

Data File : VV013751.D
Acq On : 22 Nov 2019 22:12
Operator : SY/MD
Sample : K5941-17
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
B0AD1

Quant Time: Nov 23 01:41:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Nov 23 01:35:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	327123	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	317006	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	143968	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	102848	5.08	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.60%
7) Chloroethane-d5	1.58	69	96498	5.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	112.20%
11) 1,1-Dichloroethene-d2	2.14	63	533444	15.65	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	313.00%#
20) 2-Butanone-d5	3.93	46	252966	60.10	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.20%
24) Chloroform-d	4.40	84	222112	5.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.80%
26) 1,2-Dichloroethane-d4	5.08	65	113325	5.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	116.60%
32) Benzene-d6	5.10	84	426883	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.40%
36) 1,2-Dichloropropane-d6	6.11	67	132958	5.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.20%
41) Toluene-d8	7.36	98	373764	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
43) trans-1,3-Dichloropropene-	7.66	79	40103	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.13	63	192698	55.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.14%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	101609	6.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	120.20%#
64) 1,2-Dichlorobenzene-d4	11.67	152	157948	6.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	124.20%#

Target Compounds

					Qvalue
3) Chloromethane	1.20	50	27744	1.450 ug/L #	45
5) Vinyl chloride	1.32	62	51915	2.656 ug/L #	1
8) Chloroethane	1.60	64	35620	3.025 ug/L #	57
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3634	0.202 ug/L #	25
12) 1,1-Dichloroethene	2.14	96	763484	48.544 ug/L #	66
14) Carbon disulfide	2.32	76	6656	0.183 ug/L #	87
16) Methylene chloride	2.54	84	3742	0.174 ug/L #	82
17) Methyl tert-butyl Ether	2.80	73	20575	0.478 ug/L	93
18) trans-1,2-Dichloroethene	2.79	96	2171	0.122 ug/L	80
19) 1,1-Dichloroethane	3.23	63	835779	23.573 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	35617	1.710 ug/L	92
25) Chloroform	4.42	83	7569	0.201 ug/L	96
27) 1,2-Dichloroethane	5.18	62	14476	0.673 ug/L	97
29) 1,1,1-Trichloroethane	4.66	97	73070	2.253 ug/L	98
31) Carbon tetrachloride	4.65	117	10089	0.354 ug/L	100
34) Trichloroethene	5.96	95	776094	36.180 ug/L	98
35) Methylcyclohexane	6.12	83	32816	1.147 ug/L #	19

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV112219\
Quantitation Report (Not Reviewed)

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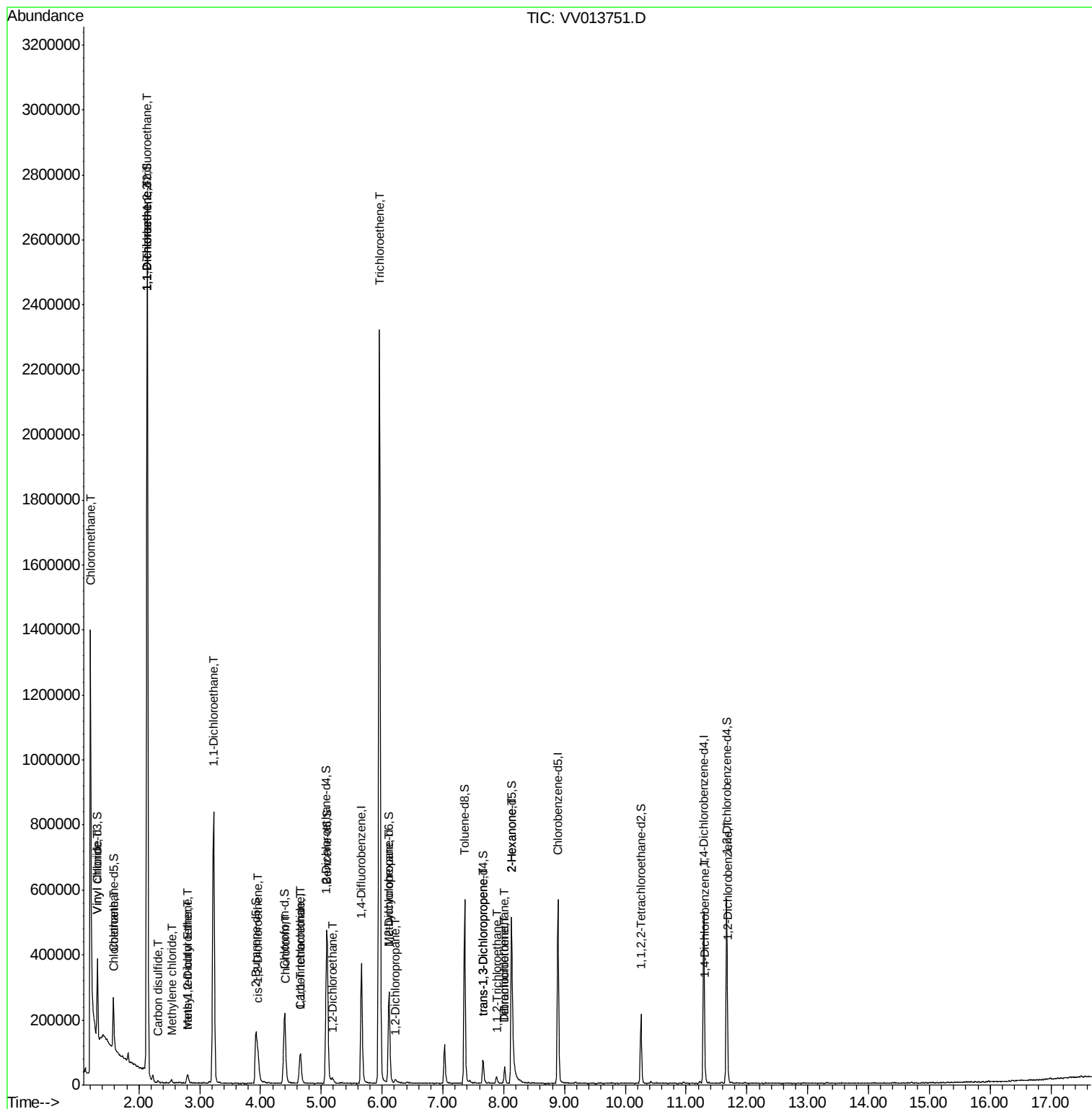
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.22	63	4260	0.213	ug/L #	92
44) trans-1,3-Dichloropropene	7.66	75	1875	0.084	ug/L	92
45) 1,1,2-Trichloroethane	7.88	97	6481	0.455	ug/L	93
47) Tetrachloroethene	8.02	164	12362	0.664	ug/L	95
48) 2-Hexanone	8.13	43	24643	2.961	ug/L #	79
49) Dibromochloromethane	8.02	129	9581	0.524	ug/L #	10
63) 1,4-Dichlorobenzene	11.32	146	5312	0.125	ug/L	95
65) 1,2-Dichlorobenzene	11.69	146	5368	0.138	ug/L	91

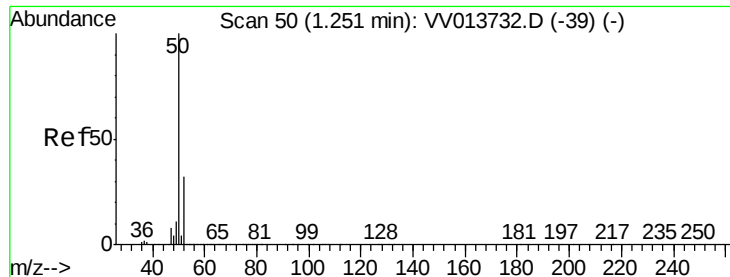
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 1.450 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.05 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

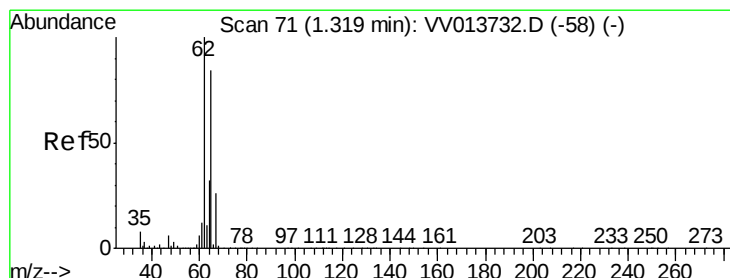
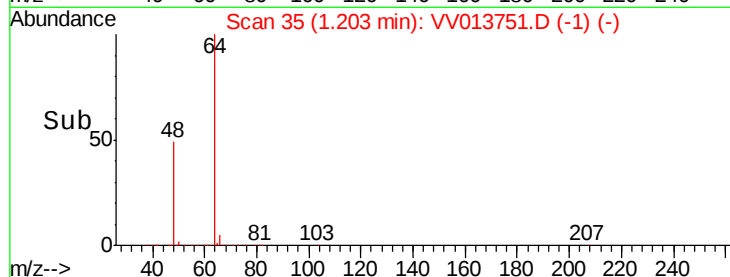
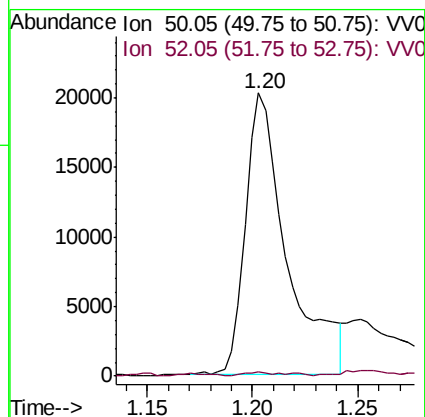
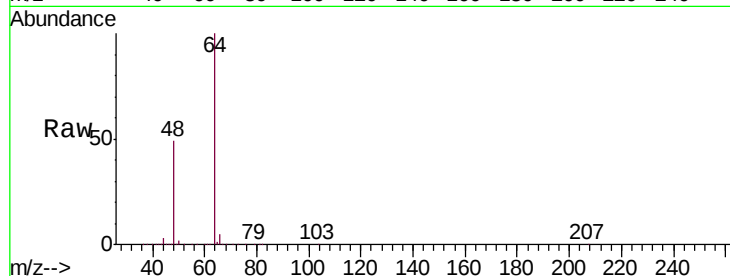
B0AD1

