

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV083019\
 Data File : VV012482.D
 Acq On : 31 Aug 2019 06:25
 Operator : SY/MD
 Sample : K4607-07
 Misc : 25mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 31 12:30:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 31 12:27:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	216281	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	232505	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	133205	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	58687	3.04	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.80%
7) Chloroethane-d5	1.58	69	50066	3.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.80%
11) 1,1-Dichloroethene-d2	2.12	63	77506	2.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	49.00%#
20) 2-Butanone-d5	4.01	46	119137	30.32	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	60.64%
24) Chloroform-d	4.40	84	118576	3.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.60%
26) 1,2-Dichloroethane-d4	5.08	65	59325	3.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.80%
32) Benzene-d6	5.09	84	223412	3.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	64.40%#
36) 1,2-Dichloropropane-d6	6.12	67	76553	3.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	69.40%
41) Toluene-d8	7.36	98	184853	2.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	59.00%#
43) trans-1,3-Dichloropropene-	7.66	79	24259	3.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	62.20%
46) 2-Hexanone-d5	8.14	63	113263	37.00	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	74.00%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	56540	3.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	72.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	82207	3.17	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	63.40%#

Target Compounds

					Ovalue
12) 1,1-Dichloroethene	2.14	96	5576	0.340 ug/L #	1
13) Acetone	2.28	43	11909	4.148 ug/L	67
14) Carbon disulfide	2.31	76	34228	0.683 ug/L	100
15) Methyl Acetate	2.50	43	1742	0.246 ug/L	92
18) trans-1,2-Dichloroethene	2.78	96	7103	0.338 ug/L	94
19) 1,1-Dichloroethane	3.22	63	55593	1.353 ug/L	99
22) cis-1,2-Dichloroethene	3.95	96	4358089	198.312 ug/L #	94
25) Chloroform	4.42	83	6491	0.151 ug/L	100
29) 1,1,1-Trichloroethane	4.65	97	130773	3.472 ug/L	98
31) Carbon tetrachloride	4.64	117	17063	0.515 ug/L	100
34) Trichloroethene	5.96	95	14656261	597.667 ug/L	95
35) Methylcyclohexane	6.12	83	18565	0.498 ug/L #	16
37) 1,2-Dichloropropane	6.12	63	8281	0.330 ug/L #	88
42) Toluene	7.43	91	173947	1.766 ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	3073	0.185 ug/L	92
47) Tetrachloroethene	8.01	164	235836	12.013 ug/L	99
48) 2-Hexanone	8.20	43	8277	0.854 ug/L #	94

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MSVOA_V
ClientSampleId :

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Aug 31 12:27:36 2019
Response via : Initial Calibration

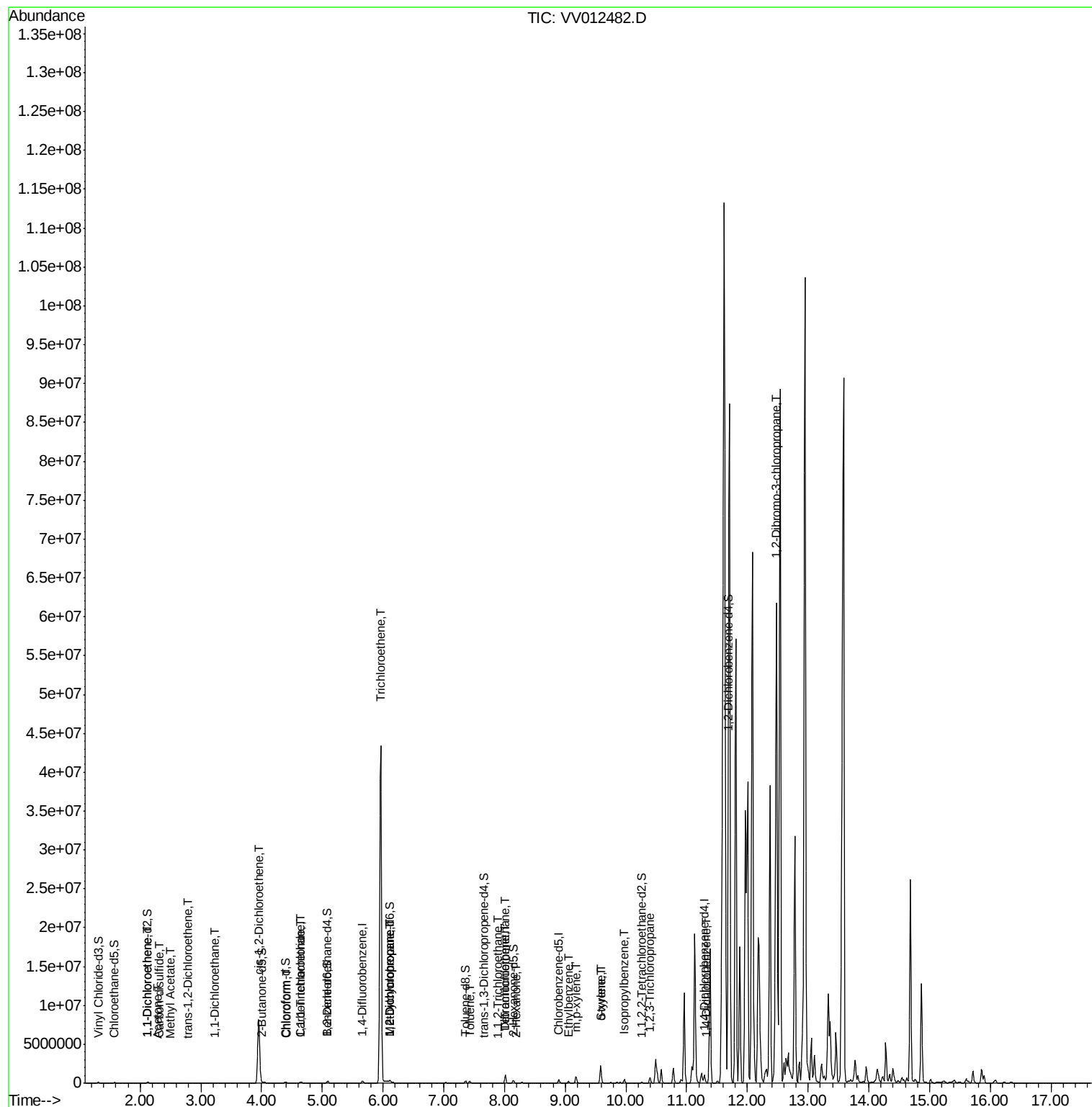
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.01	129	200174	10.441	ug/L #	11
52) Ethylbenzene	9.05	91	141185	1.356	ug/L	97
53) m,p-xylene	9.18	106	222124	5.820	ug/L	99
54) o-xylene	9.59	106	594119	15.944	ug/L	96
55) Styrene	9.58	104	32563	0.521	ug/L #	1
56) Isopropylbenzene	9.97	105	315563	3.216	ug/L	99
59) 1,2,3-Trichloropropane	10.40	75	3560	0.255	ug/L #	1
63) 1,4-Dichlorobenzene	11.32	146	5777	0.103	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.48	75	369946	104.570	ug/L #	1

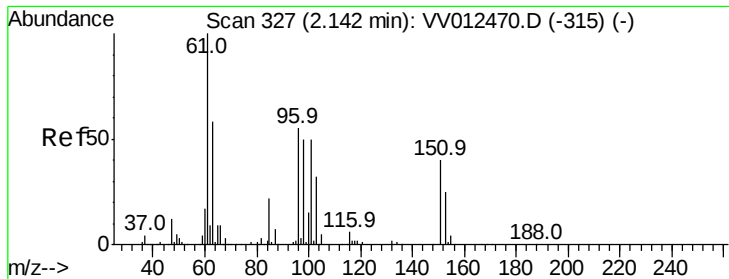
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.340 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV012482.D

Acq: 31 Aug 2019 06:25

Instrument :

MSVOA_V

ClientSampled :

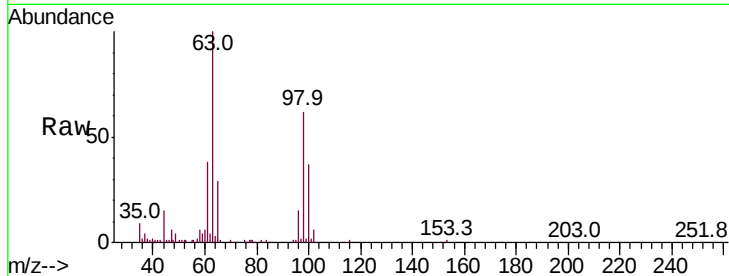
Tot Ion: 96 Resp: 5576

Ion Ratio Lower Upper

96 100

61 253.8 127.8 237.4#

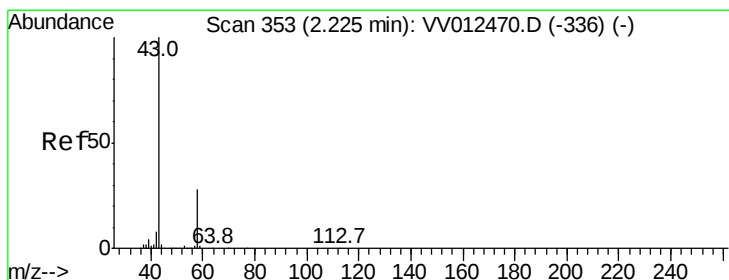
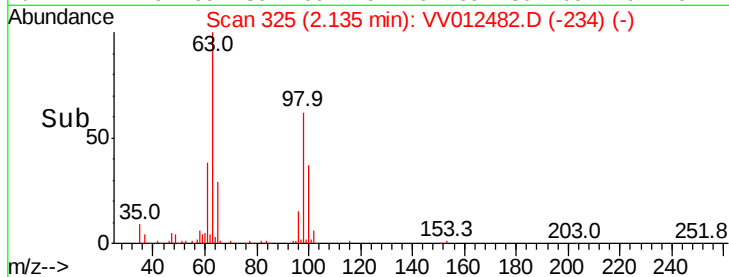
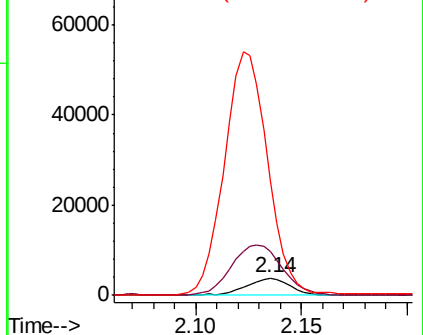
63 671.5 78.2 145.2#



