

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100719\
 Data File : VV013050.D
 Acq On : 07 Oct 2019 11:08
 Operator : SY/MD
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 08 16:45:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 08 14:28:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	850417	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	811003	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	432153	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	282958	21.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.76%
7) Chloroethane-d5	1.58	69	245350	23.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.00%
10) 1,1-Dichloroethene-d2	2.13	63	512391	23.35	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	93.40%
20) 2-Butanone-d5	3.93	46	219723	48.23	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.46%
24) Chloroform-d	4.40	84	596353	25.53	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	102.12%
26) 1,2-Dichloroethane-d4	5.08	65	329157	24.24	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.96%
29) Benzene-d6	5.09	84	1200953	26.52	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	106.08%
33) 1,2-Dichloropropane-d6	6.11	67	377606	26.60	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	106.40%
37) Toluene-d8	7.35	98	1118999	27.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	108.88%
38) trans-1,3-Dichloropropene-	7.66	79	158801	26.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	105.68%
39) 2-Hexanone-d5	8.13	63	153834	53.86	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.72%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	340054	25.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.92%
61) 1,2-Dichlorobenzene-d4	11.67	152	445755	26.55	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	106.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	251490	26.853	ug/L 98
3) Chloromethane	1.25	50	292805	23.940	ug/L 100
5) Vinyl chloride	1.32	62	308840	25.577	ug/L 99
6) Bromomethane	1.53	94	165971	22.018	ug/L 99
8) Chloroethane	1.60	64	190705	25.701	ug/L 99
9) Trichlorofluoromethane	1.77	101	422110	25.846	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	261277	25.031	ug/L 98
12) 1,1-Dichloroethene	2.14	96	245102	25.496	ug/L 98
13) Acetone	2.19	43	221130	45.665	ug/L 100
14) Carbon disulfide	2.32	76	739140	24.070	ug/L 100
15) Methyl Acetate	2.46	43	147555	19.646	ug/L 98
16) Methylene chloride	2.53	84	301712	23.736	ug/L 98
17) Methyl tert-butyl Ether	2.80	73	676456	23.982	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	283838	24.944	ug/L 99
19) 1,1-Dichloroethane	3.23	63	521458	25.112	ug/L 100
21) 2-Butanone	4.02	43	212669	37.738	ug/L 97
22) cis-1,2-Dichloroethene	3.96	96	320906	25.768	ug/L 96

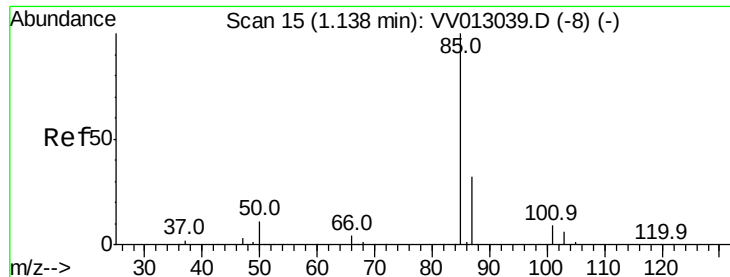
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100719\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	148581	24.154	ug/L	99
25) Chloroform	4.42	83	533343	24.496	ug/L	100
27) 1,2-Dichloroethane	5.17	62	357607	23.239	ug/L	99
30) Cyclohexane	4.72	56	473213	27.197	ug/L	98
31) 1,1,1-Trichloroethane	4.65	97	436878	27.218	ug/L	98
32) Carbon tetrachloride	4.87	117	393928	27.067	ug/L	100
34) Benzene	5.14	78	1190634	26.374	ug/L	100
35) Trichloroethene	5.96	95	324205	25.780	ug/L	100
36) Methylcyclohexane	6.17	83	520725	26.973	ug/L	100
40) 1,2-Dichloropropane	6.22	63	299781	25.536	ug/L	100
41) Bromodichloromethane	6.55	83	384524	25.572	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	466822	27.062	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	428124	44.388	ug/L	99
44) Toluene	7.43	91	1295732	27.214	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	380453	26.205	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	242241	24.306	ug/L	99
47) Tetrachloroethene	8.02	164	266238	26.048	ug/L	99
49) 2-Hexanone	8.18	43	317423	43.659	ug/L	97
50) Dibromochloromethane	8.29	129	289705	25.291	ug/L	100
51) 1,2-Dibromoethane	8.39	107	238211	24.390	ug/L	100
52) Chlorobenzene	8.92	112	850082	25.872	ug/L	100
53) Ethylbenzene	9.05	91	1443595	27.537	ug/L	99
54) m,p-Xylene	9.18	106	558067	28.002	ug/L	97
55) o-xylene	9.59	106	536390	28.247	ug/L	97
56) Styrene	9.60	104	931344	27.875	ug/L	99
57) Isopropylbenzene	9.97	105	1425572	28.566	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	289005	23.442	ug/L	99
59) 1,2,3-Trichloropropane	10.31	75	225920	22.202	ug/L	99
62) Bromoform	9.77	173	180797	24.654	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	701372	26.367	ug/L	99
64) 1,4-Dichlorobenzene	11.31	146	709946	25.429	ug/L	100
65) 1,2-Dichlorobenzene	11.68	146	649289	25.590	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	46761	20.787	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	554319	26.640	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	469810	25.820	ug/L	100
69) Naphthalene	13.55	128	889491	24.305	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	437447	25.005	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 26.853 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