Tgt Ion: 50 Resp: 27744

Ion Ratio Lower Upper

50 100

52 1.5 22.5 41.7#



#5

Vinyl chloride

Concen: 2.656 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013751.D

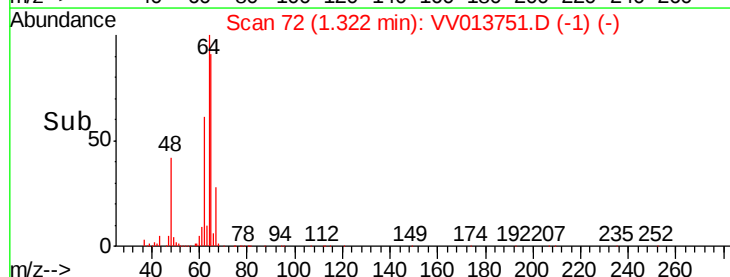
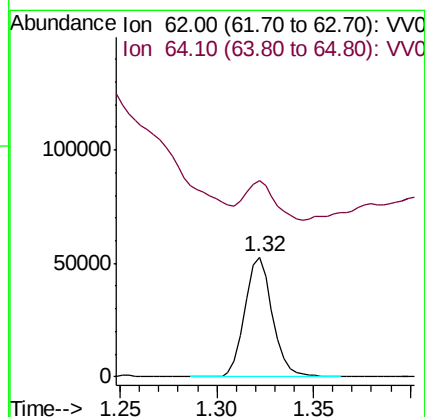
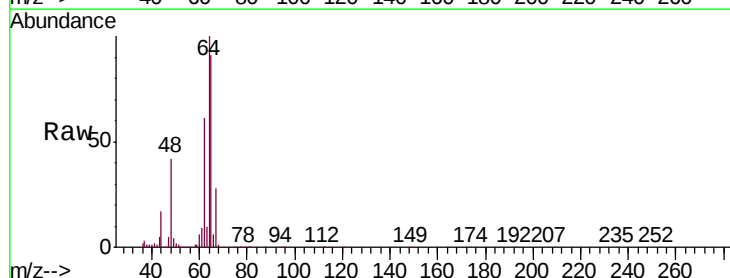
Acq: 22 Nov 2019 22:12

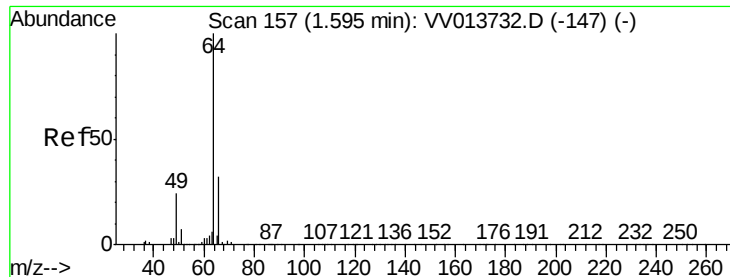
Tgt Ion: 62 Resp: 51915

Ion Ratio Lower Upper

62 100

64 163.1 23.3 43.3#





#8

Chloroethane

Concen: 3.025 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

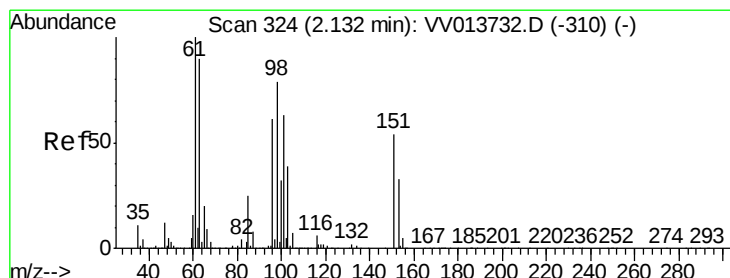
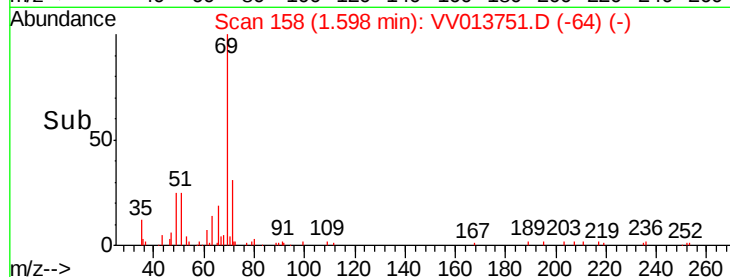
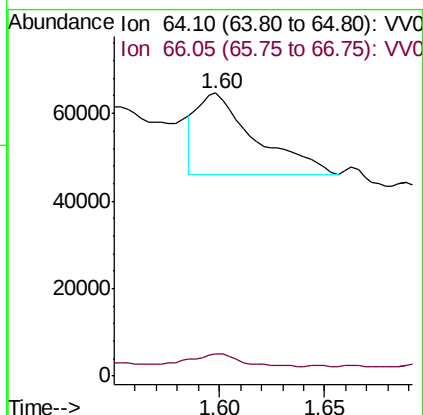
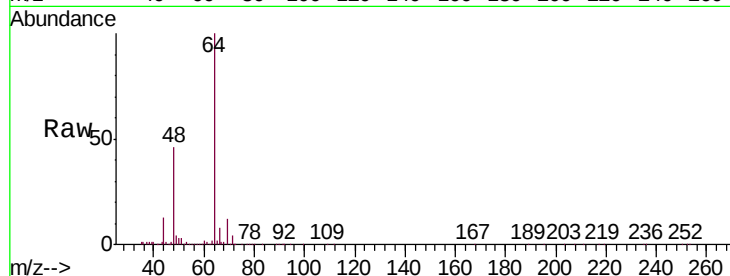
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Tgt Ion: 64 Resp: 35620

Ion Ratio Lower Upper

64 100

66 8.0 22.6 42.0#



#10

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

Concen: 0.202 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

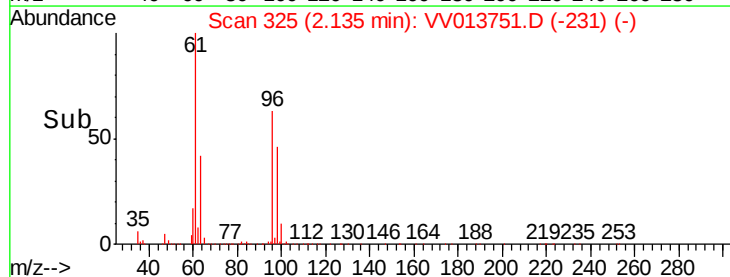
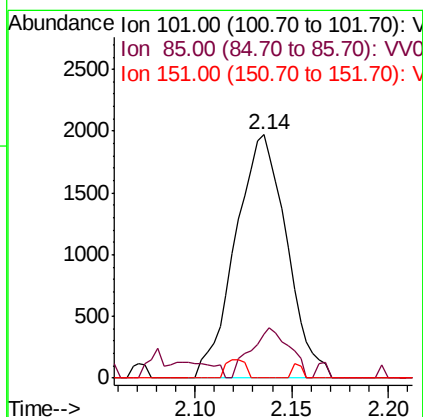
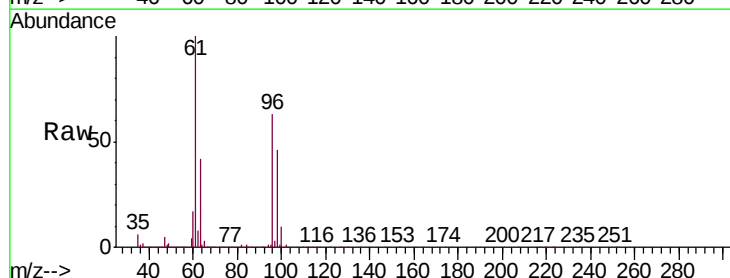
Tgt Ion: 101 Resp: 3634