Abundance Ion 96.00 (95.70 to 96.70): VV012470.D (-315) (-)

Ion 61.05 (60.75 to 61.75): VV012470.D (-315) (-)

Ion 63.00 (62.70 to 63.70): VV012470.D (-315) (-)



#13

Acetone

Concen: 4.148 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.06 min

Lab File: VV012482.D

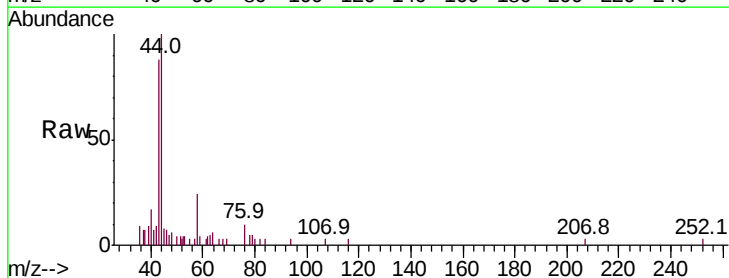
Acq: 31 Aug 2019 06:25

Tgt Ion: 43 Resp: 11909

Ion Ratio Lower Upper

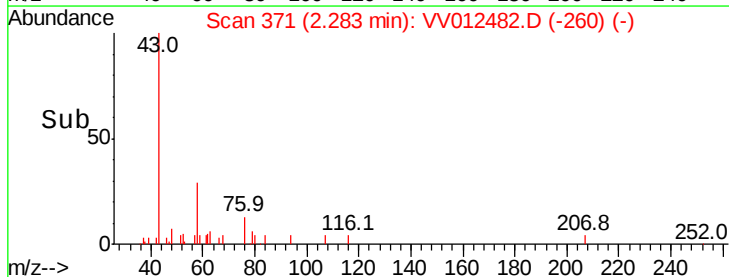
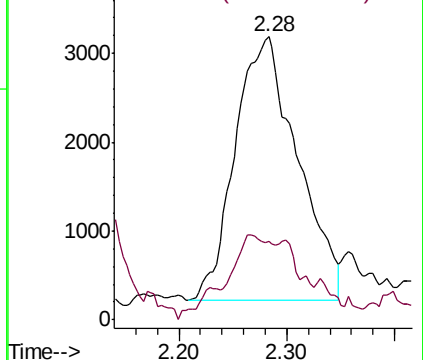
43 100

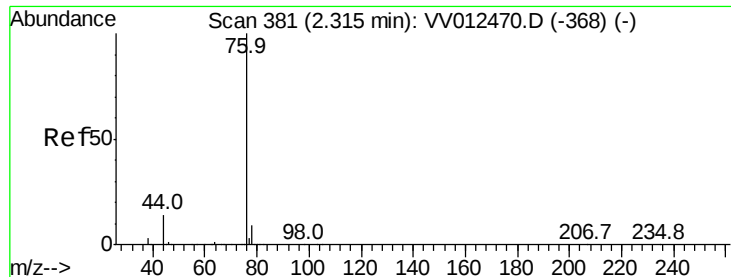
58 11.1 0.0 56.8



Abundance Ion 43.05 (42.75 to 43.75): VV012482.D (-260) (-)

Ion 58.05 (57.75 to 58.75): VV012482.D (-260) (-)





#14

Carbon disulfide

Concen: 0.683 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV012482.D

Acq: 31 Aug 2019 06:25

Instrument :

MSVOA_V

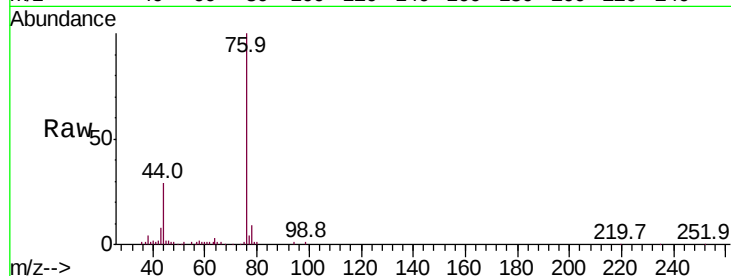
ClientSampleId :

Tot Ion: 76 Resp: 34228

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

25000

20000

15000

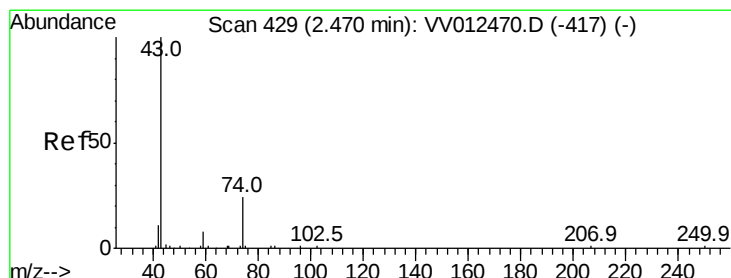
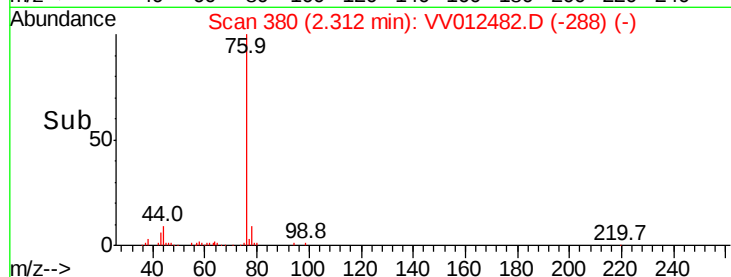
10000

5000

0

2.25 2.30 2.35

Time-->



#15

Methyl Acetate

Concen: 0.246 ug/L

RT: 2.50 min Scan# 438

Delta R.T. 0.03 min

Lab File: VV012482.D

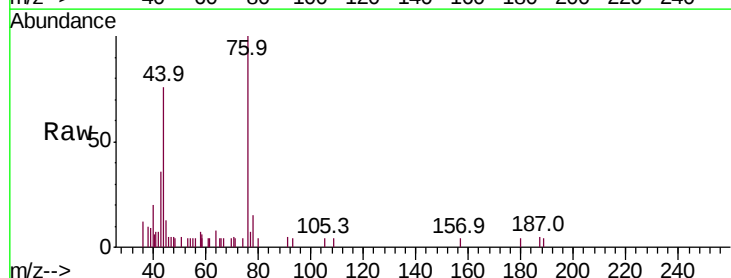
Acq: 31 Aug 2019 06:25

Tgt Ion: 43 Resp: 1742

Ion Ratio Lower Upper

43 100

74 18.9 18.1 27.1



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

1000

800

600

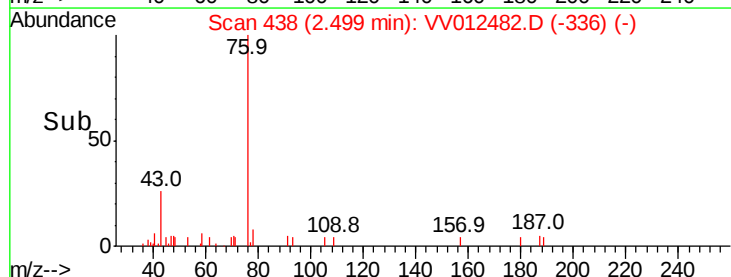
400

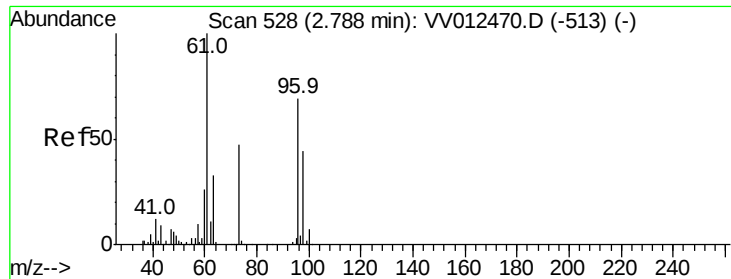
200

0

2.45 2.50

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.338 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.01 min

Lab File: VV012482.D

Acq: 31 Aug 2019 06:25

Instrument :
MSVOA_V
ClientSampleId :