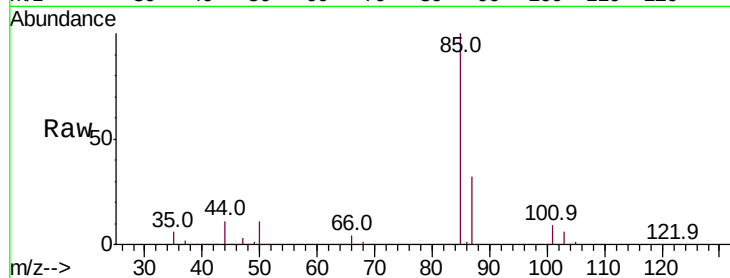
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 251490

Ion Ratio Lower Upper

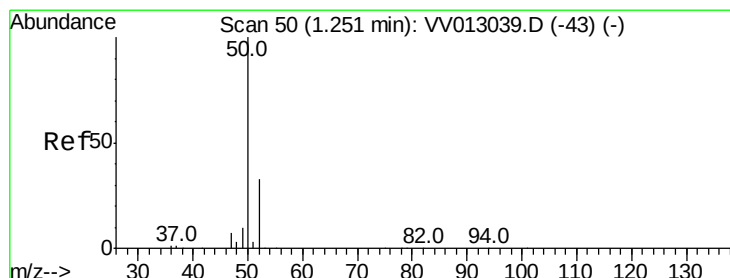
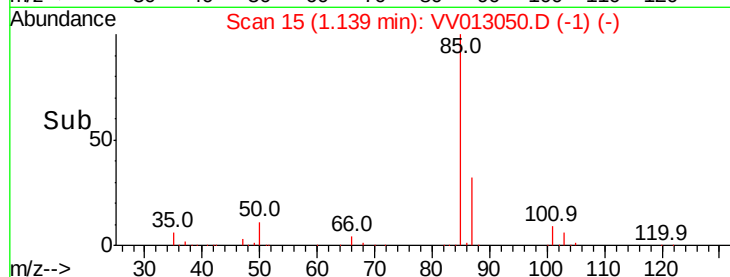
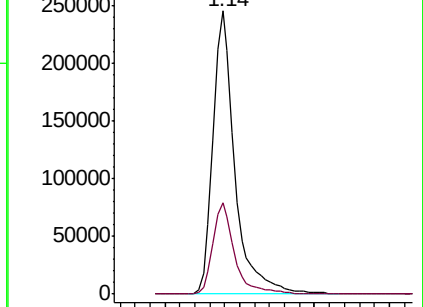
85 100

87 32.0 23.2 43.0



Abundance Ion 85.00 (84.70 to 85.70): VV013039.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV013039.D (-8) (-)