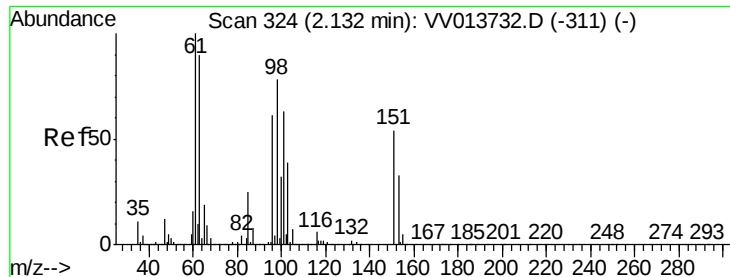
Ion Ratio Lower Upper

101 100

85 15.6 33.4 50.0#

151 2.8 69.4 104.0#

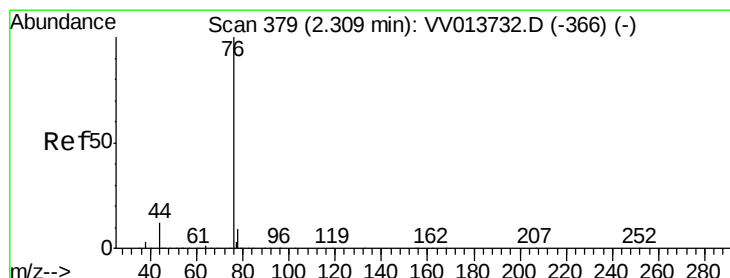
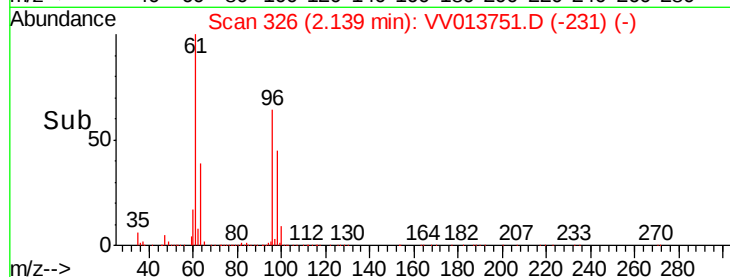
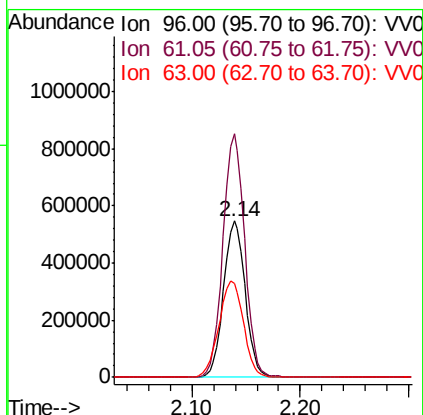
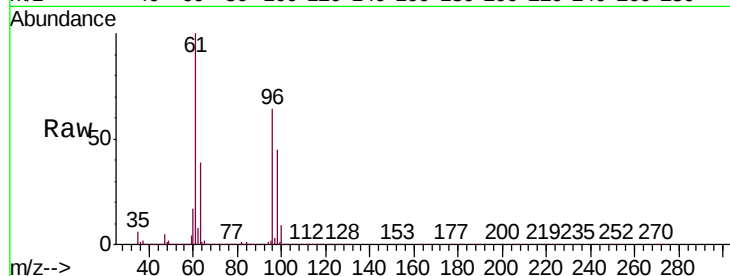




#12
 1,1-Dichloroethene
 Concen: 48.544 ug/L
 RT: 2.14 min Scan# 326
 Delta R.T. 0.01 min
 Lab File: VV013751.D
 Acq: 22 Nov 2019 22:12

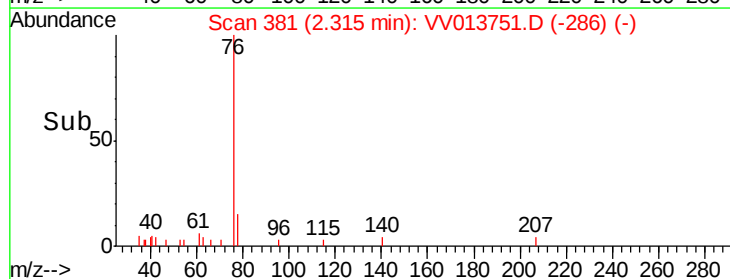
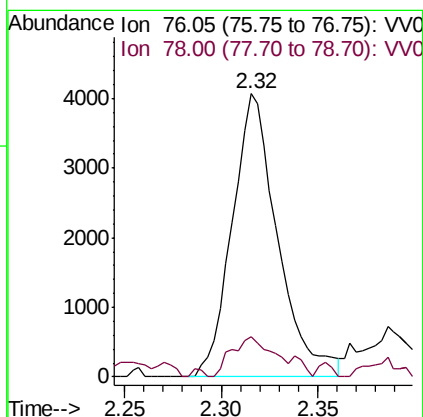
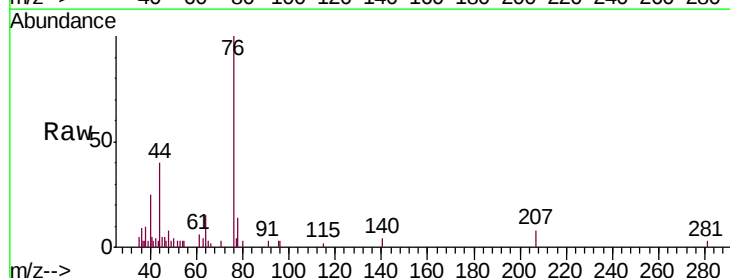
Instrument :
 MSVOA_V
 ClientSampleId :
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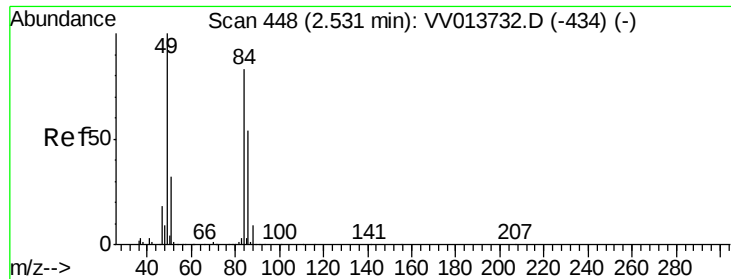
Tgt Ion: 96 Resp: 763484
 Ion Ratio Lower Upper
 96 100
 61 155.6 116.3 215.9
 63 60.3 96.7 179.7#



#14
 Carbon disulfide
 Concen: 0.183 ug/L
 RT: 2.32 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VV013751.D
 Acq: 22 Nov 2019 22:12

Tgt Ion: 76 Resp: 6656
 Ion Ratio Lower Upper
 76 100
 78 14.1 7.5 11.3#

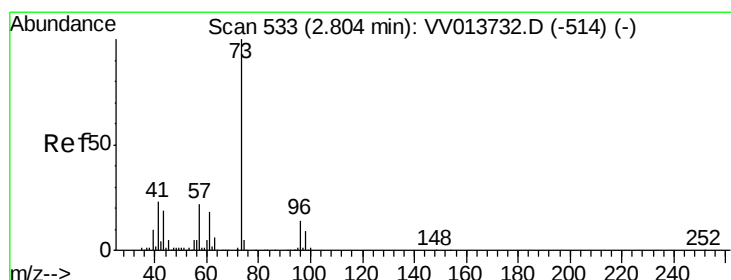
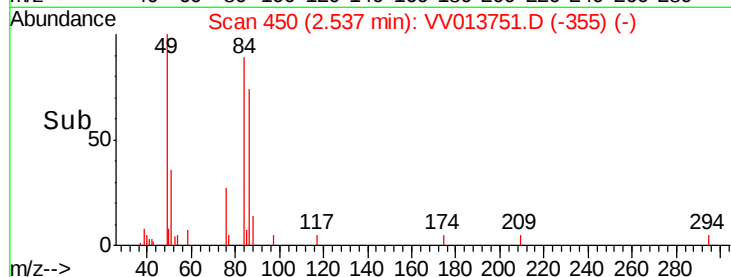
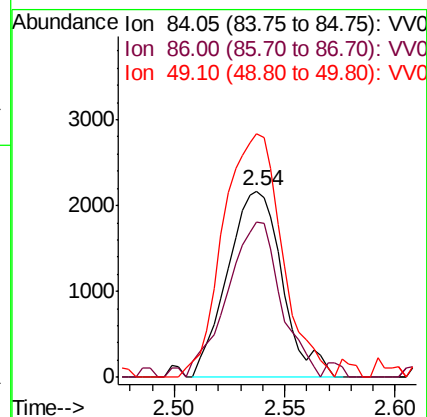
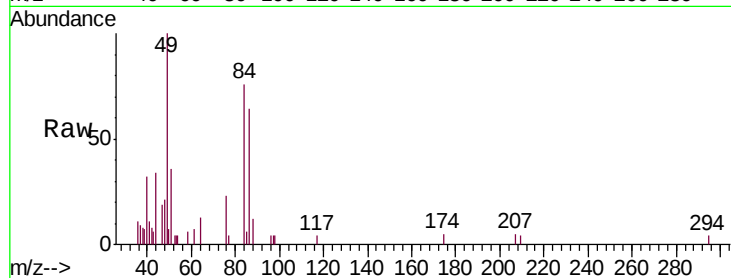




#16
Methylene chloride
Concen: 0.174 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.01 min
Lab File: VV013751.D
Acq: 22 Nov 2019 22:12

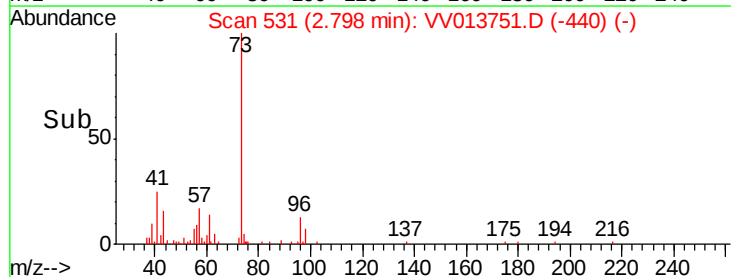
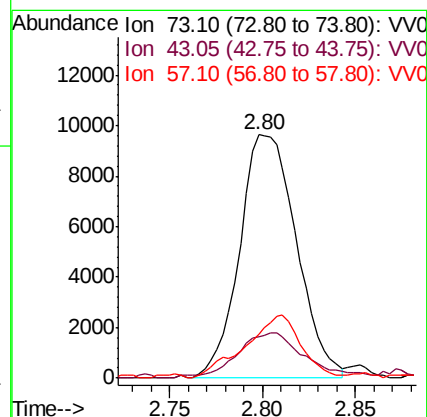
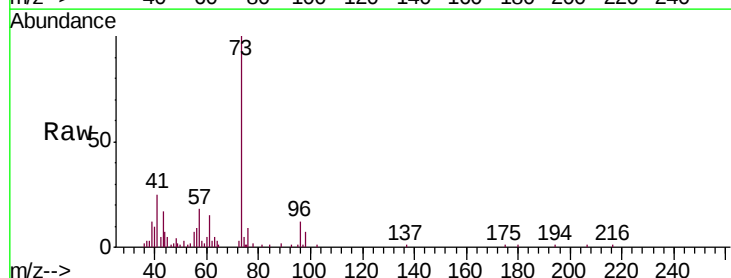
Instrument :
MSVOA_V
ClientSampled :
B0AD1