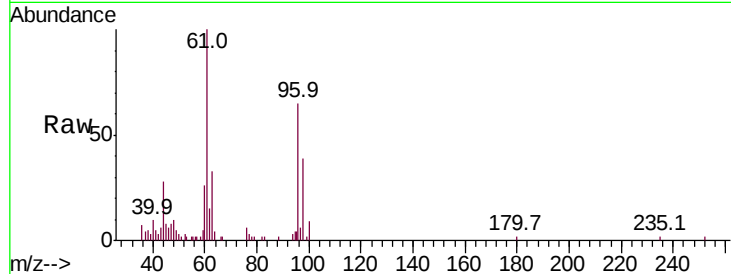
Tot Ion: 96 Resp: 7103

Ion Ratio Lower Upper

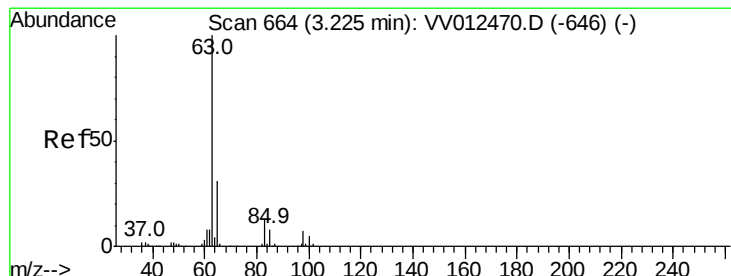
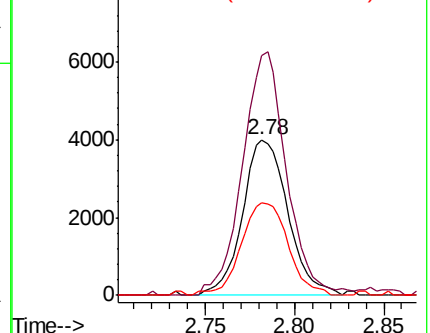
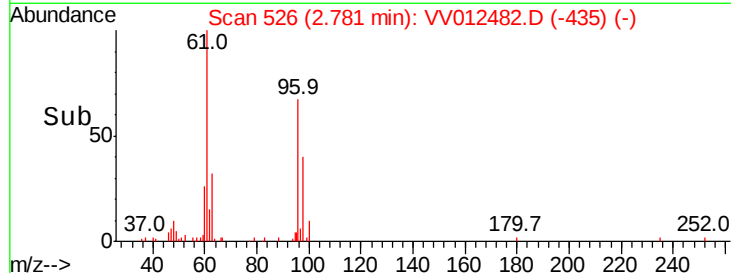
96 100

61 153.5 101.2 188.0

98 59.5 44.1 81.9



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: 1.353 ug/L

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VV012482.D

Acq: 31 Aug 2019 06:25

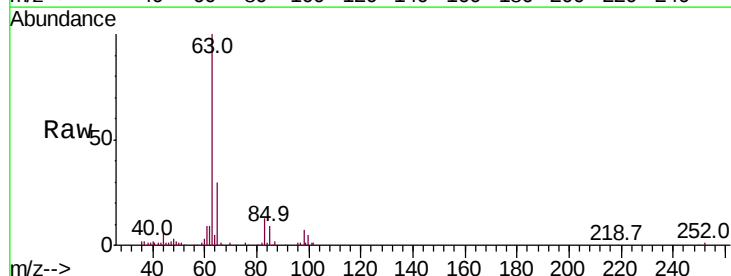
Tgt Ion: 63 Resp: 55593

Ion Ratio Lower Upper

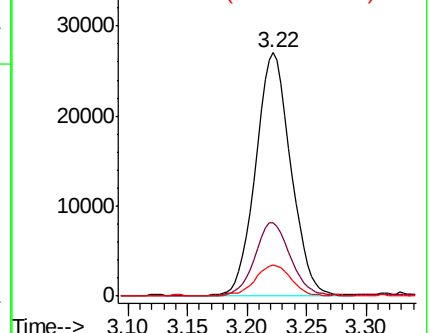
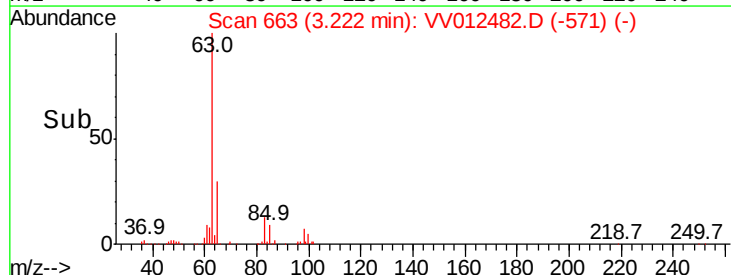
63 100

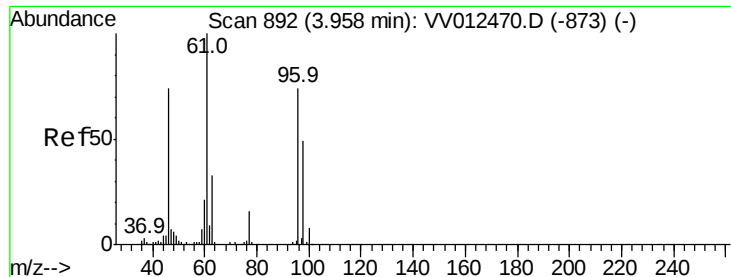
65 30.1 21.6 40.2

83 12.6 9.0 16.8



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: 198.312 ug/L

RT: 3.95 min Scan# 890

Delta R.T. -0.01 min

Lab File: VV012482.D

Acq: 31 Aug 2019 06:25

Instrument :
MSVOA_V
ClientSampleId :

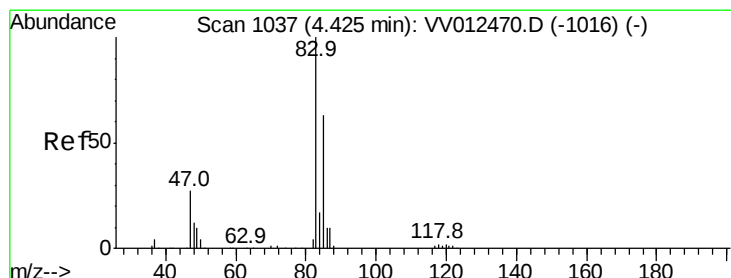
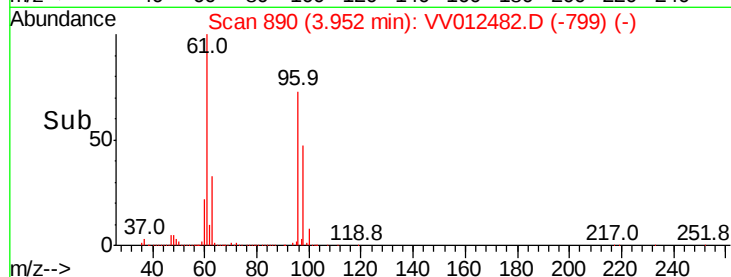
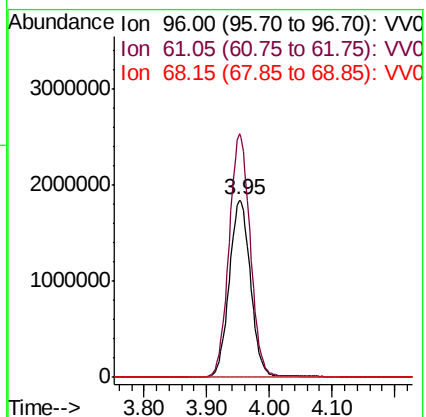
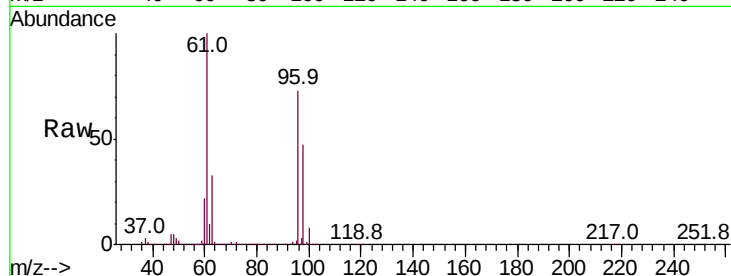
Tot Ion: 96 Resp: 4358089

Ion Ratio Lower Upper

96 100

61 137.4 91.5 169.9

68 0.0 0.0 0.0#



#25

Chloroform

Concen: 0.151 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV012482.D

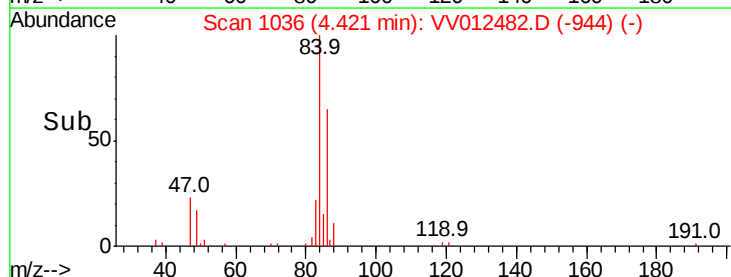
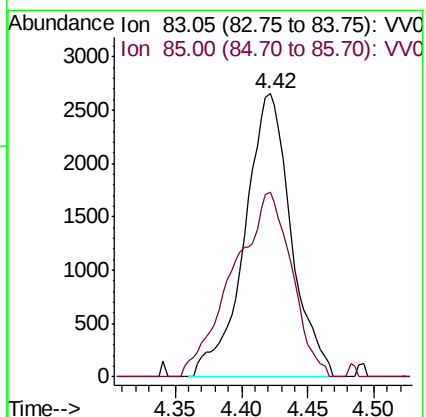
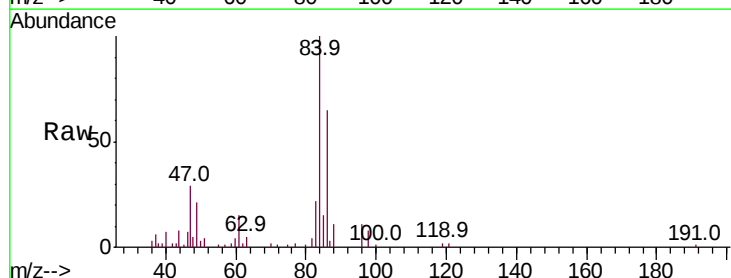
Acq: 31 Aug 2019 06:25