#3

Chloromethane

Concen: 23.940 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013050.D

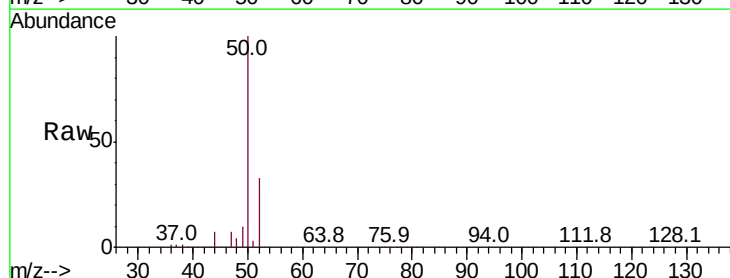
Acq: 07 Oct 2019 11:08

Tgt Ion: 50 Resp: 292805

Ion Ratio Lower Upper

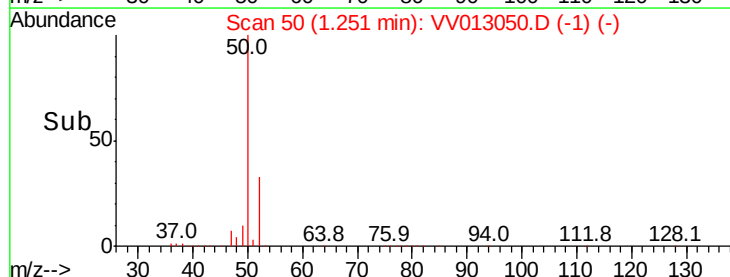
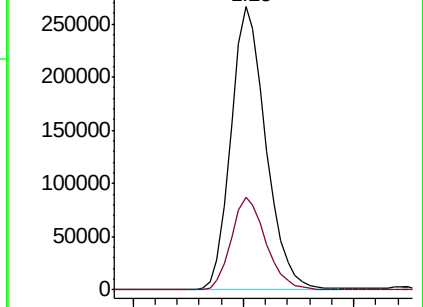
50 100

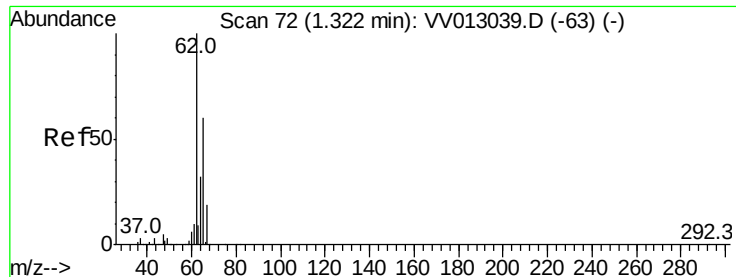
52 32.6 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV013039.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV013039.D (-43) (-)





#5

Vinyl chloride

Concen: 25.577 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

Instrument :

MSVOA_V

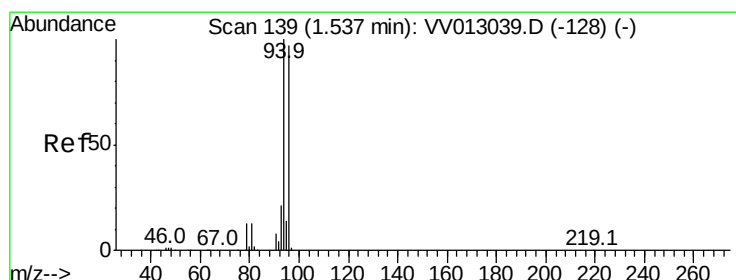
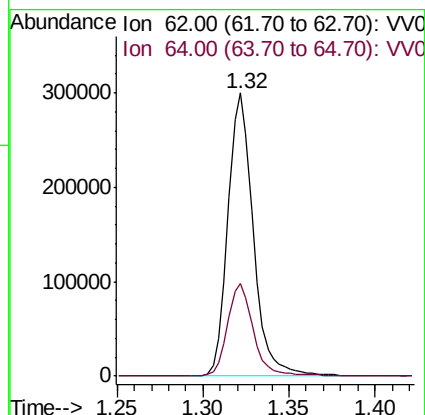
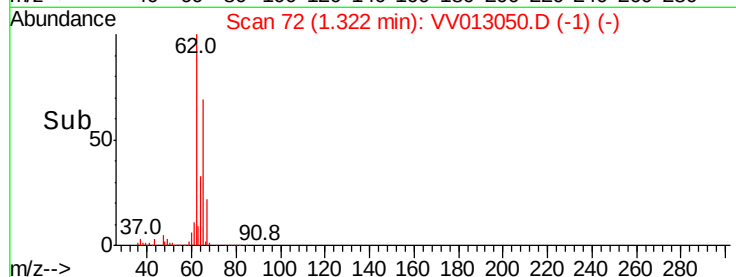
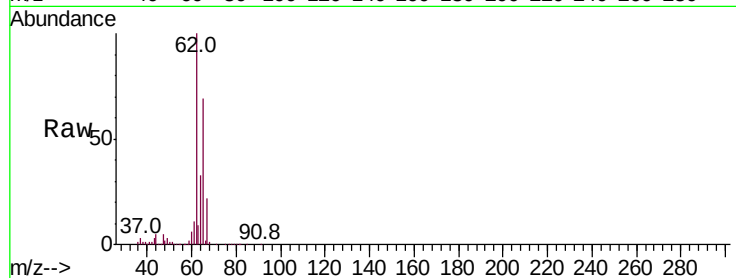
ClientSampleId :