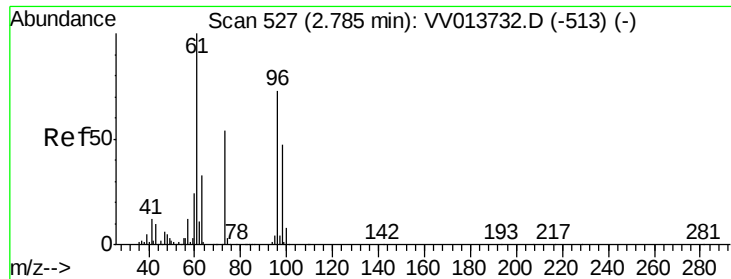
Tgt Ion: 84 Resp: 3742
Ion Ratio Lower Upper
84 100
86 83.2 44.0 81.6#
49 130.8 81.5 151.5



#17
Methyl tert-butyl Ether
Concen: 0.478 ug/L
RT: 2.80 min Scan# 531
Delta R.T. -0.01 min
Lab File: VV013751.D
Acq: 22 Nov 2019 22:12

Tgt Ion: 73 Resp: 20575
Ion Ratio Lower Upper
73 100
43 22.4 15.5 23.3
57 25.4 17.5 26.3

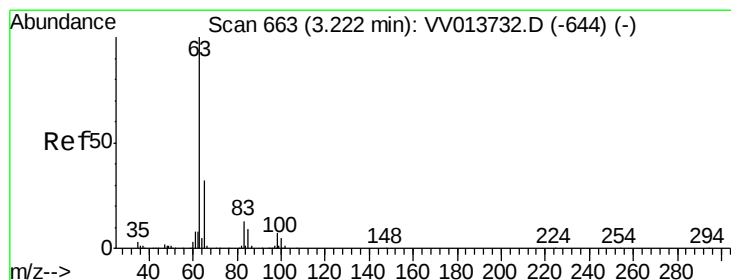
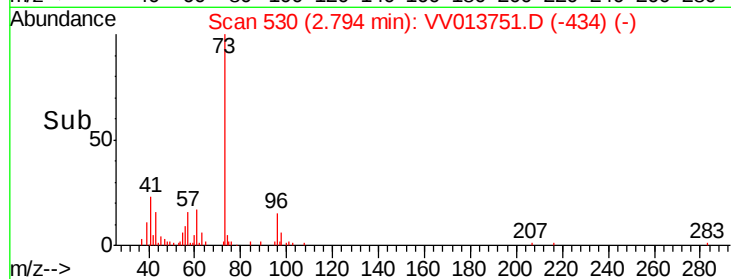
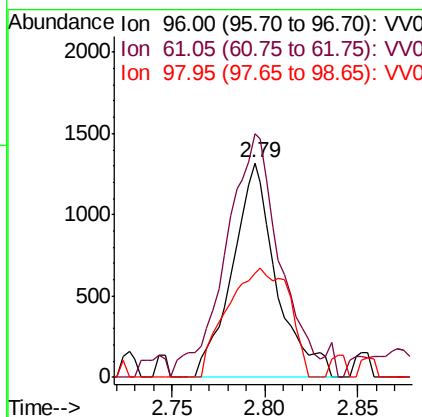
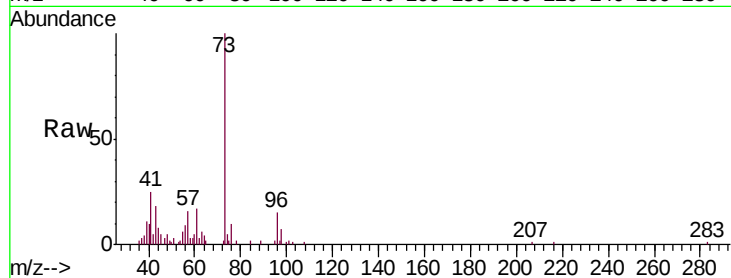




#18
 trans-1,2-Dichloroethene
 Concen: 0.122 ug/L
 RT: 2.79 min Scan# 530
 Delta R.T. 0.01 min
 Lab File: VV013751.D
 Acq: 22 Nov 2019 22:12

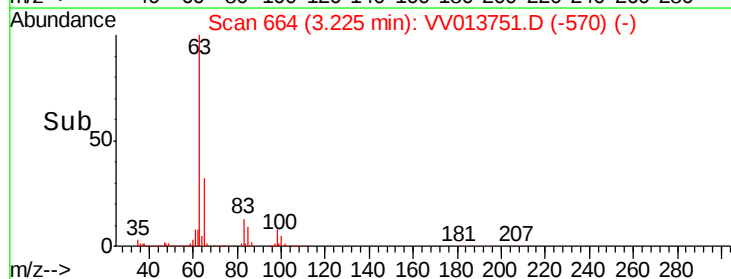
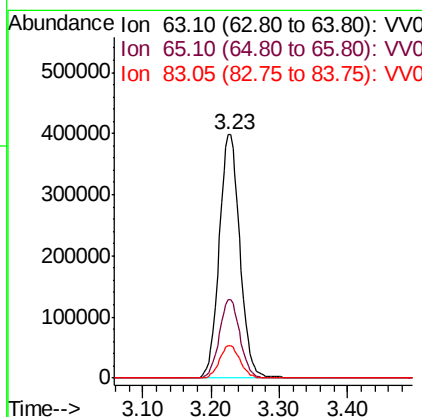
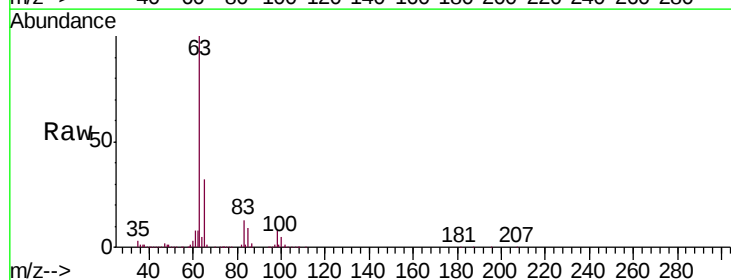
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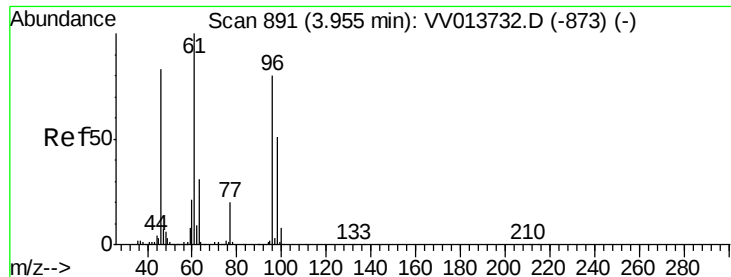
Tgt Ion:	96	Resp:	2171
Ion	Ratio	Lower	Upper
96	100		
61	113.7	95.1	176.7
98	48.8	46.5	86.3



#19
 1,1-Dichloroethane
 Concen: 23.573 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV013751.D
 Acq: 22 Nov 2019 22:12

Tgt Ion:	63	Resp:	835779
Ion	Ratio	Lower	Upper
63	100		
65	32.1	22.7	42.1
83	13.3	9.2	17.2





#22

cis-1,2-Dichloroethene

Concen: 1.710 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.01 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

B0AD1

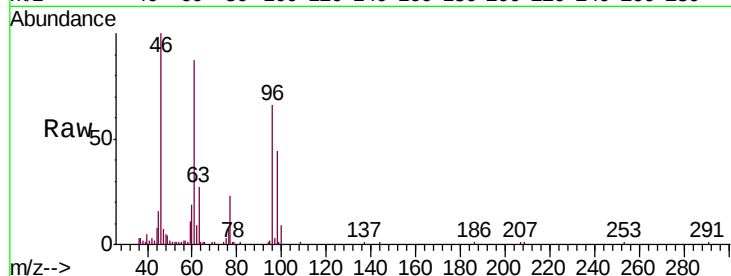
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Ion Ratio Lower Upper