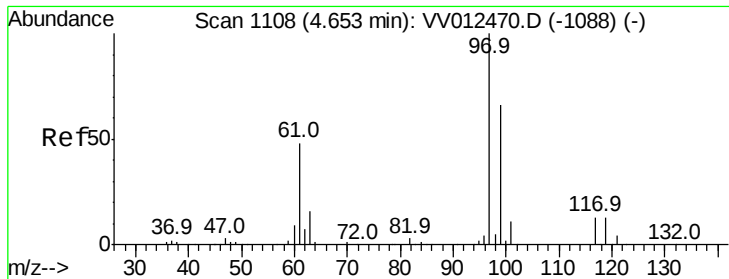
Tgt Ion: 83 Resp: 6491

Ion Ratio Lower Upper

83 100

85 65.1 45.4 84.4

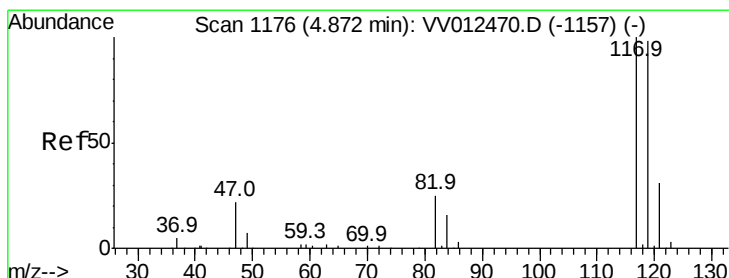
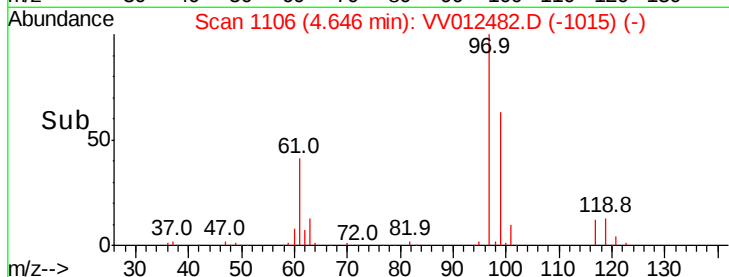
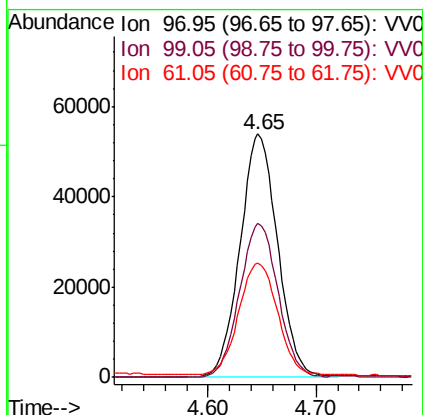
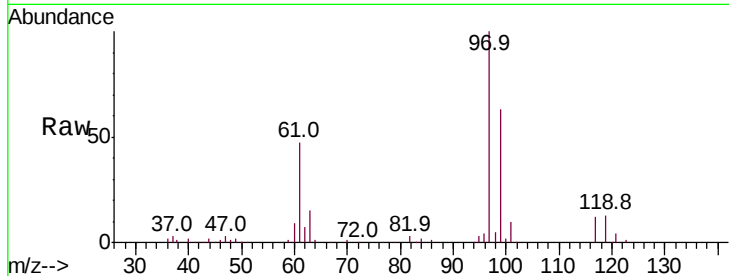




#29
 1,1,1-Trichloroethane
 Concen: 3.472 ug/L
 RT: 4.65 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: VV012482.D
 Acq: 31 Aug 2019 06:25

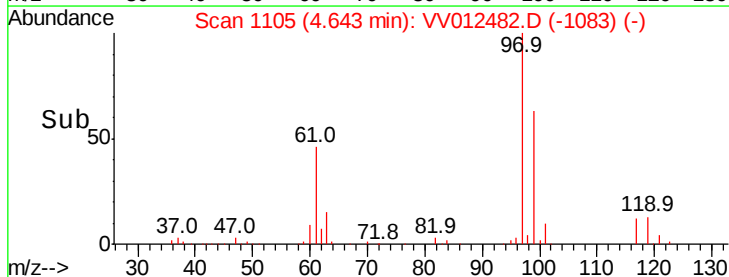
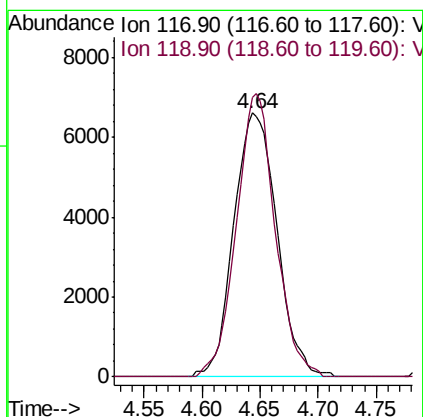
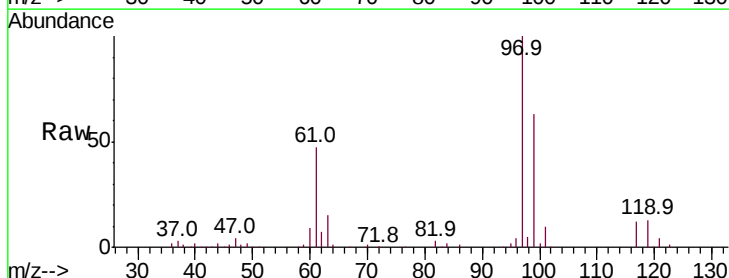
Instrument :
 MSVOA_V
 ClientSampleId :

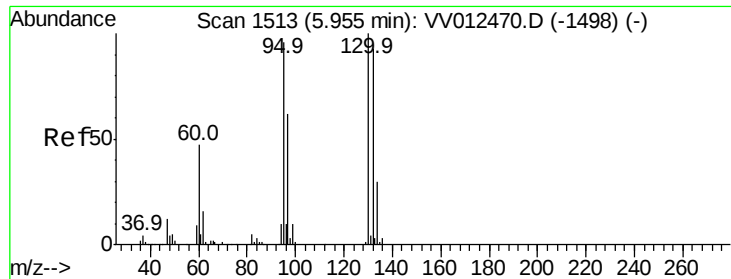
Tot Ion: 97 Resp: 130773
 Ion Ratio Lower Upper
 97 100
 99 64.5 49.8 74.6
 61 46.9 36.7 55.1



#31
 Carbon tetrachloride
 Concen: 0.515 ug/L
 RT: 4.64 min Scan# 1105
 Delta R.T. -0.23 min
 Lab File: VV012482.D
 Acq: 31 Aug 2019 06:25

Tgt Ion: 117 Resp: 17063
 Ion Ratio Lower Upper
 117 100
 119 97.1 77.8 116.8

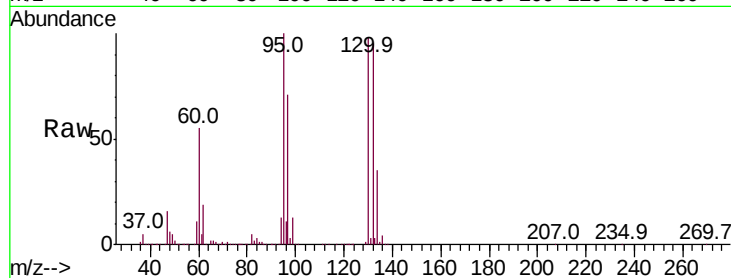




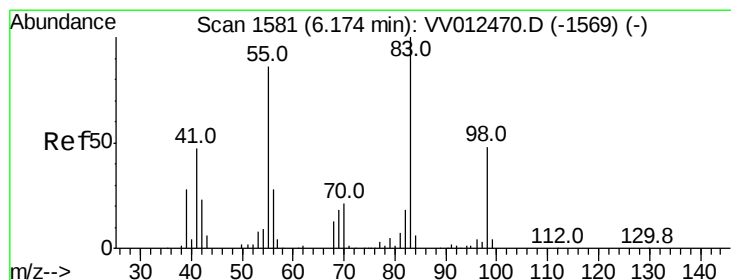
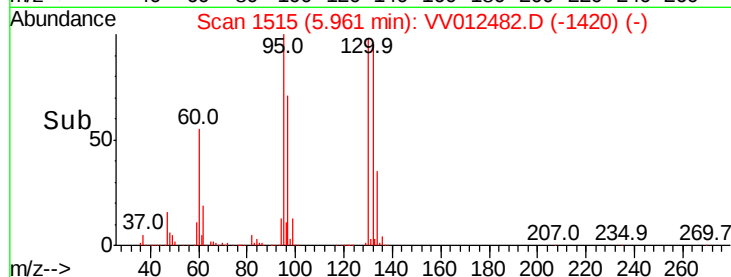
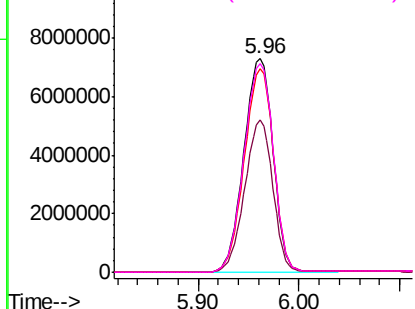
#34
 Trichloroethene
 Concen: 597.667 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.01 min
 Lab File: VV012482.D
 Acq: 31 Aug 2019 06:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp:14656261
 Ion Ratio Lower Upper
 95 100
 97 71.1 45.8 85.2
 132 95.2 68.3 126.9
 130 97.7 72.0 133.8

