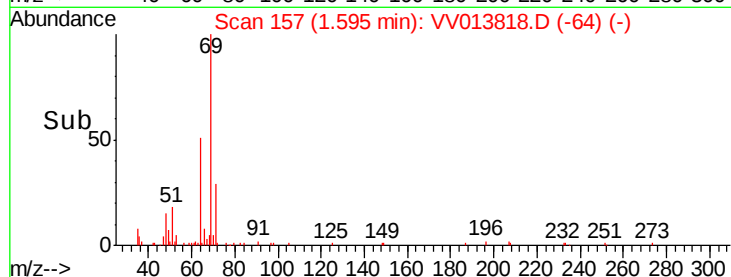
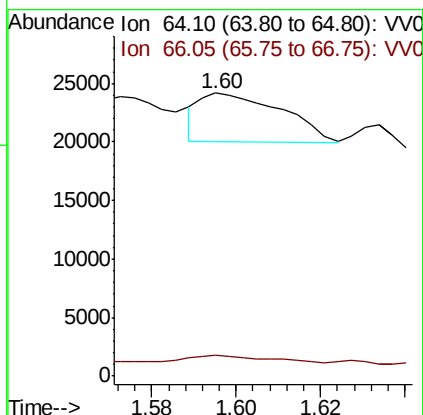
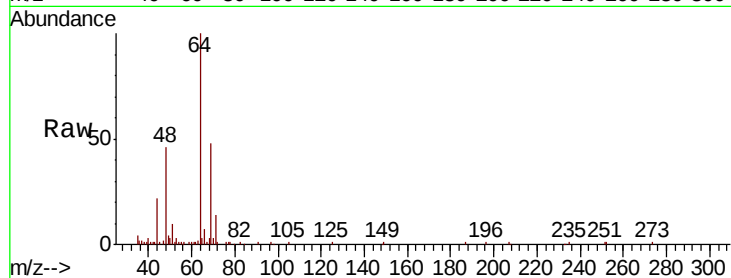
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 5705

Ion Ratio Lower Upper

64 100

66 7.3 22.6 42.0#



#10

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

Concen: 0.078 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

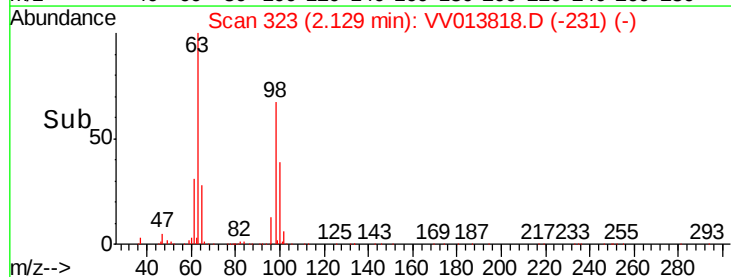
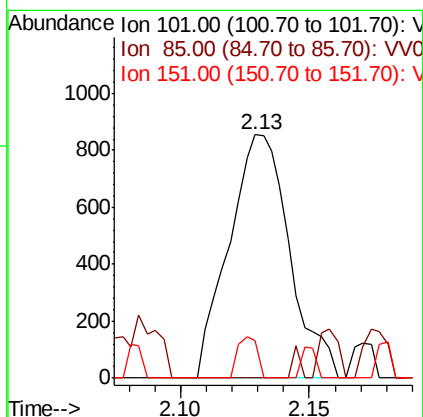
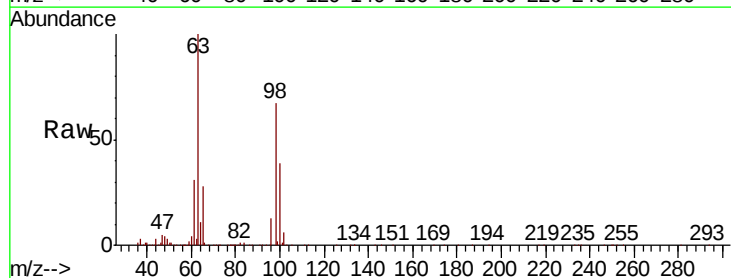
Tgt Ion:101 Resp: 1404