96 100

61 131.7 86.1 159.9

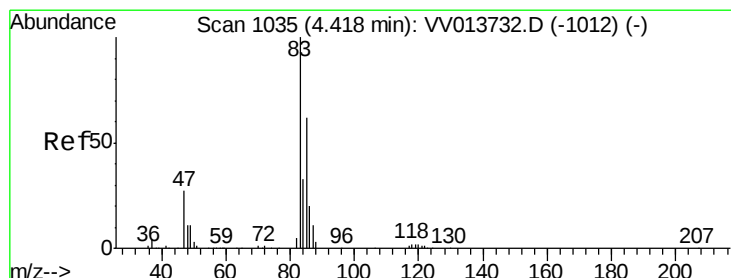
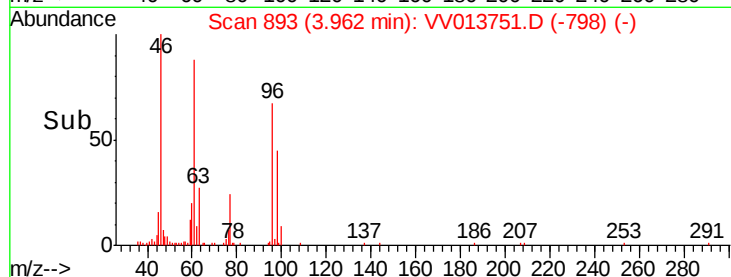
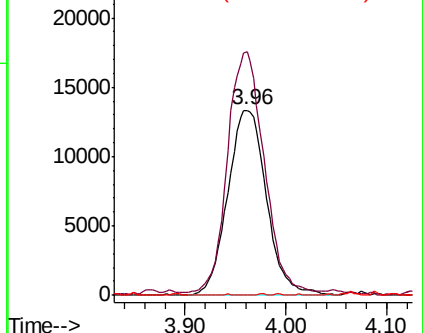
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV013751.D (-798) (-)

Ion 61.05 (60.75 to 61.75): VV013751.D (-798) (-)

Ion 68.15 (67.85 to 68.85): VV013751.D (-798) (-)



#25

Chloroform

Concen: 0.201 ug/L

RT: 4.42 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VV013751.D

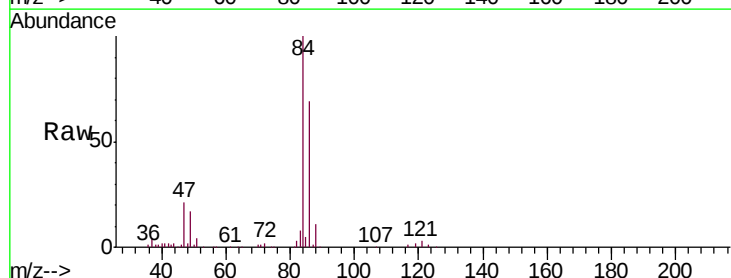
Acq: 22 Nov 2019 22:12

Tgt Ion: 83 Resp: 7569

Ion Ratio Lower Upper

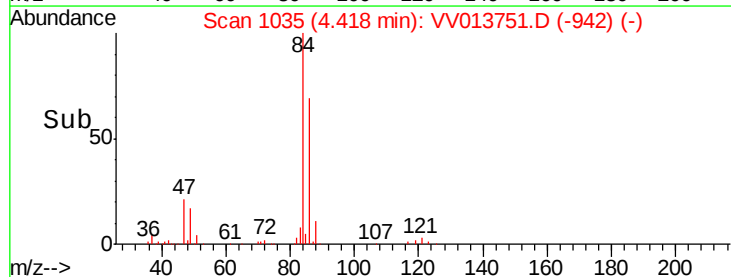
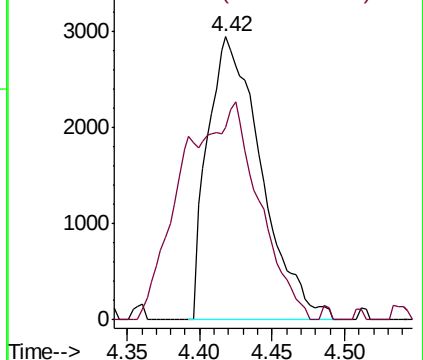
83 100

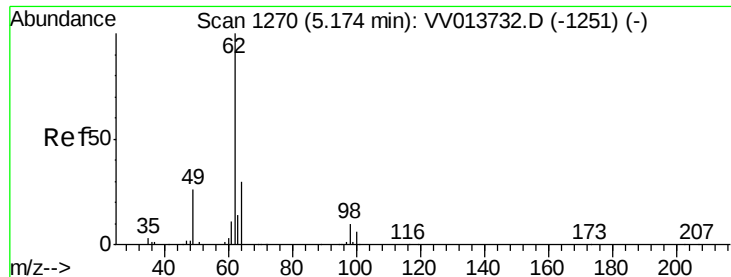
85 67.9 45.1 83.7



Abundance Ion 83.05 (82.75 to 83.75): VV013751.D (-942) (-)

Ion 85.00 (84.70 to 85.70): VV013751.D (-942) (-)





#27

1,2-Dichloroethane

Concen: 0.673 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

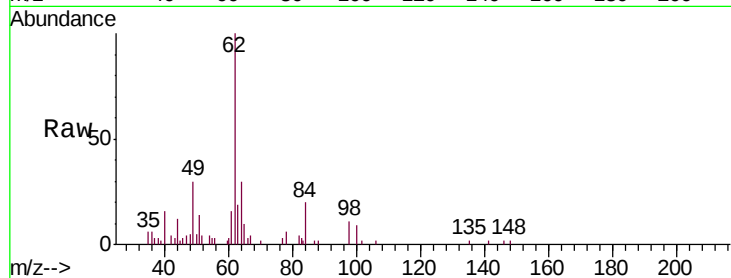
B0AD1

Tgt Ion: 62 Resp: 14476

Ion Ratio Lower Upper

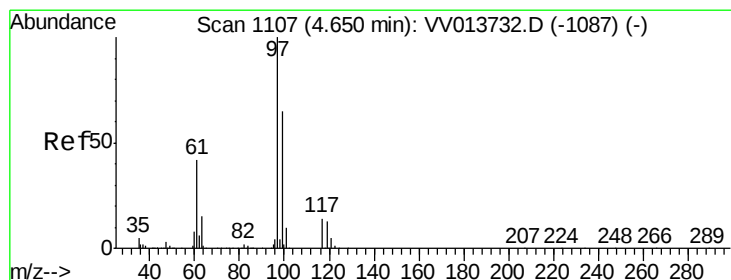
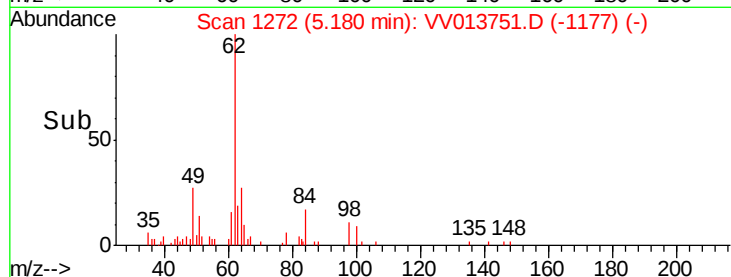
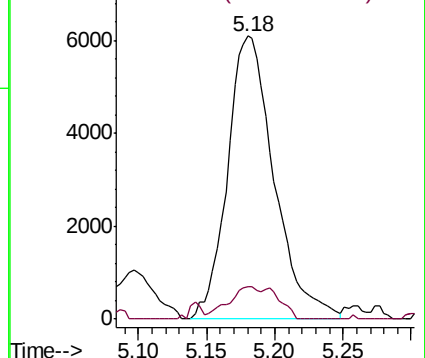
62 100

98 11.4 8.2 12.2



Abundance Ion 62.00 (61.70 to 62.70): VV013732.D (-1251) (-)

Ion 98.05 (97.75 to 98.75): VV013732.D (-1251) (-)



#29

1,1,1-Trichloroethane

Concen: 2.253 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

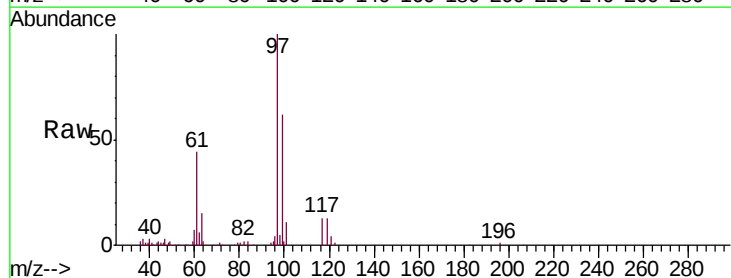
Tgt Ion: 97 Resp: 73070

Ion Ratio Lower Upper

97 100

99 66.0 51.7 77.5

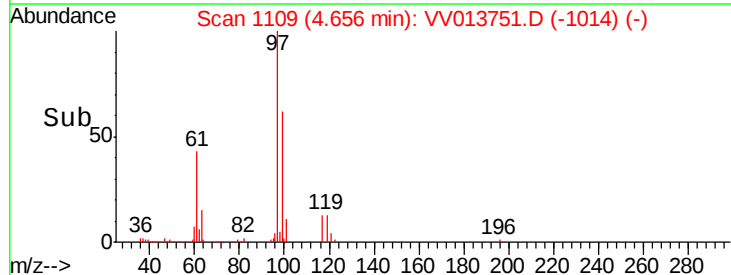
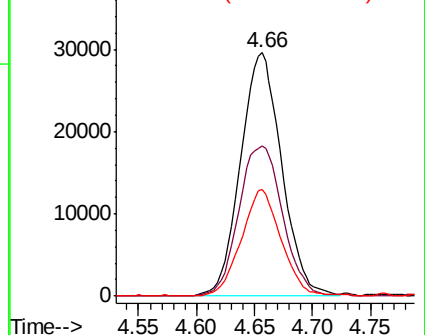
61 42.4 35.0 52.6