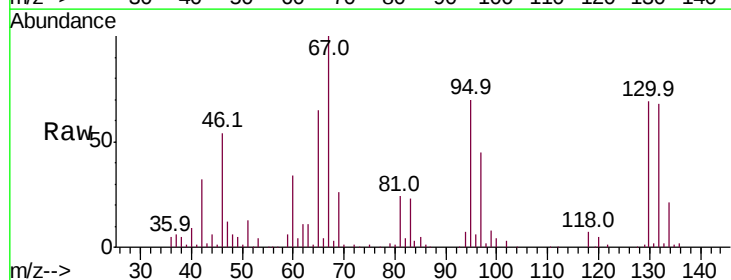


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

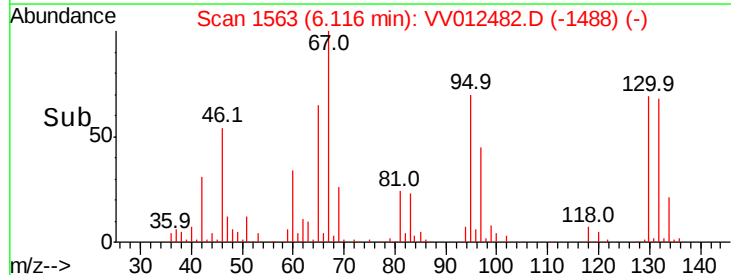
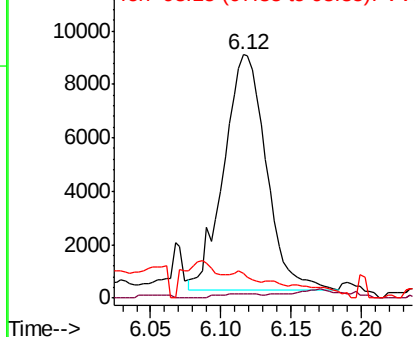


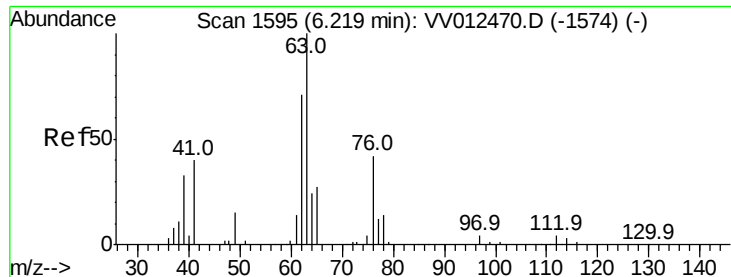
#35
 Methylcyclohexane
 Concen: 0.498 ug/L
 RT: 6.12 min Scan# 1563
 Delta R.T. -0.06 min
 Lab File: VV012482.D
 Acq: 31 Aug 2019 06:25

Tgt Ion: 83 Resp: 18565
 Ion Ratio Lower Upper
 83 100
 55 1.1 67.8 101.6#
 98 0.0 39.2 58.8#



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: 0.330 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.10 min

Lab File: VV012482.D

Acq: 31 Aug 2019 06:25

Instrument :

MSVOA_V

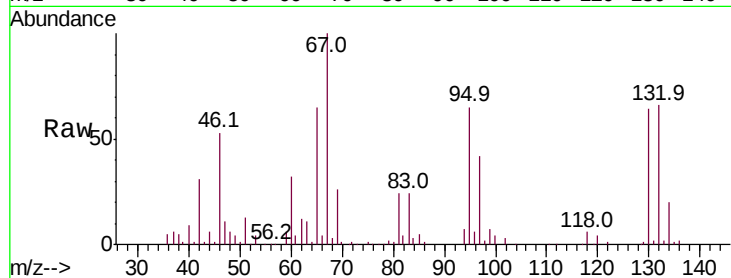
ClientSampleId :

Tot Ion: 63 Resp: 8281

Ion Ratio Lower Upper

63 100

112 0.8 3.7 5.5#

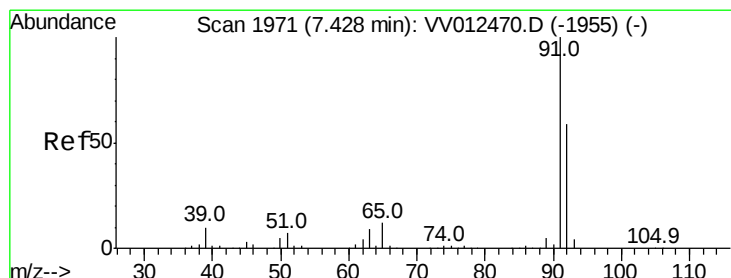
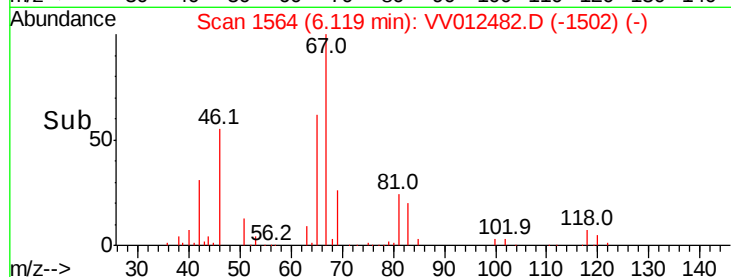


Abundance Ion 63.10 (62.80 to 63.80): VV012470.D (-1574) (-)

Ion 112.10 (111.80 to 112.80): VV012470.D (-1574) (-)

6.12

Time-->



#42

Toluene

Concen: 1.766 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV012482.D

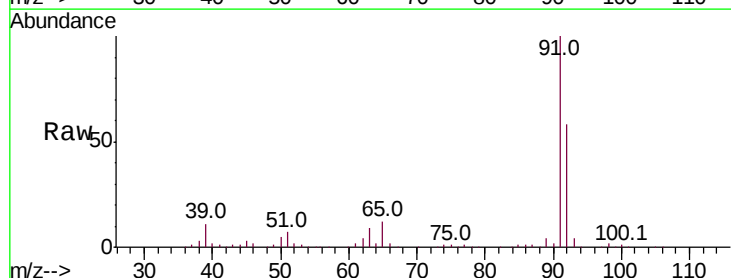
Acq: 31 Aug 2019 06:25

Tgt Ion: 91 Resp: 173947

Ion Ratio Lower Upper

91 100

92 57.8 41.2 76.6

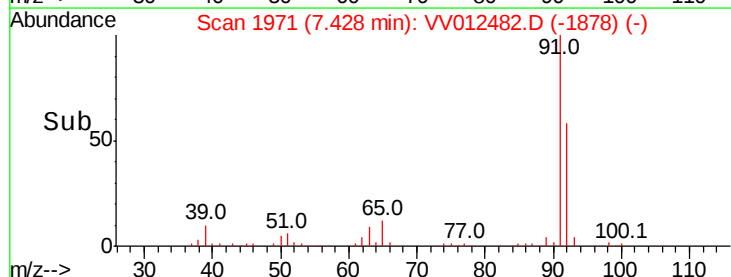


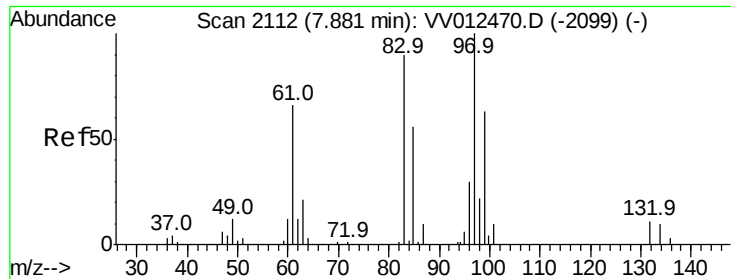
Abundance Ion 91.15 (90.85 to 91.85): VV012470.D (-1955) (-)

Ion 92.15 (91.85 to 92.85): VV012470.D (-1955) (-)

7.43

Time-->

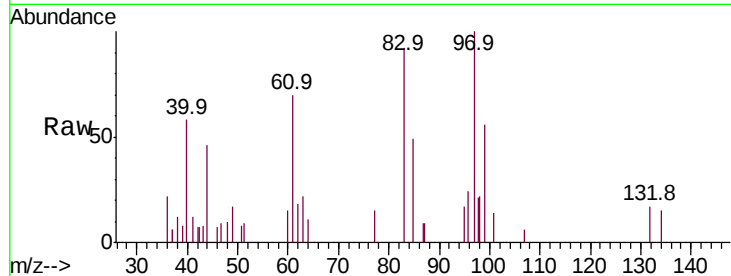




#45
 1,1,2-Trichloroethane
 Concen: 0.185 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV012482.D
 Acq: 31 Aug 2019 06:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	97	Resp:	3073
Ion	Ratio	Lower	Upper
97	100		
99	56.2	43.3	80.3
83	92.2	61.2	113.6
85	48.6	40.0	74.4



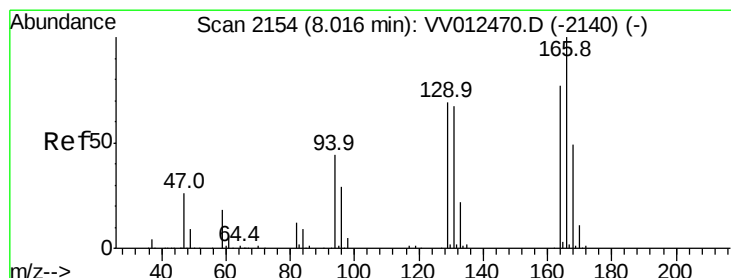
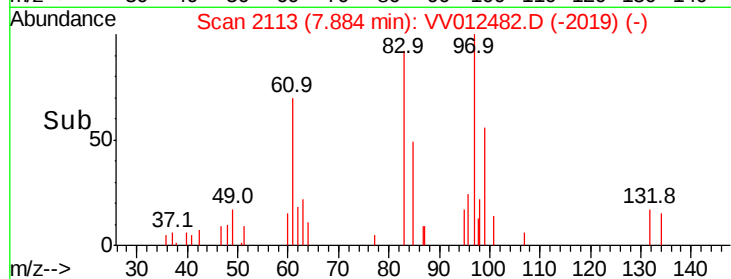
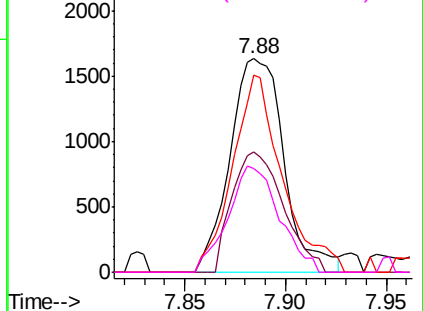
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