Tot Ion: 62 Resp: 308840

Ion Ratio Lower Upper

62 100

64 32.8 22.7 42.1



#6

Bromomethane

Concen: 22.018 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV013050.D

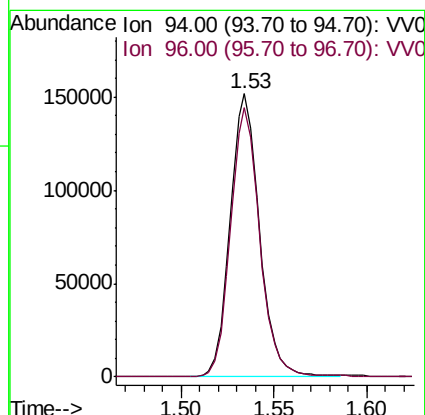
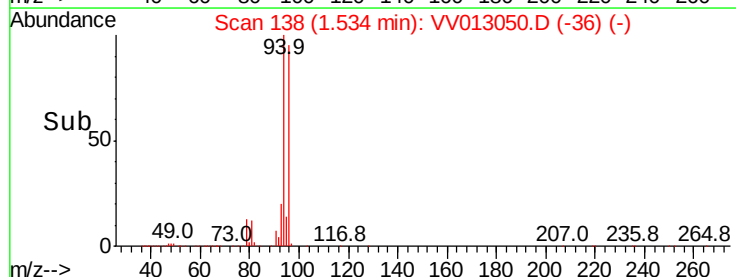
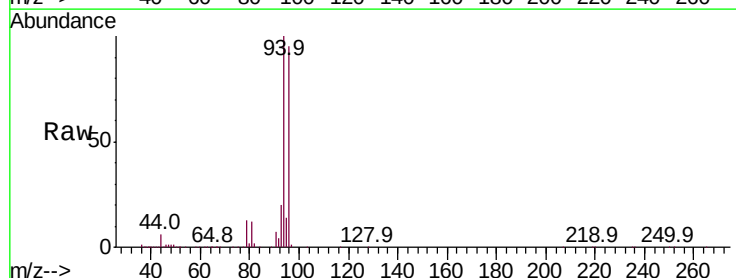
Acq: 07 Oct 2019 11:08