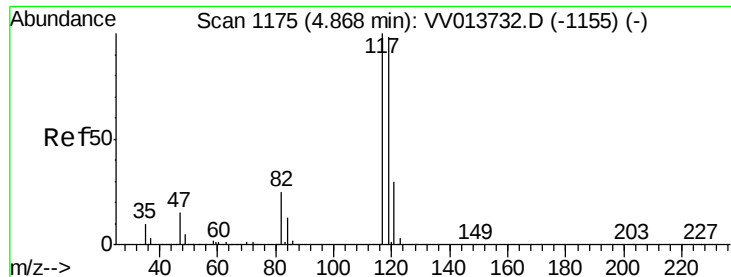


Abundance Ion 96.95 (96.65 to 97.65): VV013732.D (-1087) (-)

Ion 99.05 (98.75 to 99.75): VV013732.D (-1087) (-)

Ion 61.05 (60.75 to 61.75): VV013732.D (-1087) (-)





#31

Carbon tetrachloride

Concen: 0.354 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.22 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

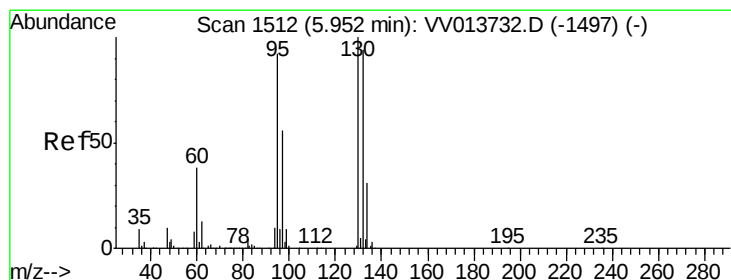
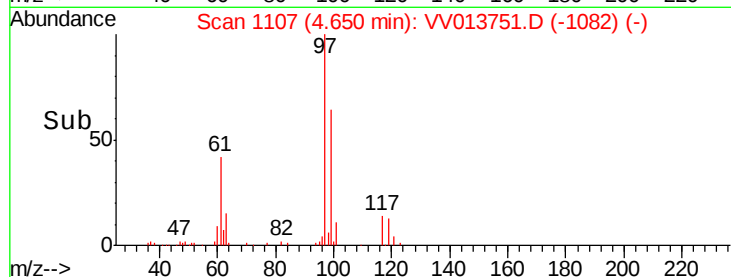
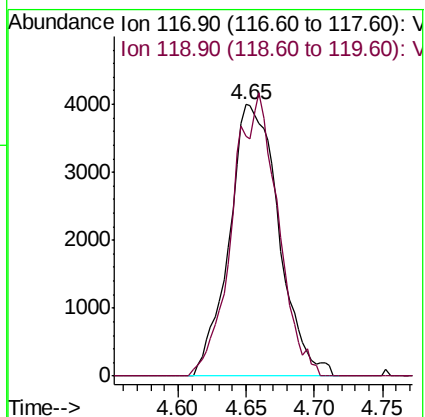
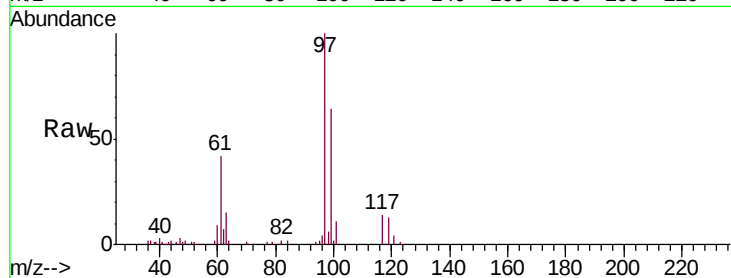
B0AD1

Tgt Ion:117 Resp: 10089

Ion Ratio Lower Upper

117 100

119 95.7 76.8 115.2



#34

Trichloroethene

Concen: 36.180 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Tgt Ion: 95 Resp: 776094

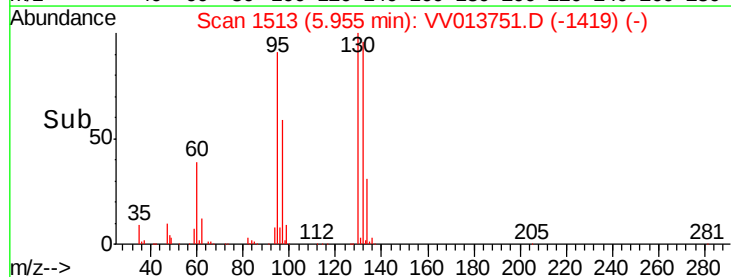
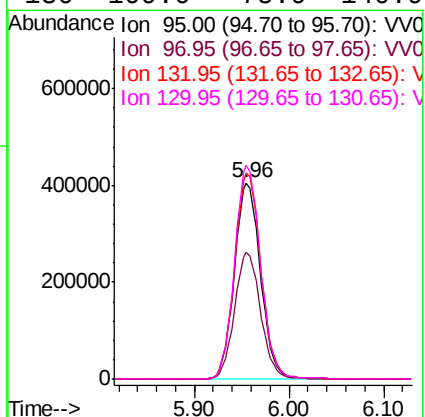
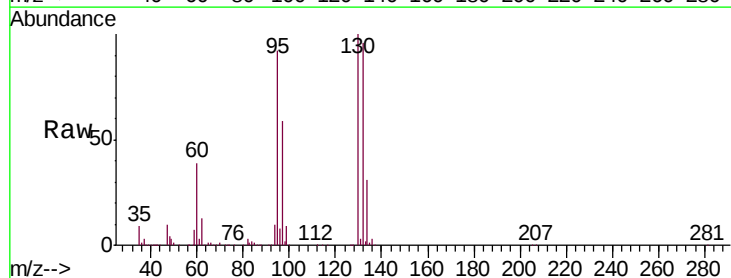
Ion Ratio Lower Upper

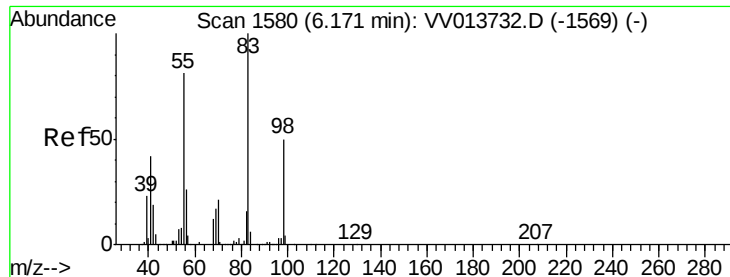
95 100

97 64.4 45.6 84.8

132 105.0 70.5 130.9

130 109.0 75.9 140.9

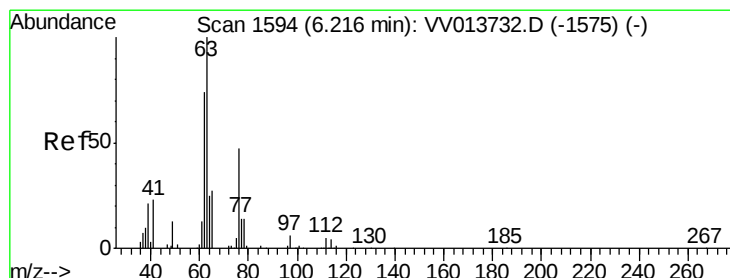
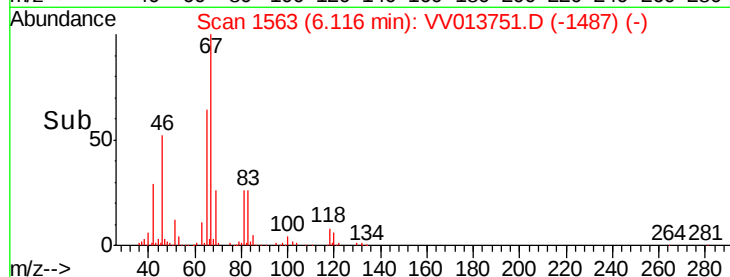
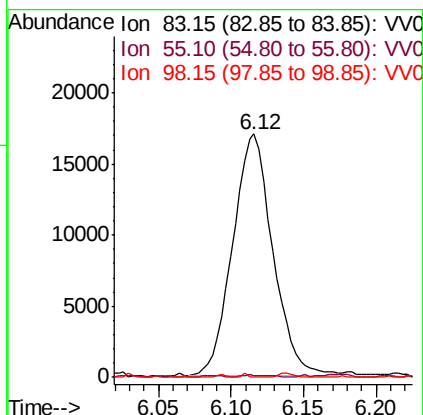
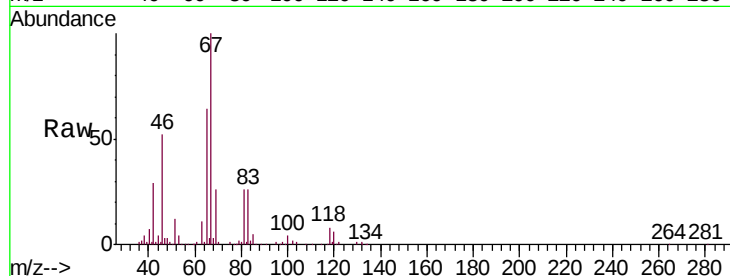




#35
Methylcyclohexane
Concen: 1.147 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.05 min
Lab File: VV013751.D
Acq: 22 Nov 2019 22:12