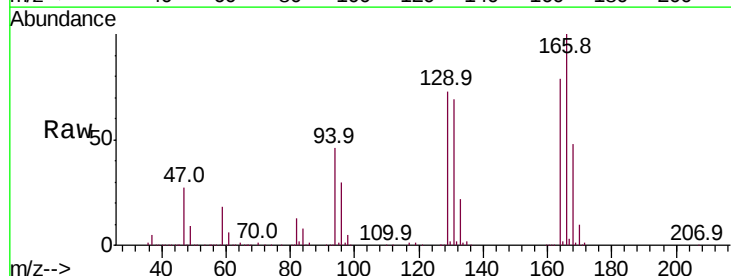
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47
 Tetrachloroethene
 Concen: 12.013 ug/L
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VV012482.D
 Acq: 31 Aug 2019 06:25

Tgt Ion:	164	Resp:	235836
Ion	Ratio	Lower	Upper
164	100		
129	92.4	65.6	121.8
131	87.8	63.3	117.5
166	127.0	89.4	166.0



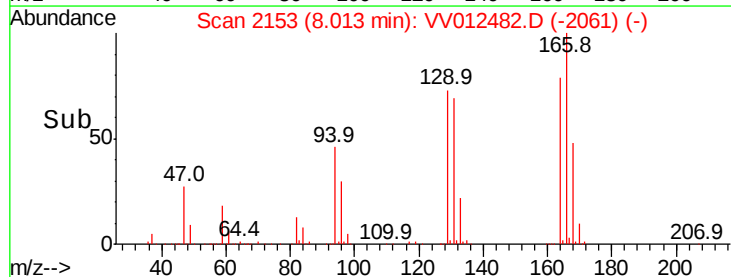
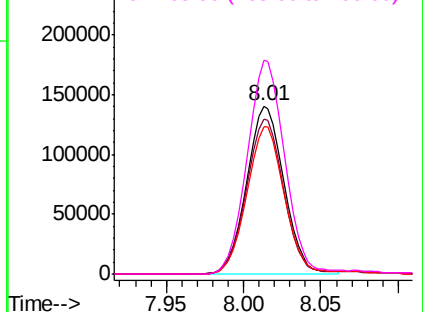
Abundance

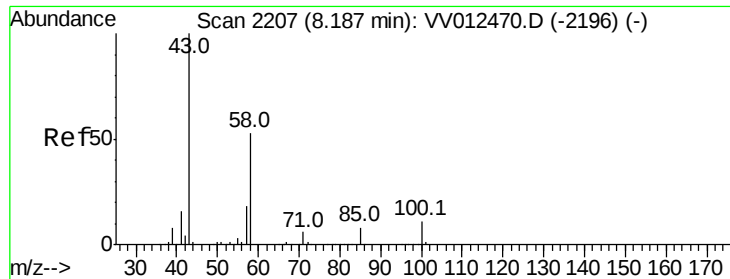
Ion 163.90 (163.60 to 164.60): V

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

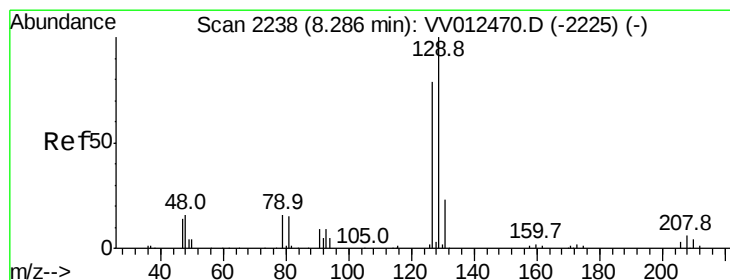
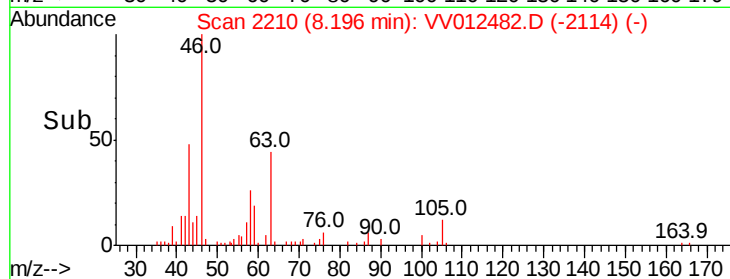
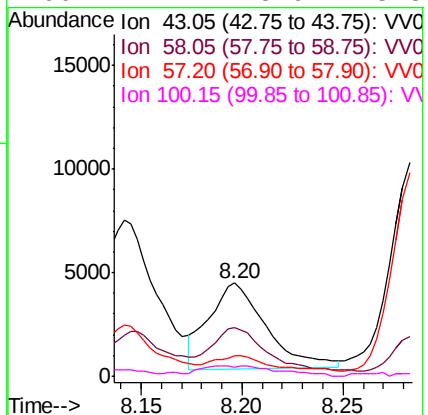
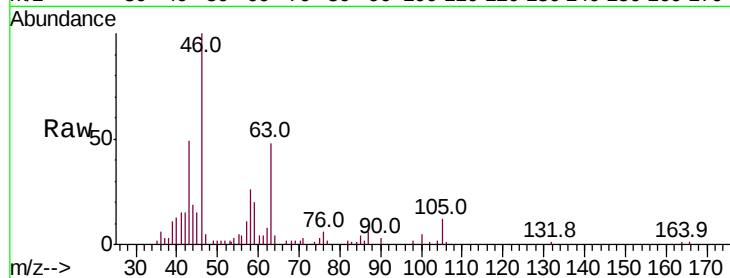




#48
2-Hexanone
Concen: 0.854 ug/L
RT: 8.20 min Scan# 2210
Delta R.T. 0.01 min
Lab File: VV012482.D
Acq: 31 Aug 2019 06:25

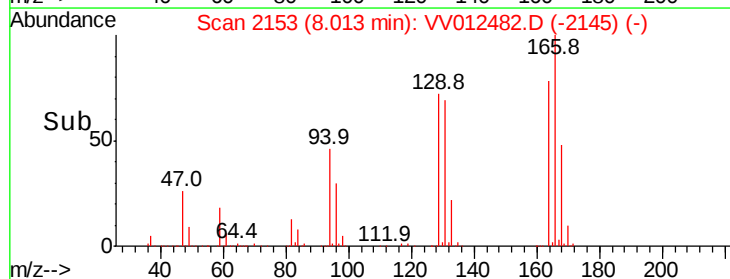
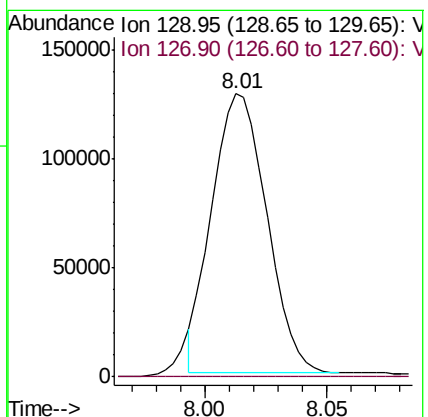
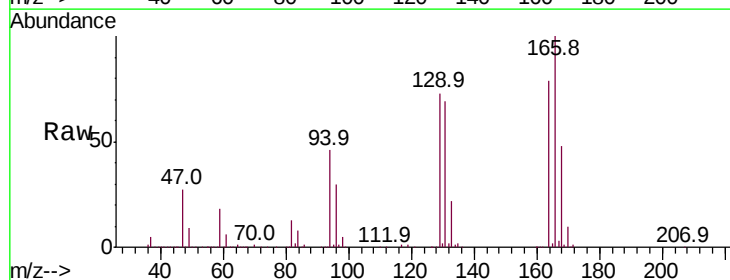
Instrument :
MSVOA_V
ClientSampleId :

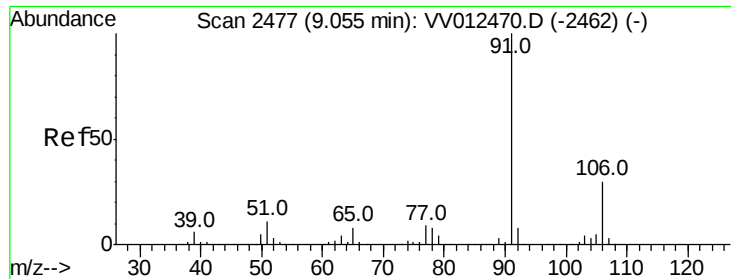
Tot Ion: 43 Resp: 8277
Ion Ratio Lower Upper
43 100
58 56.6 43.6 65.4
57 13.3 14.2 21.2#
100 4.7 8.9 13.3#



#49
Dibromochloromethane
Concen: 10.441 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. -0.27 min
Lab File: VV012482.D
Acq: 31 Aug 2019 06:25