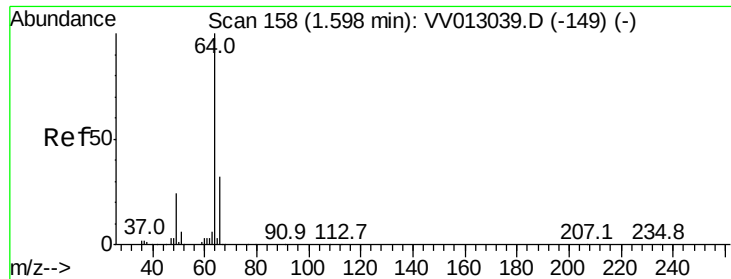
Tgt Ion: 94 Resp: 165971

Ion Ratio Lower Upper

94 100

96 94.6 9.4 177.8

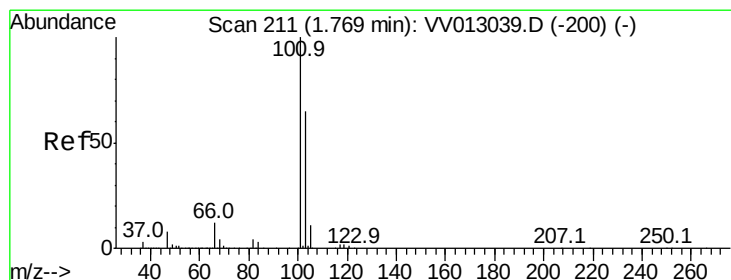
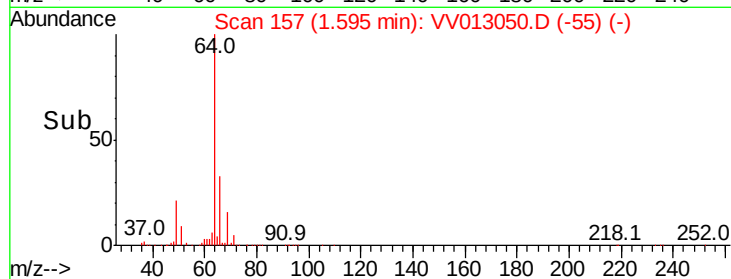
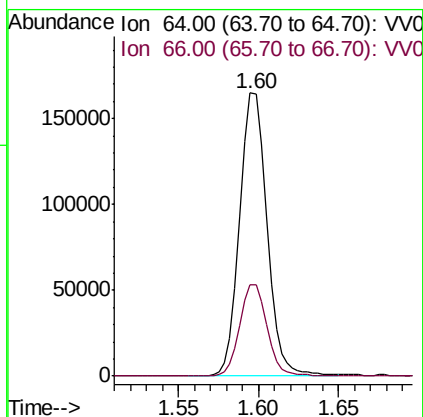
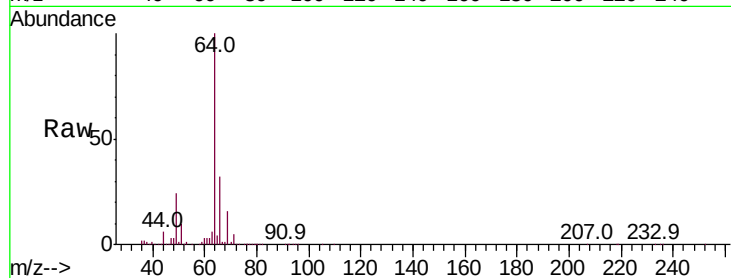




#8
Chloroethane
Concen: 25.701 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

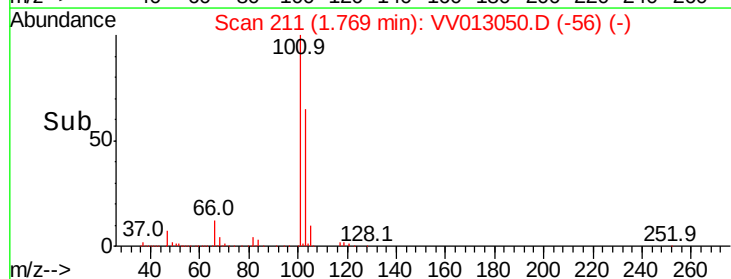
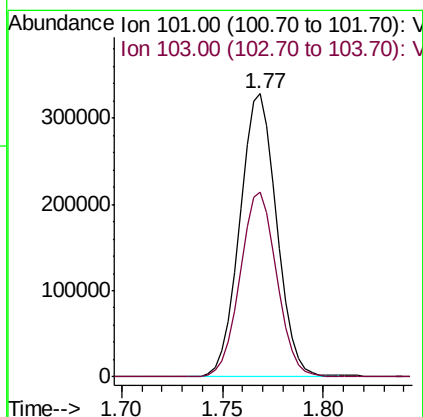
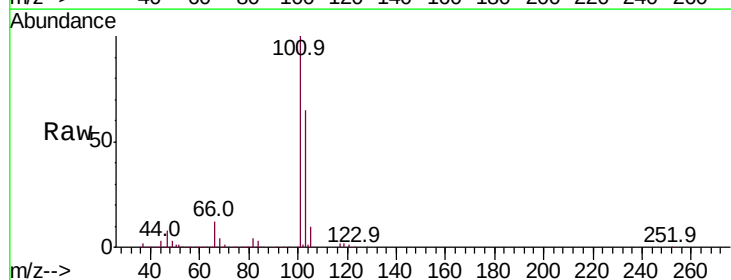
Instrument :
MSVOA_V
ClientSampleId :

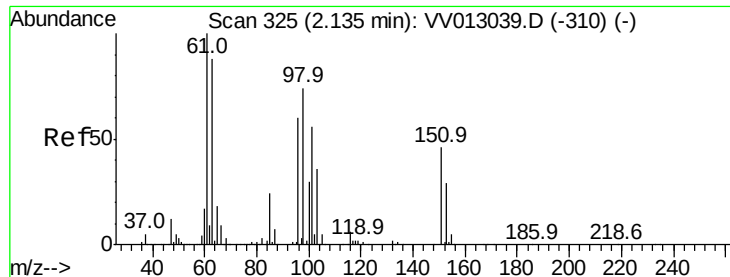
Tot Ion: 64 Resp: 190705
Ion Ratio Lower Upper
64 100
66 32.4 22.2 41.2