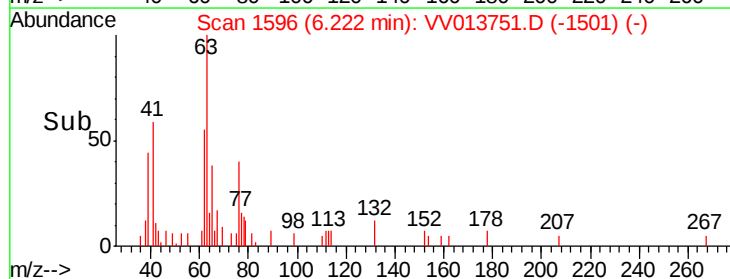
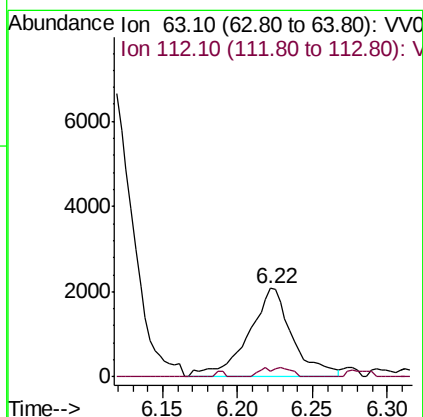
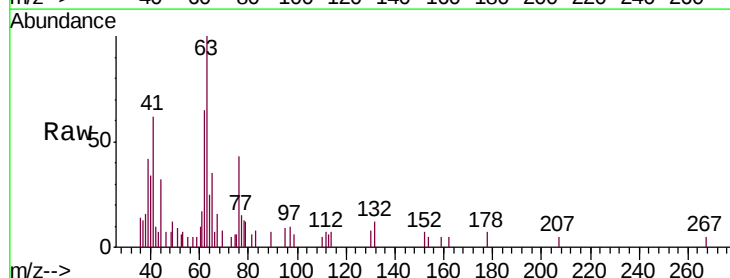
Instrument :
MSVOA_V
ClientSampleId :
B0AD1

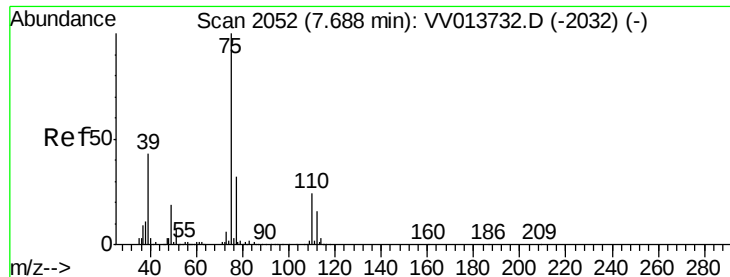
Tgt Ion: 83 Resp: 32816
Ion Ratio Lower Upper
83 100
55 0.4 60.3 90.5#
98 0.0 38.1 57.1#



#37
1,2-Dichloropropane
Concen: 0.213 ug/L
RT: 6.22 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VV013751.D
Acq: 22 Nov 2019 22:12

Tgt Ion: 63 Resp: 4260
Ion Ratio Lower Upper
63 100
112 2.8 4.4 6.6#





#44

trans-1,3-Dichloropropene

Concen: 0.084 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

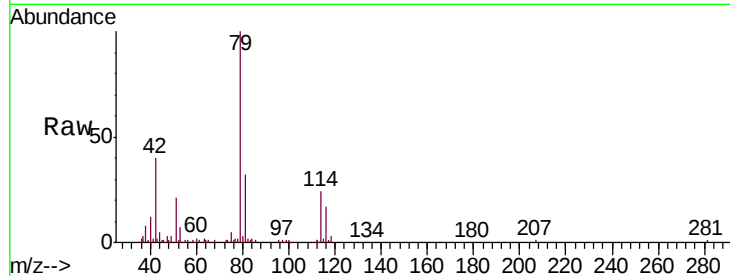
B0AD1

Tgt Ion: 75 Resp: 1875

Ion Ratio Lower Upper

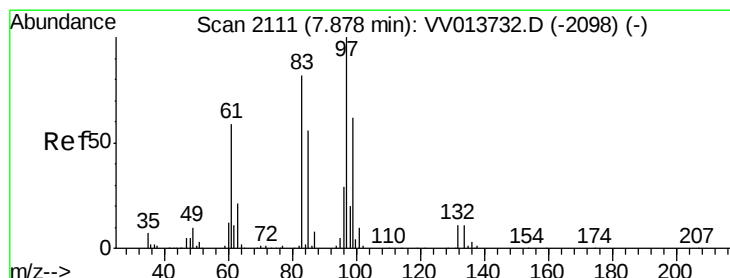
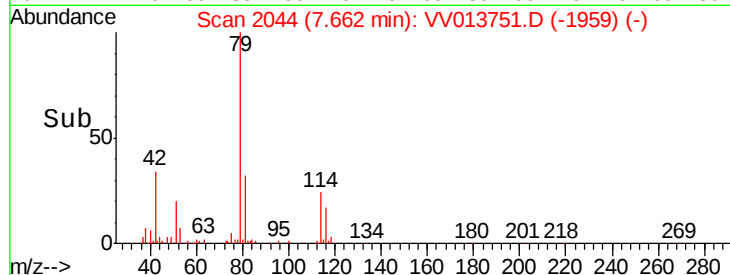
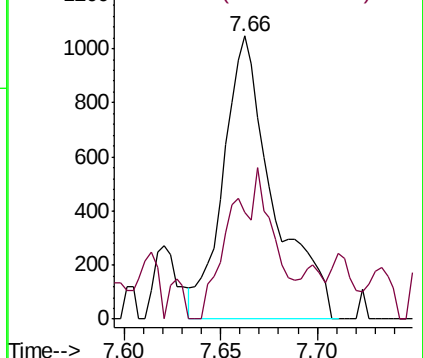
75 100

77 37.6 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#45

1,1,2-Trichloroethane

Concen: 0.455 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Tgt Ion: 97 Resp: 6481

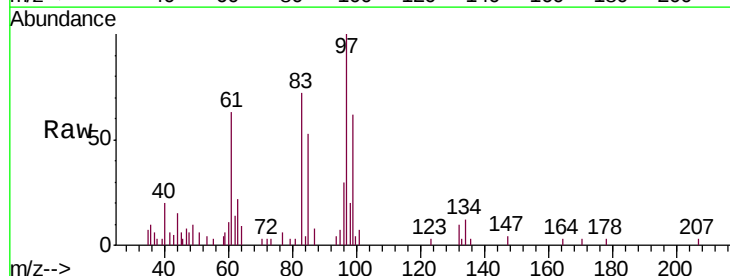
Ion Ratio Lower Upper

97 100

99 62.2 44.2 82.0

83 71.5 59.7 110.9

85 52.8 38.3 71.1

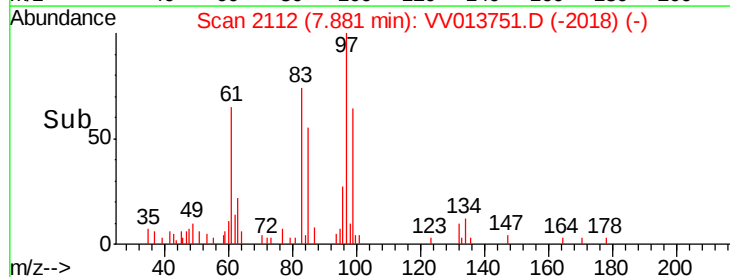
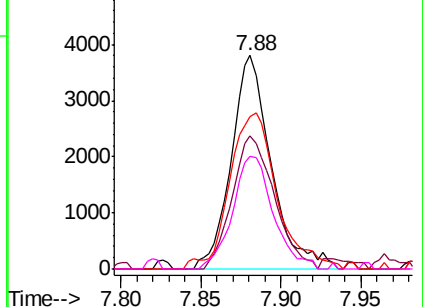


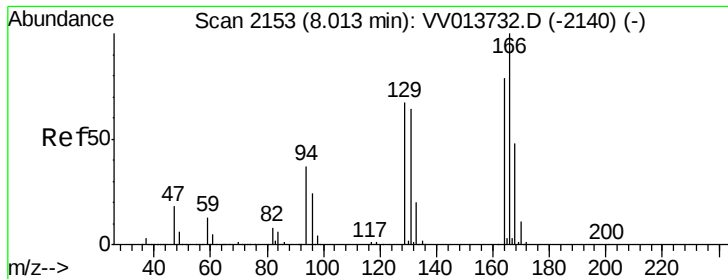
Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0





#47

Tetrachloroethene

Concen: 0.664 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.01 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

B0AD1

Tgt Ion:164 Resp: 12362

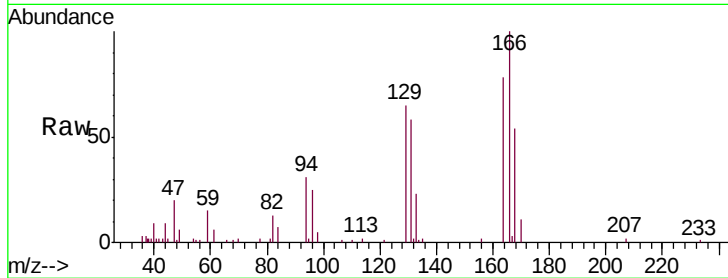
Ion Ratio Lower Upper

164 100

129 82.3 60.3 112.1

131 74.0 59.9 111.3

166 127.5 89.1 165.5



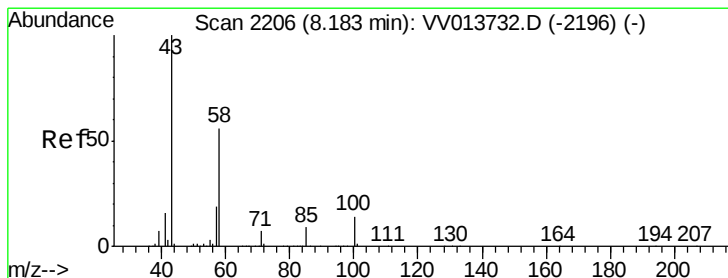
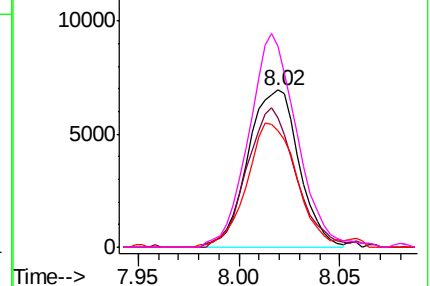
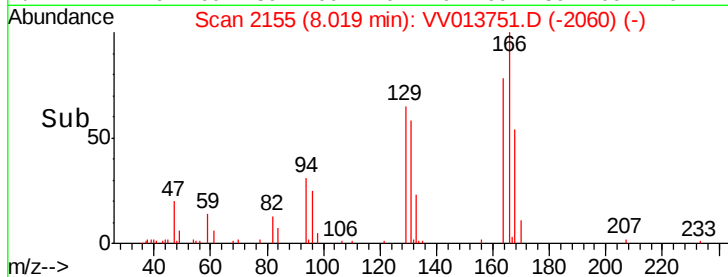
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.961 ug/L