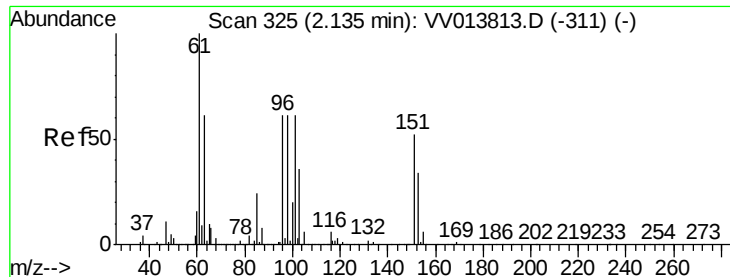
Ion Ratio Lower Upper

101 100

85 0.0 33.4 50.0#

151 5.4 69.4 104.0#





#12

1,1-Dichloroethene

Concen: 2.128 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

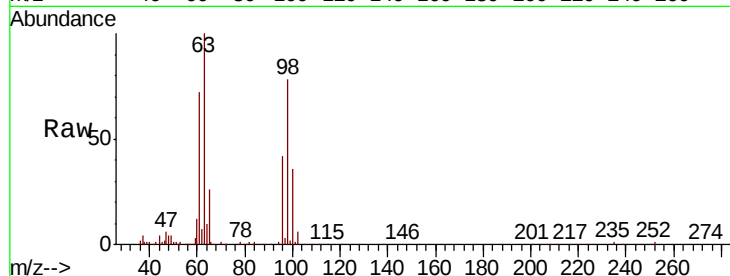
Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 96 Resp: 33210

Ion	Ratio	Lower	Upper
96	100		
61	172.1	116.3	215.9
63	238.7	96.7	179.7

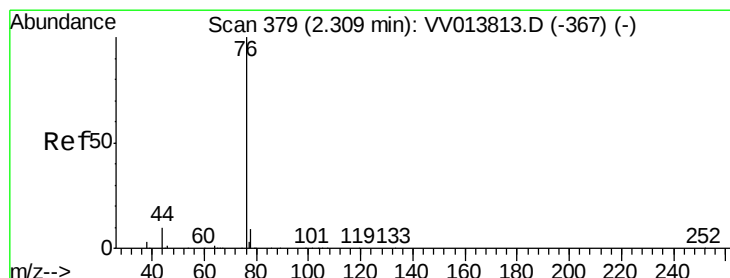
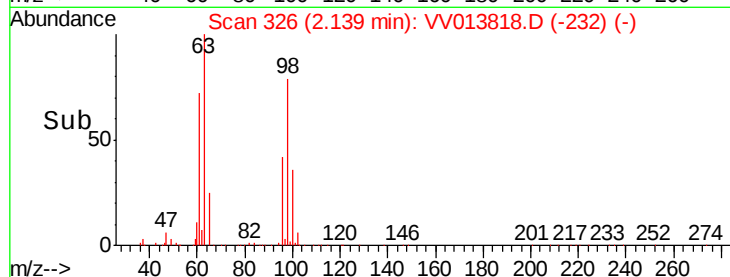
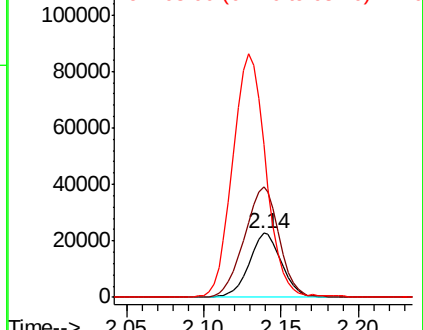


Abundance

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



#14

Carbon disulfide

Concen: 0.102 ug/L

RT: 2.32 min Scan# 382

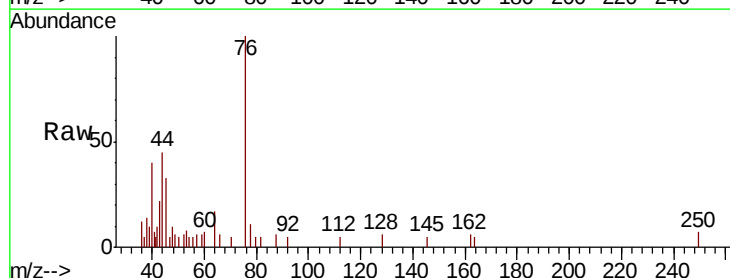
Delta R.T. 0.01 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

Tgt Ion: 76 Resp: 3661

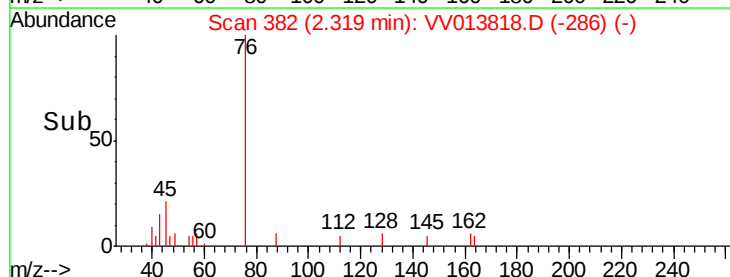
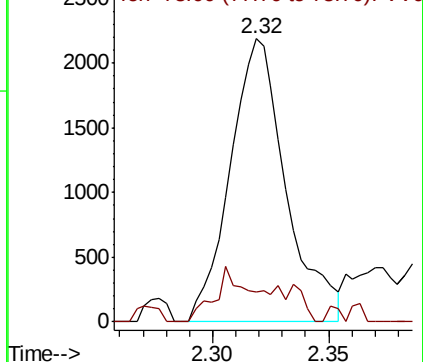
Ion	Ratio	Lower	Upper
76	100		
78	10.6	7.5	11.3