#9
Trichlorofluoromethane
Concen: 25.846 ug/L
RT: 1.77 min Scan# 211
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Tgt Ion: 101 Resp: 422110
Ion Ratio Lower Upper
101 100
103 65.1 45.1 83.9





#11

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

Concen: 25.031 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

Instrument :

MSVOA_V

ClientSampleId :

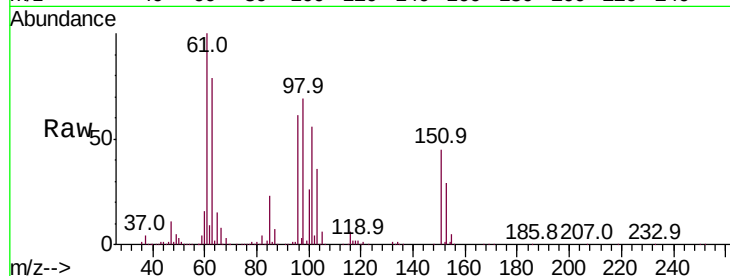
Tot Ion:101 Resp: 261277

Ion Ratio Lower Upper

101 100

85 41.5 32.6 49.0

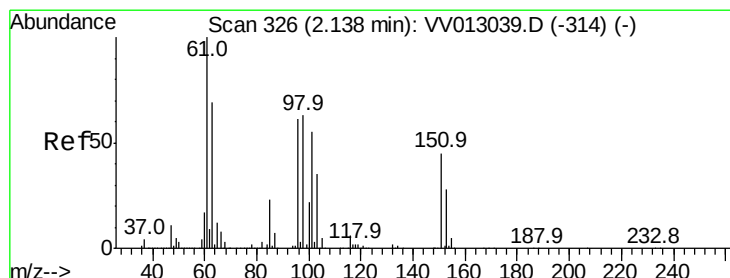
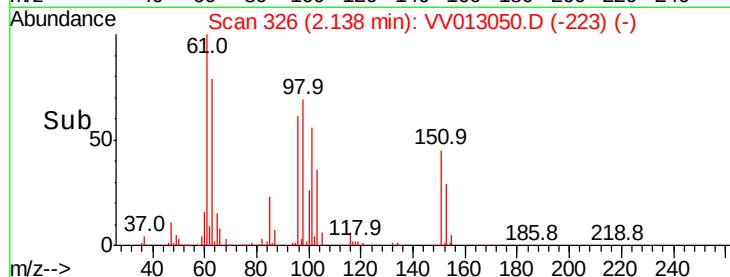
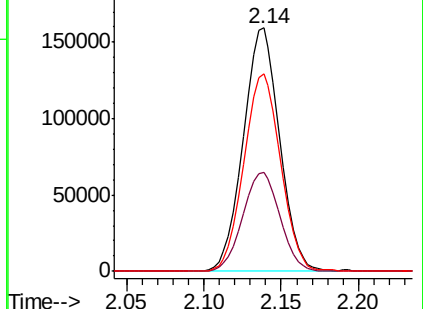
151 82.3 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV013039.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV013039.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV013039.D (-310) (-)