Tgt Ion: 129 Resp: 200174
Ion Ratio Lower Upper
129 100
127 0.1 53.6 99.6#





#52

Ethylbenzene

Concen: 1.356 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV012482.D

Acq: 31 Aug 2019 06:25

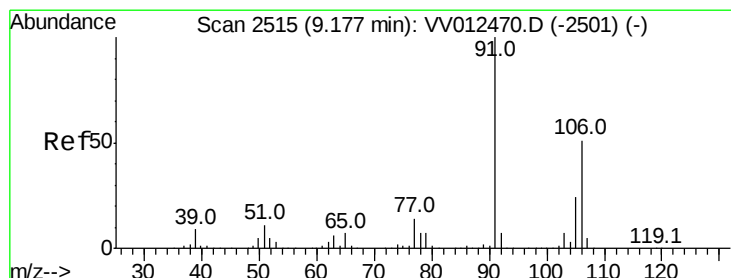
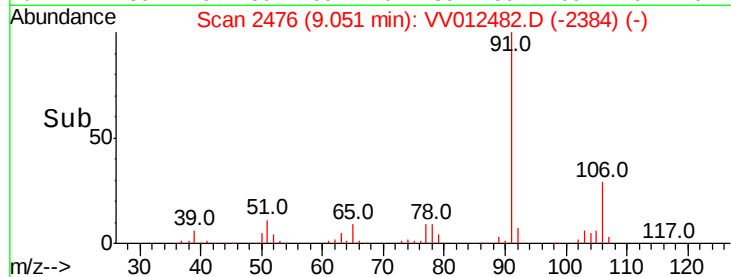
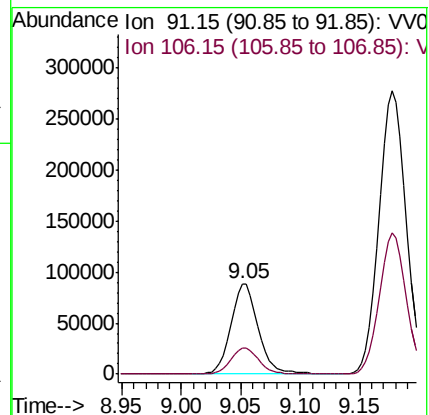
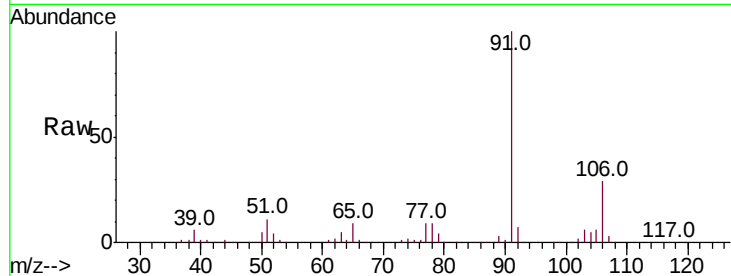
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 141185

Ion Ratio Lower Upper

91 100

106 28.8 21.1 39.3



#53

m,p-xylene

Concen: 5.820 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV012482.D

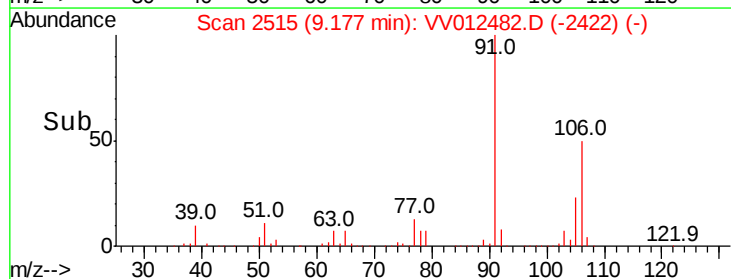
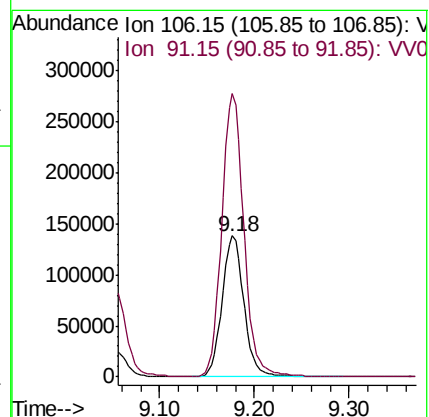
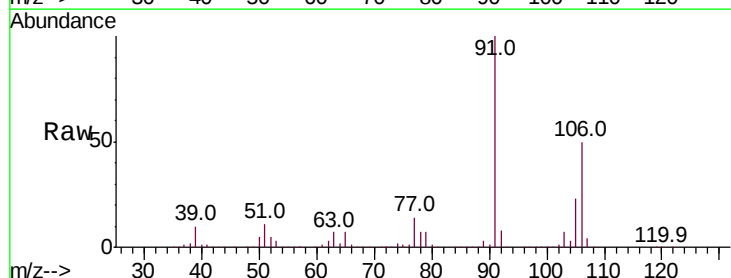
Acq: 31 Aug 2019 06:25

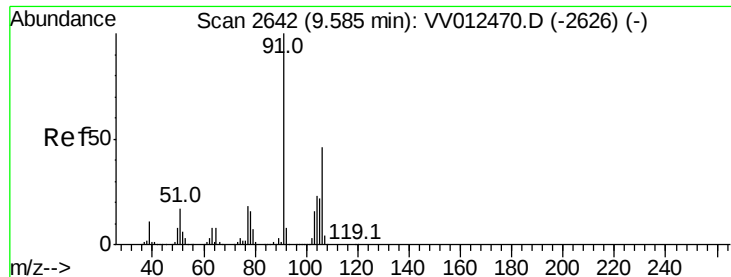
Tgt Ion: 106 Resp: 222124

Ion Ratio Lower Upper

106 100

91 200.6 141.3 262.3





#54

o-xylene

Concen: 15.944 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012482.D

Acq: 31 Aug 2019 06:25

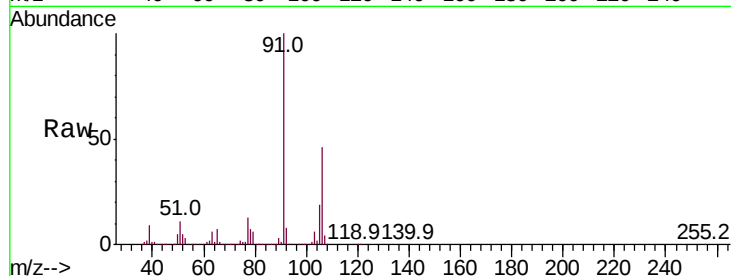
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 594119

Ion Ratio Lower Upper

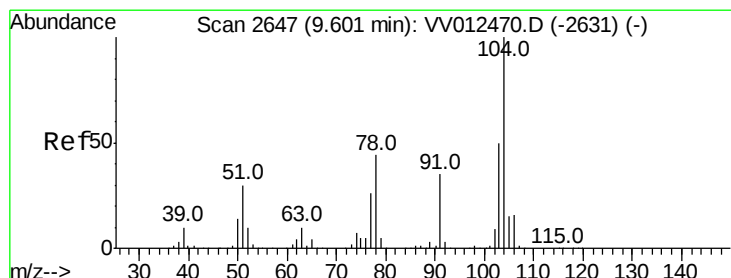
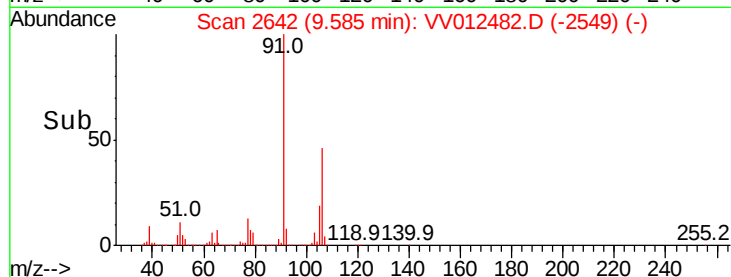
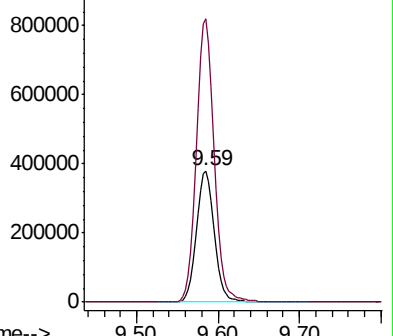
106 100

91 215.7 155.6 289.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.521 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.02 min

Lab File: VV012482.D

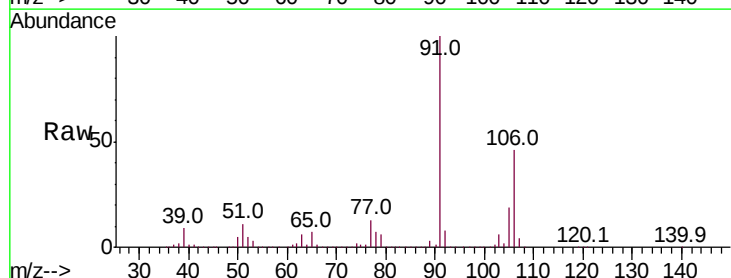
Acq: 31 Aug 2019 06:25

Tgt Ion:104 Resp: 32563

Ion Ratio Lower Upper

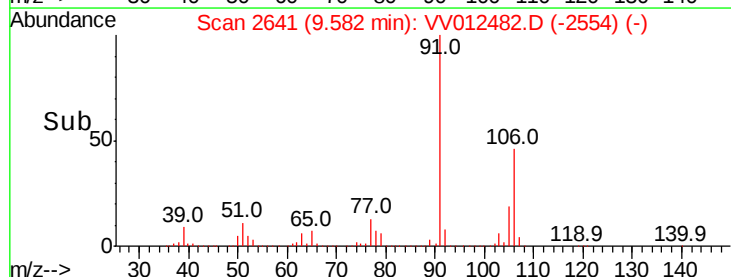
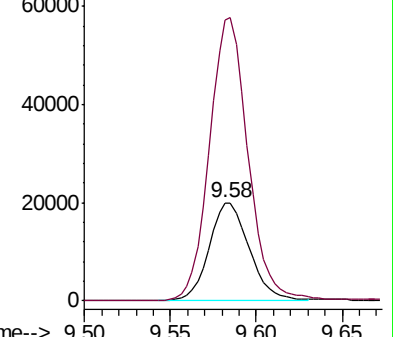
104 100