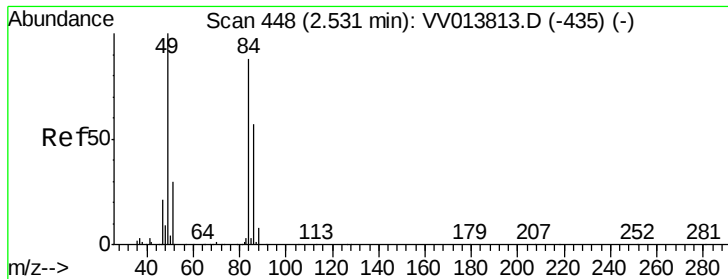


Abundance

Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

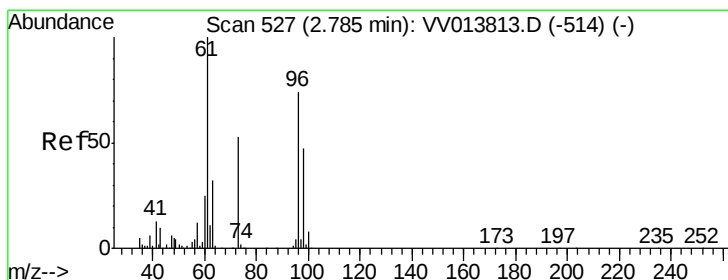
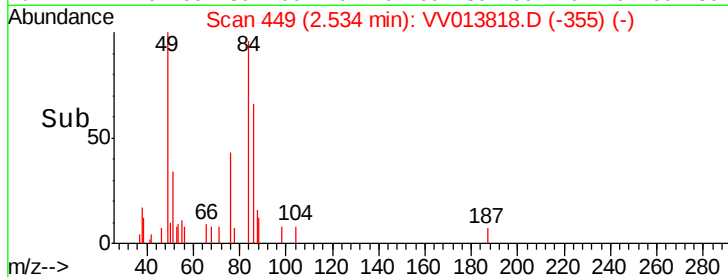
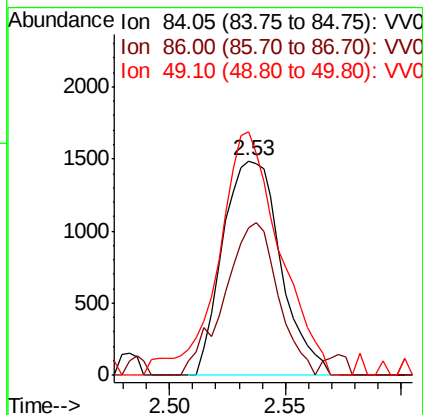
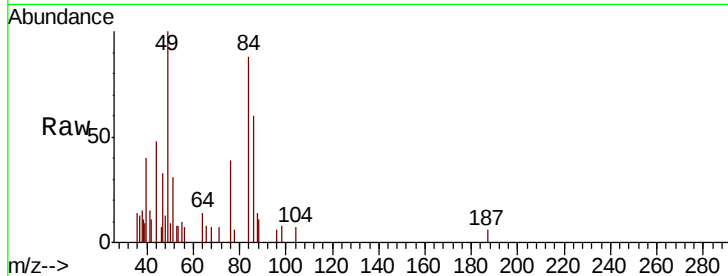




#16
Methvlene chloride
Concen: 0.121 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV013818.D
Acq: 27 Nov 2019 12:50