#12

1,1-Dichloroethene

Concen: 25.496 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

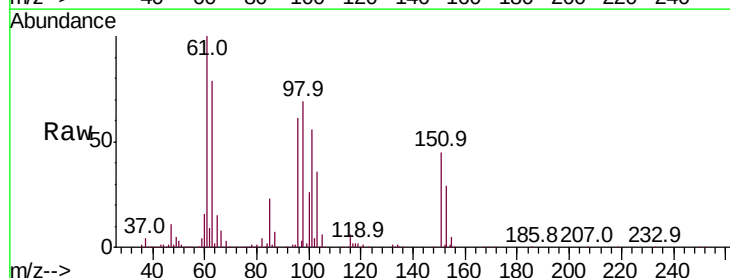
Tgt Ion: 96 Resp: 245102

Ion Ratio Lower Upper

96 100

61 164.3 117.2 217.8

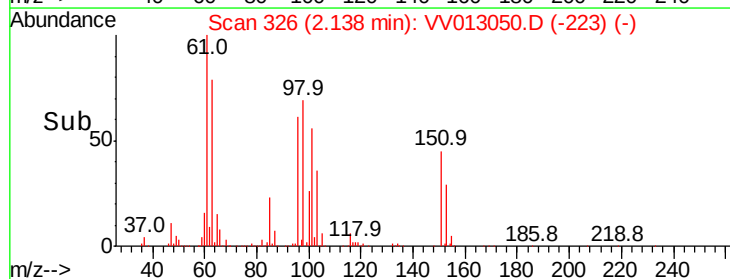
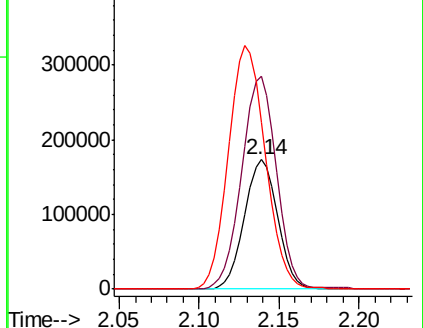
63 129.3 89.6 166.4

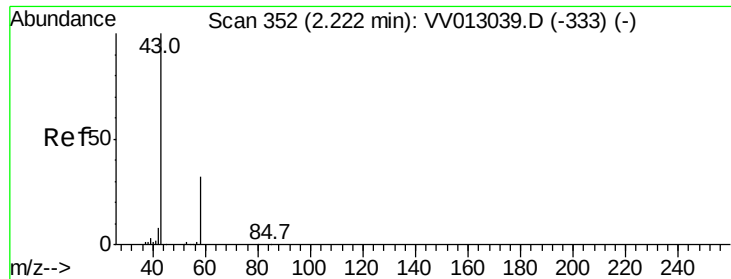


Abundance Ion 96.00 (95.70 to 96.70): VV013039.D (-314) (-)

Ion 61.00 (60.70 to 61.70): VV013039.D (-314) (-)

Ion 63.00 (62.70 to 63.70): VV013039.D (-314) (-)





#13

Acetone

Concen: 45.665 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.01 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

Instrument :

MSVOA_V

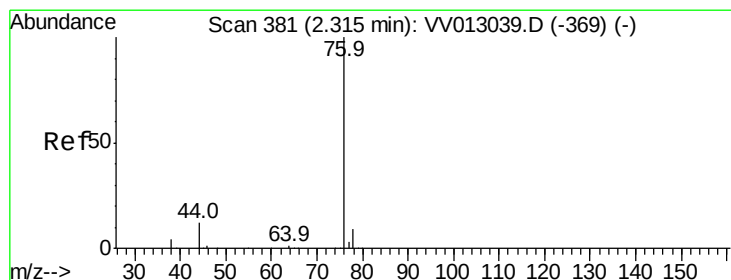
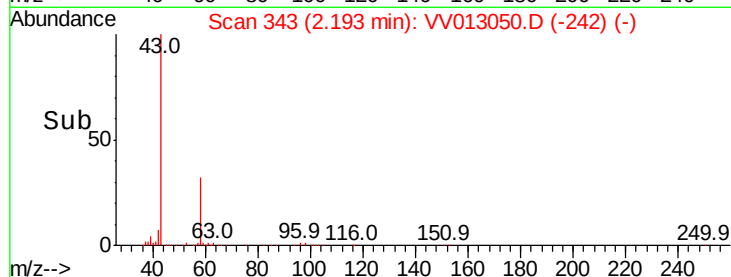
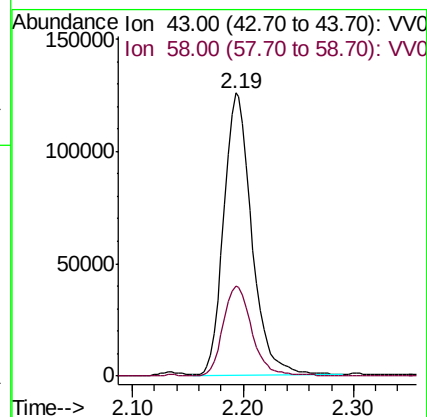
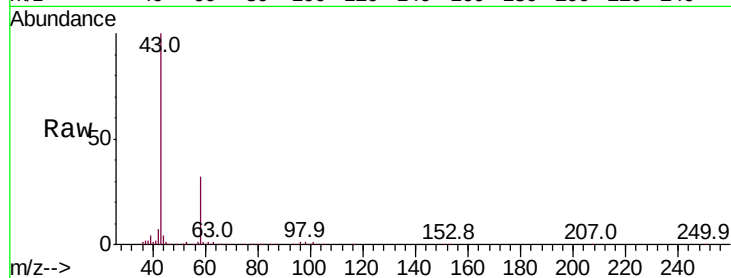
ClientSampleId :