RT: 8.13 min Scan# 2189

Delta R.T. -0.05 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Tgt Ion: 43 Resp: 24643

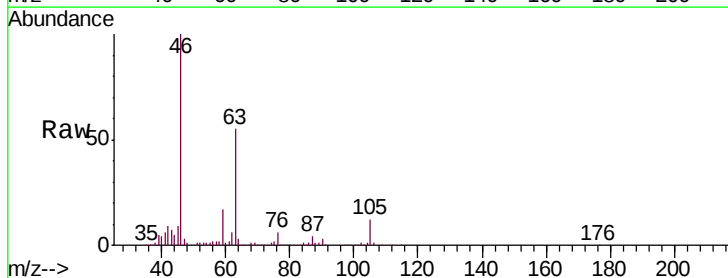
Ion Ratio Lower Upper

43 100

58 42.8 43.2 64.8#

57 34.8 15.4 23.2#

100 3.2 10.4 15.6#



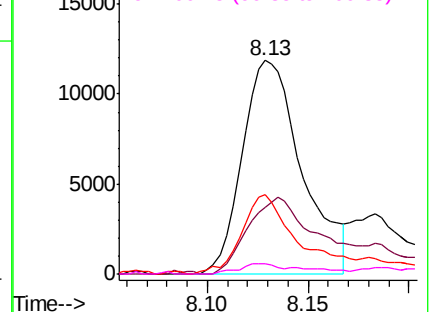
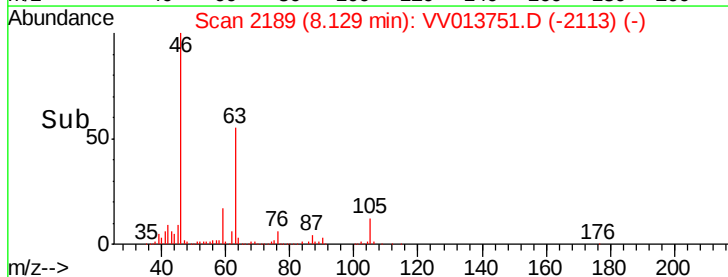
Abundance

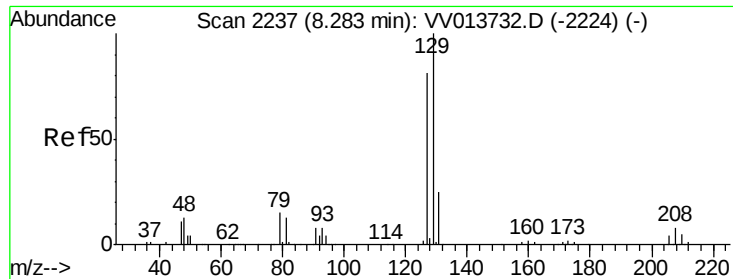
Ion 43.05 (42.75 to 43.75): VV0

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





#49

Dibromochloromethane

Concen: 0.524 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

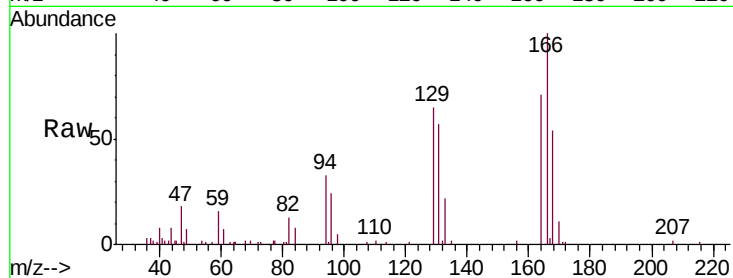
B0AD1

Tgt Ion:129 Resp: 9581

Ion Ratio Lower Upper

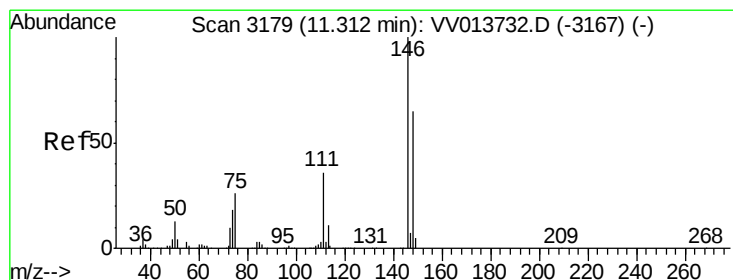
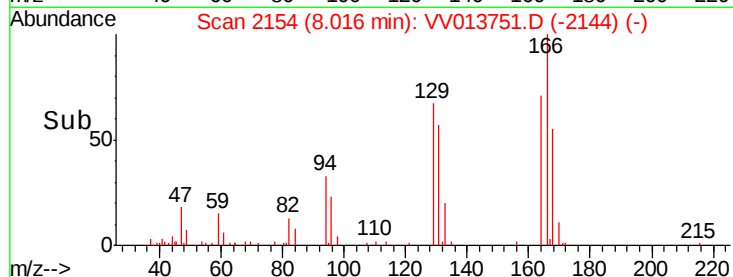
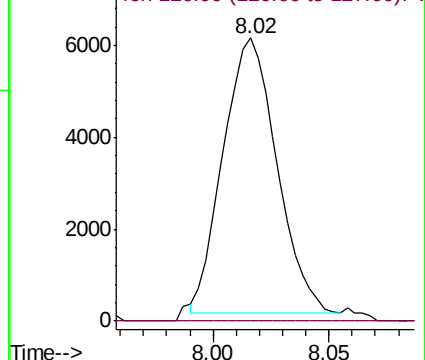
129 100

127 0.0 55.7 103.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#63

1,4-Dichlorobenzene

Concen: 0.125 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

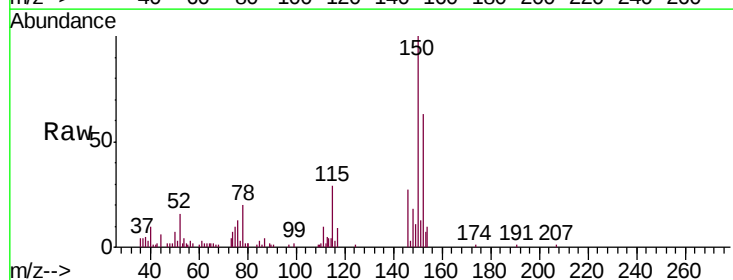
Tgt Ion:146 Resp: 5312

Ion Ratio Lower Upper

146 100

111 37.5 25.0 46.4

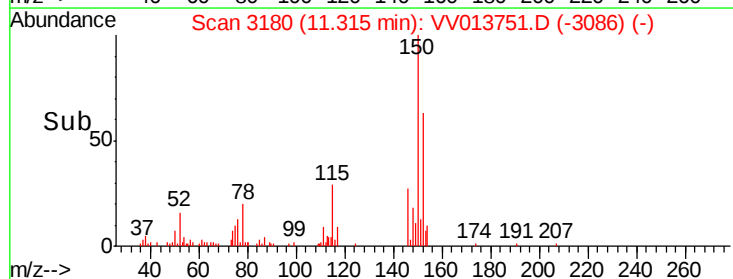
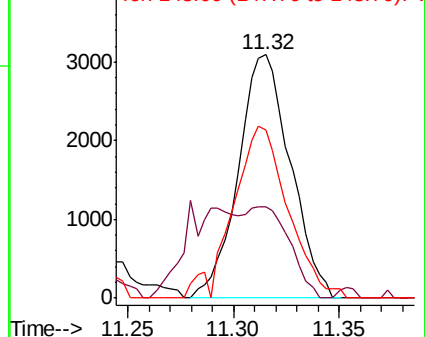
148 69.2 45.4 84.2

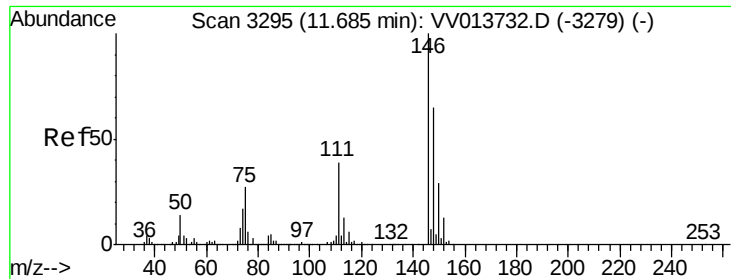


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65
 1,2-Dichlorobenzene
 Concen: 0.138 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV013751.D
 Acq: 22 Nov 2019 22:12

Instrument :
 MSVOA_V
 ClientSampleId :
 B0AD1

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.2	31.3	46.9
148	57.9	52.2	78.2