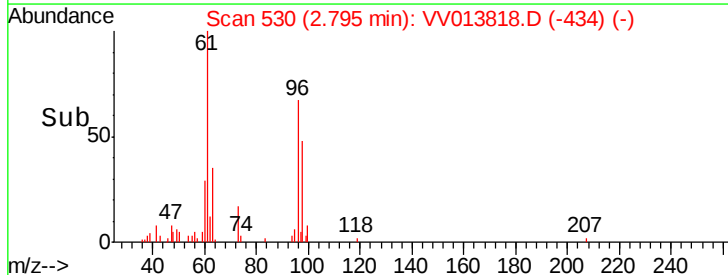
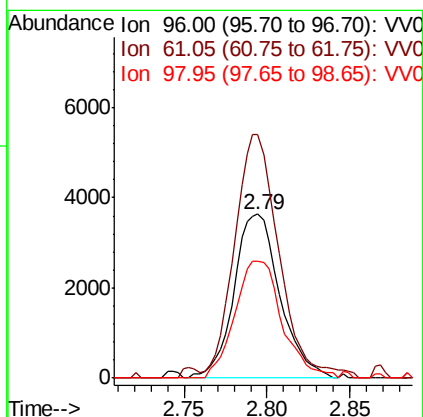
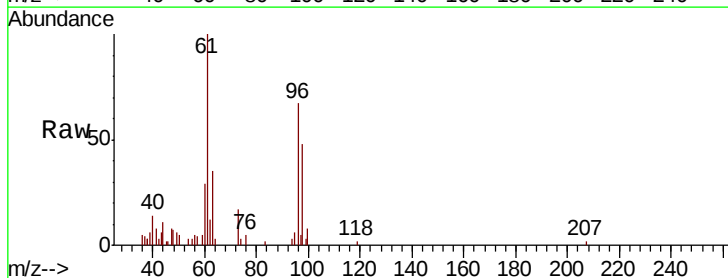
Instrument :
MSVOA_V
ClientSampled :

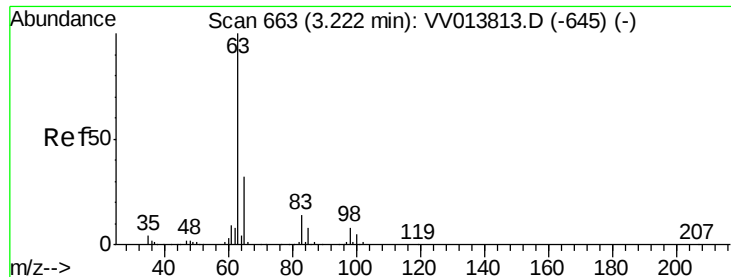
Tot Ion: 84 Resp: 2581
Ion Ratio Lower Upper
84 100
86 68.7 44.0 81.6
49 113.7 81.5 151.5



#18
trans-1,2-Dichloroethene
Concen: 0.398 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV013818.D
Acq: 27 Nov 2019 12:50

Tgt Ion: 96 Resp: 7018
Ion Ratio Lower Upper
96 100
61 148.3 95.1 176.7
98 71.5 46.5 86.3





#19

1,1-Dichloroethane

Concen: 1.210 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.01 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

Instrument :
MSVOA_V
ClientSampled :

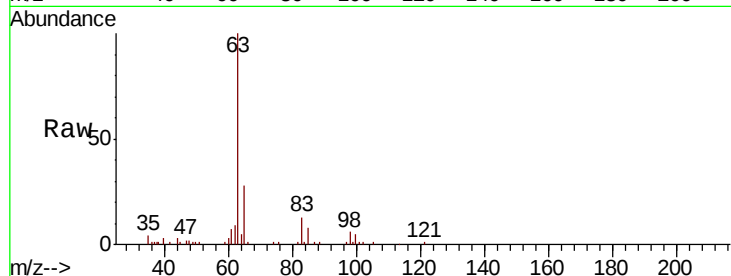
Tot Ion: 63 Resp: 42568

Ion Ratio Lower Upper

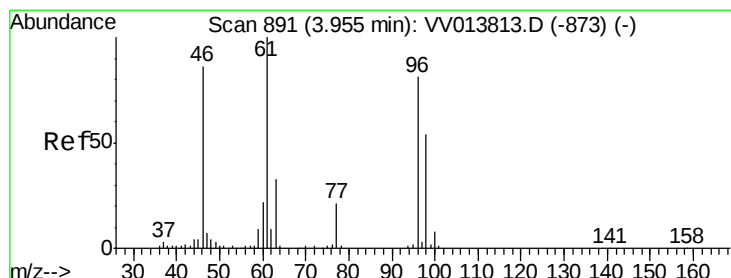
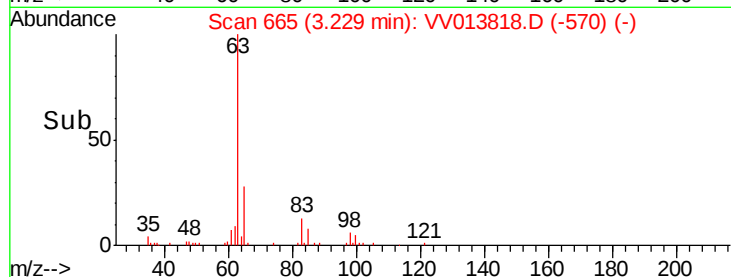
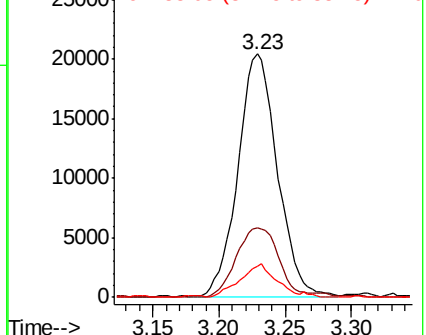
63 100