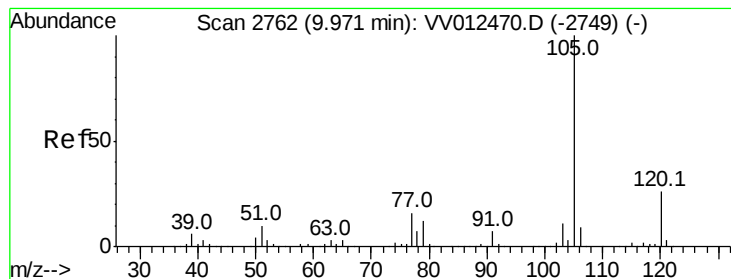
78 285.9 31.8 59.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 3.216 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012482.D

Acq: 31 Aug 2019 06:25

Instrument :
MSVOA_V
ClientSampled :

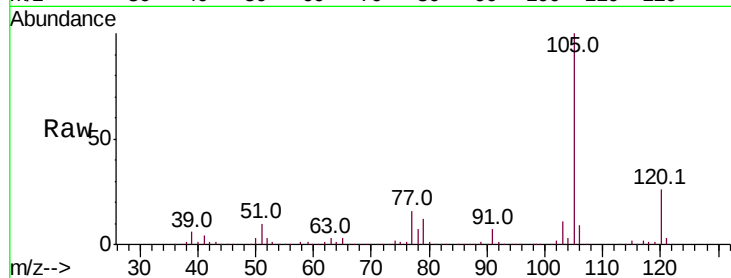
Tot Ion:105 Resp: 315563

Ion Ratio Lower Upper

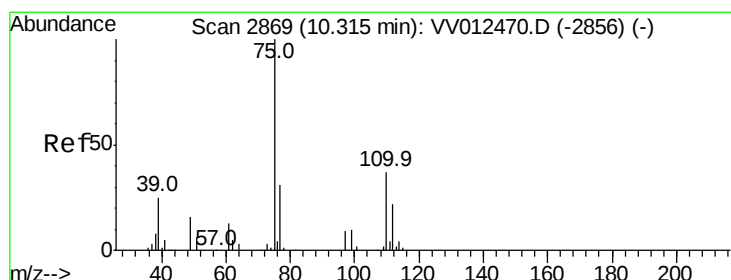
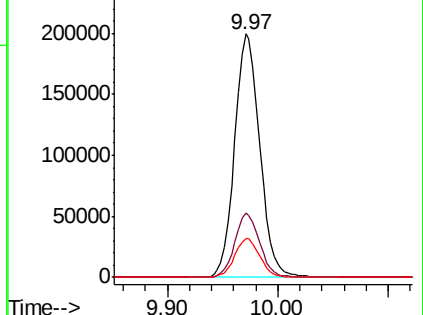
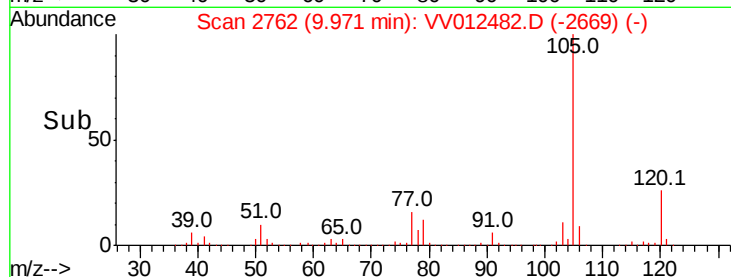
105 100

120 26.1 20.6 31.0

77 15.8 12.7 19.1



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V



#59

1,2,3-Trichloropropane

Concen: 0.255 ug/L

RT: 10.40 min Scan# 2894

Delta R.T. 0.08 min

Lab File: VV012482.D

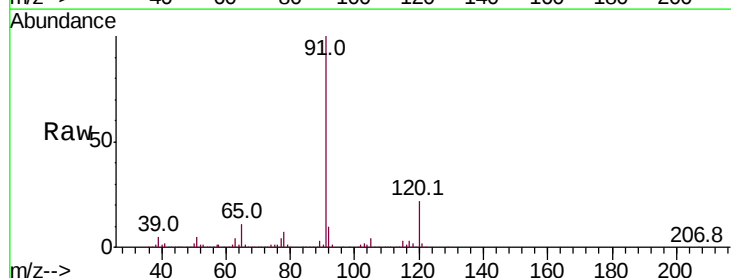
Acq: 31 Aug 2019 06:25

Tgt Ion: 75 Resp: 3560

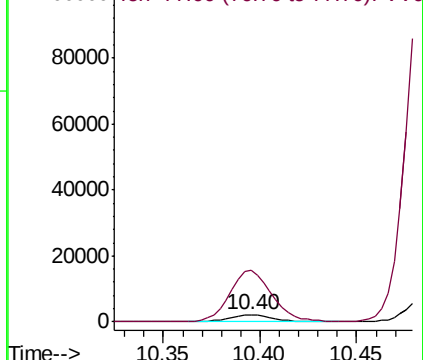
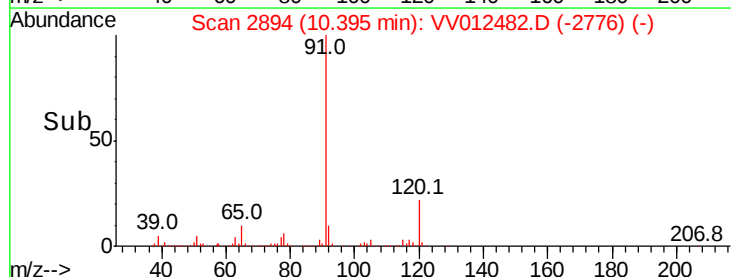
Ion Ratio Lower Upper

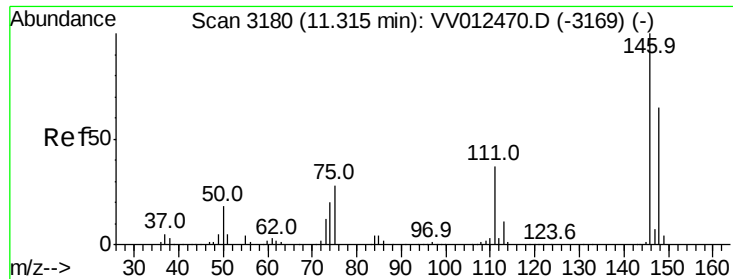
75 100

77 667.0 25.2 37.8#



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0

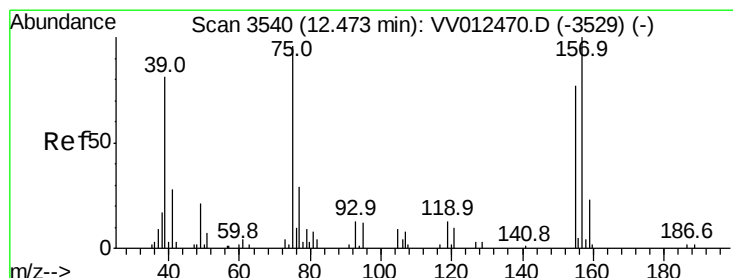
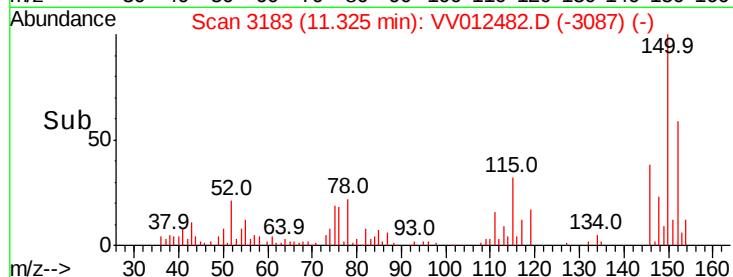
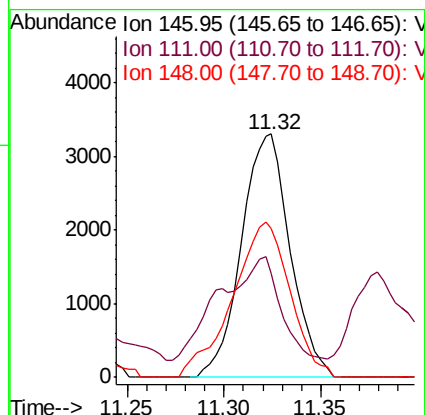
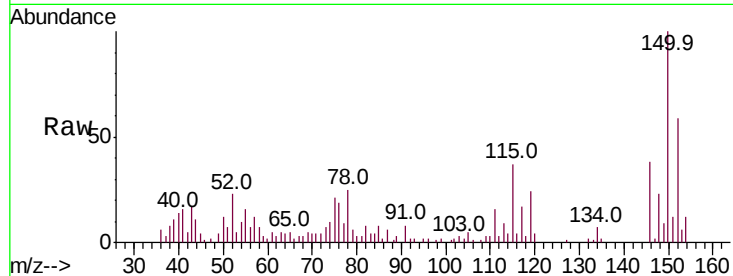




#63
 1,4-Dichlorobenzene
 Concen: 0.103 ug/L
 RT: 11.32 min Scan# 3183
 Delta R.T. 0.01 min
 Lab File: VV012482.D
 Acq: 31 Aug 2019 06:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:146 Resp: 5777
 Ion Ratio Lower Upper
 146 100
 111 43.0 26.8 49.8
 148 61.0 44.5 82.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 104.570 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.01 min
 Lab File: VV012482.D
 Acq: 31 Aug 2019 06:25

Tgt Ion: 75 Resp: 369946
 Ion Ratio Lower Upper
 75 100
 155 0.1 68.6 102.8#
 157 0.0 88.6 133.0#