65 28.4 22.7 42.1

83 12.8 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: 17.741 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

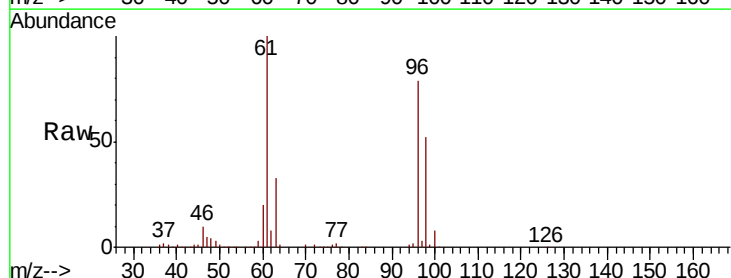
Tgt Ion: 96 Resp: 366667

Ion Ratio Lower Upper

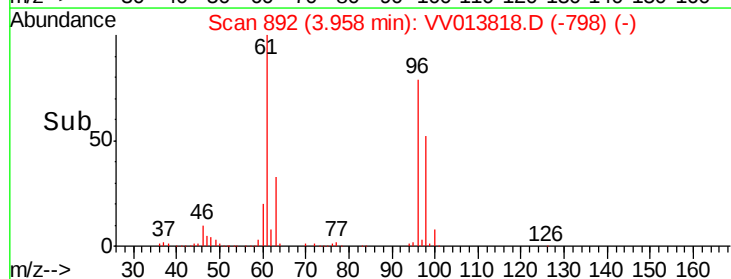
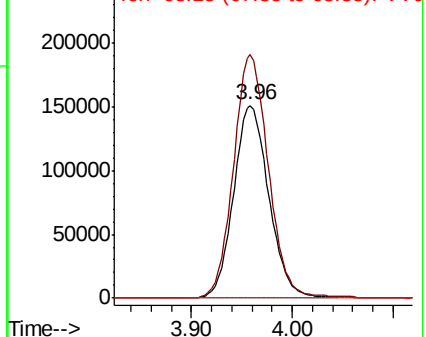
96 100

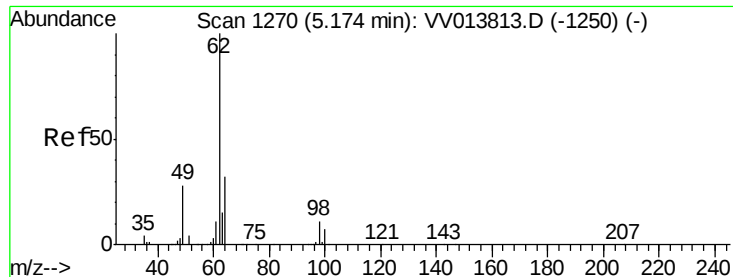
61 126.2 86.1 159.9

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: 0.120 ug/L

RT: 5.09 min Scan# 1245

Delta R.T. -0.08 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

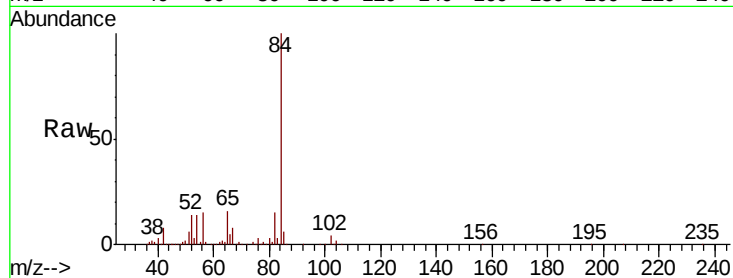
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 2557

Ion Ratio Lower Upper

62 100

98 9.5 8.2 12.2



Abundance Ion 62.00 (61.70 to 62.70): VV013813.D (-1250) (-)

Ion 98.05 (97.75 to 98.75): VV013813.D (-1250) (-)

5.09

1200

1000

800

600

400

200

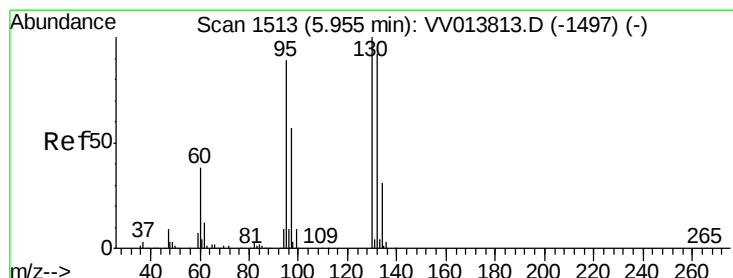
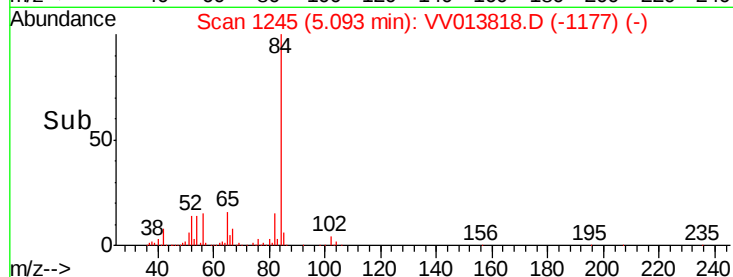
0

5.05

5.10

5.15

Time-->



#34

Trichloroethene

Concen: 10.893 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

Tgt Ion: 95 Resp: 229644

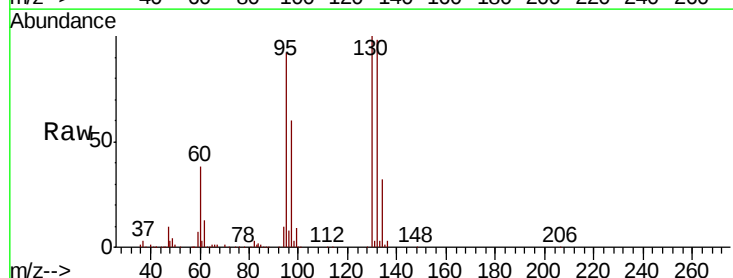
Ion Ratio Lower Upper

95 100

97 64.8 45.6 84.8

132 106.3 70.5 130.9

130 108.7 75.9 140.9



Abundance Ion 95.00 (94.70 to 95.70): VV013813.D (-1497) (-)

Ion 96.95 (96.65 to 97.65): VV013813.D (-1497) (-)

Ion 131.95 (131.65 to 132.65): VV013813.D (-1497) (-)

Ion 129.95 (129.65 to 130.65): VV013813.D (-1497) (-)

200000

150000

100000

50000

0

5.85

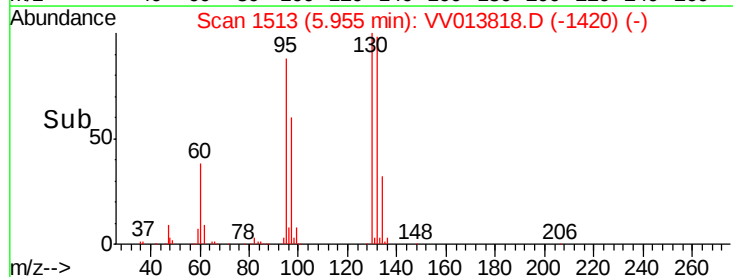
5.90

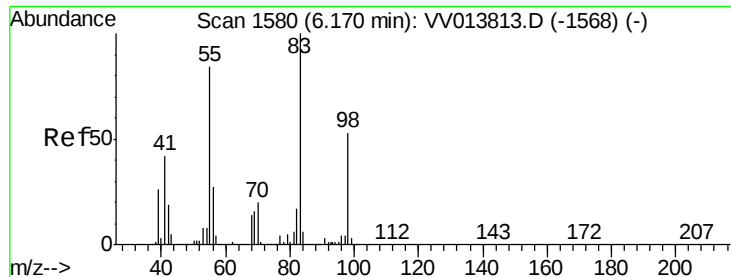
5.95

6.00

6.05

Time-->

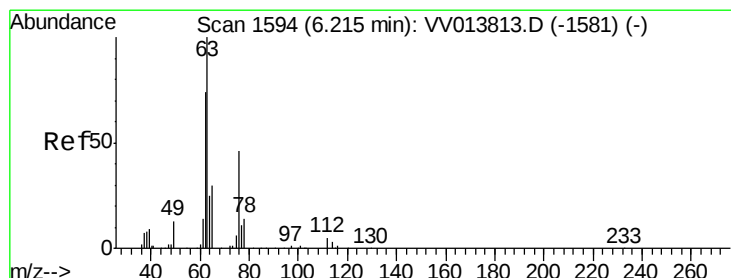
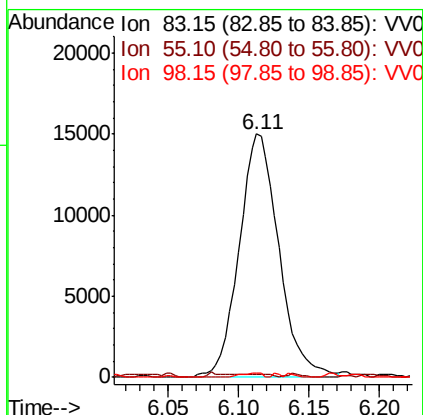
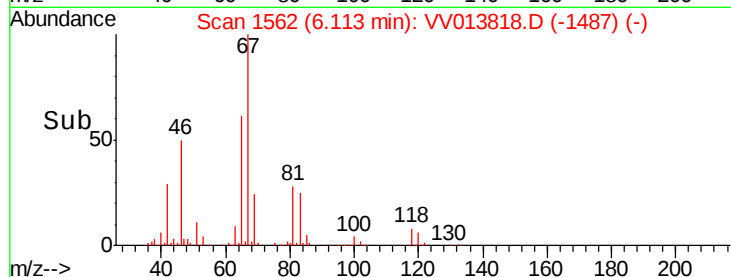
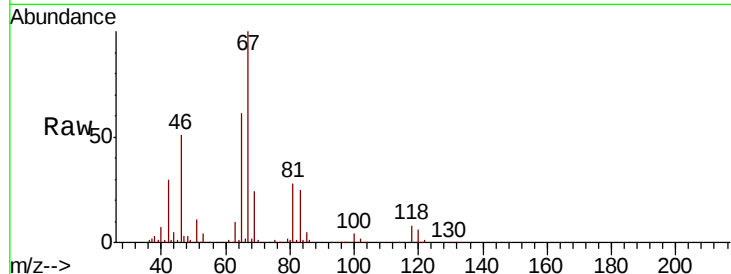




#35
Methvlcvclohexane
Concen: 1.054 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.06 min
Lab File: VV013818.D
Acq: 27 Nov 2019 12:50

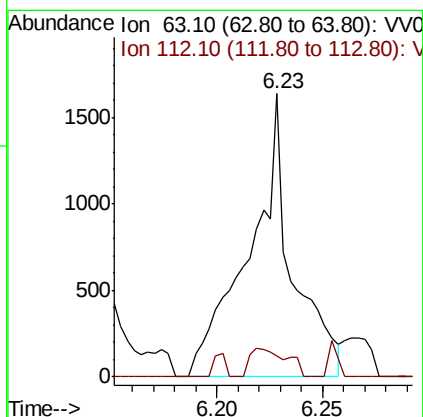
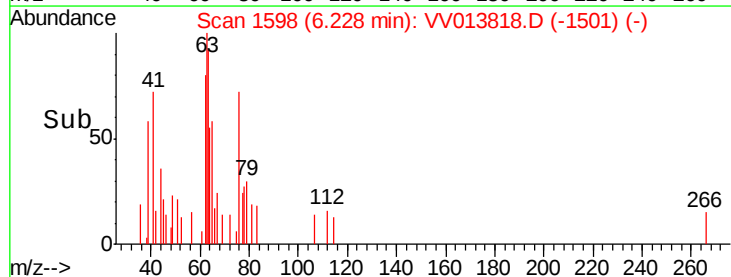
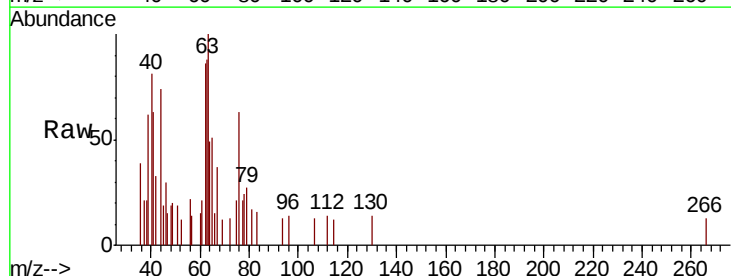
Instrument :
MSVOA_V
ClientSampleId :

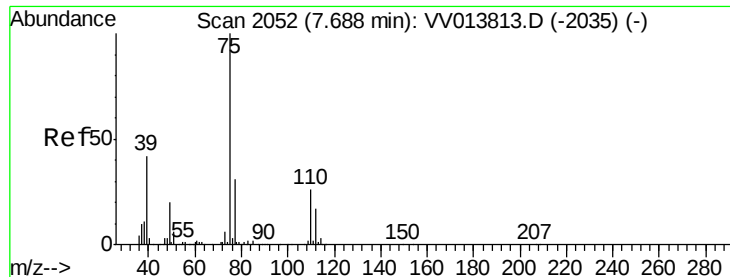
Tot Ion: 83 Resp: 29638
Ion Ratio Lower Upper
83 100
55 1.1 60.3 90.5#
98 1.0 38.1 57.1#



#37
1,2-Dichloropropane
Concen: 0.118 ug/L
RT: 6.23 min Scan# 1598
Delta R.T. 0.01 min
Lab File: VV013818.D
Acq: 27 Nov 2019 12:50

Tgt Ion: 63 Resp: 2313
Ion Ratio Lower Upper
63 100
112 8.7 4.4 6.6#





#44

trans-1,3-Dichloropropene

Concen: 0.100 ug/L

RT: 7.66 min Scan# 2043

Delta R.T. -0.03 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

Instrument :

MSVOA_V

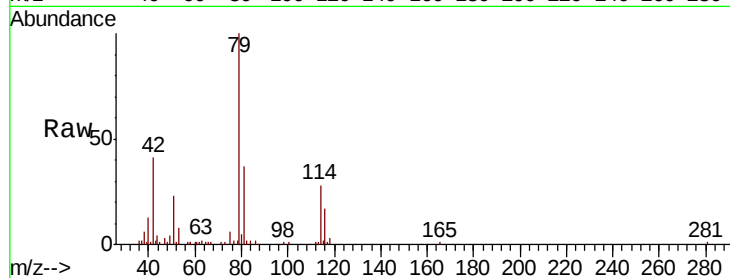
ClientSampleId :

Tot Ion: 75 Resp: 2184

Ion Ratio Lower Upper

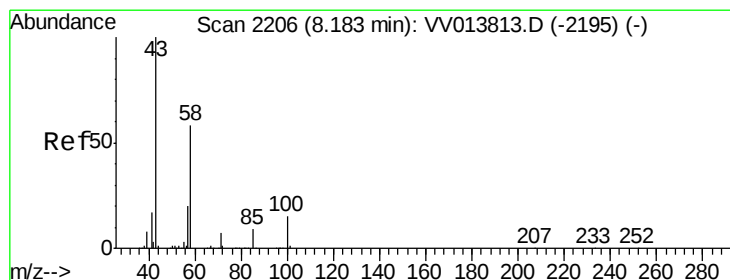
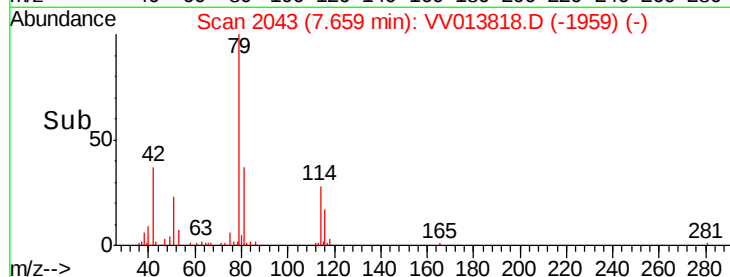
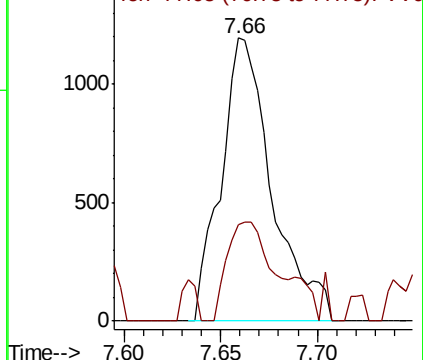
75 100

77 34.2 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#48

2-Hexanone

Concen: 2.285 ug/L

RT: 8.13 min Scan# 2189

Delta R.T. -0.05 min

Lab File: VV013818.D

Acq: 27 Nov 2019 12:50

Tgt Ion: 43 Resp: 18691

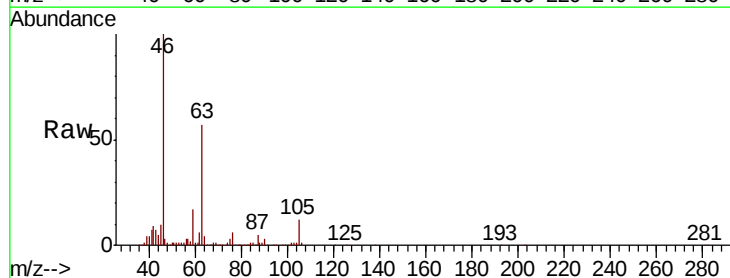
Ion Ratio Lower Upper

43 100

58 42.8 43.2 64.8#

57 38.7 15.4 23.2#

100 4.2 10.4 15.6#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