Tot Ion: 43 Resp: 221130

Ion Ratio Lower Upper

43 100

58 32.6 0.0 65.0



#14

Carbon disulfide

Concen: 24.070 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV013050.D

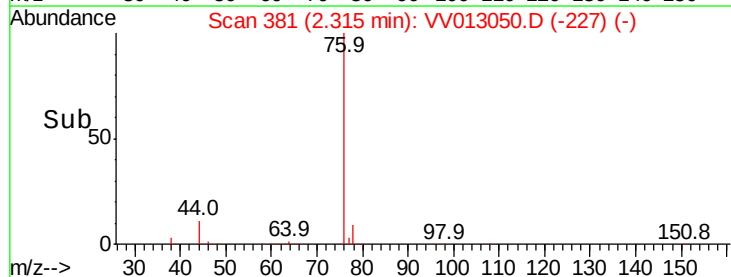
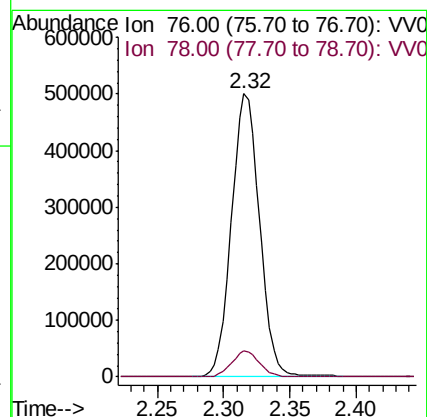
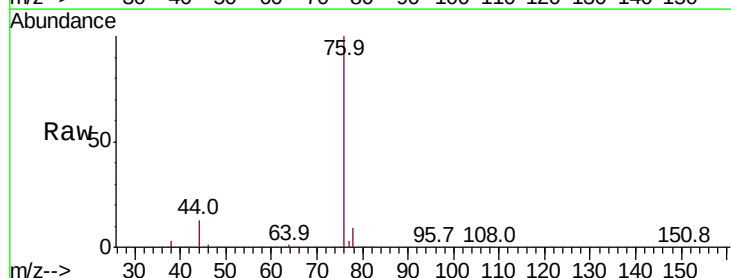
Acq: 07 Oct 2019 11:08

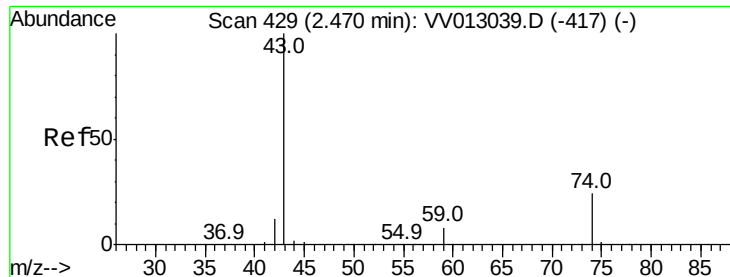
Tgt Ion: 76 Resp: 739140

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

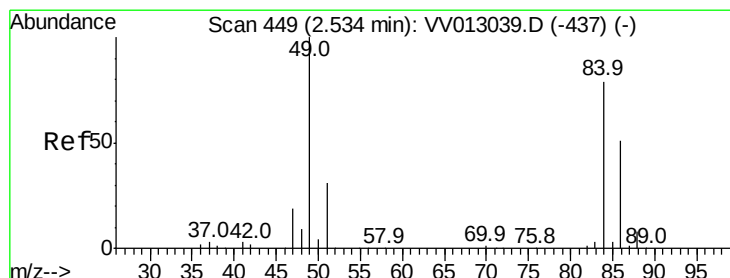
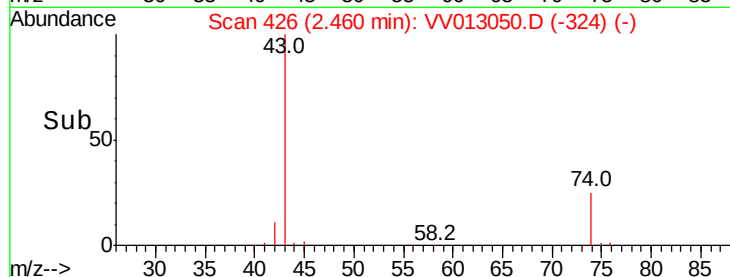
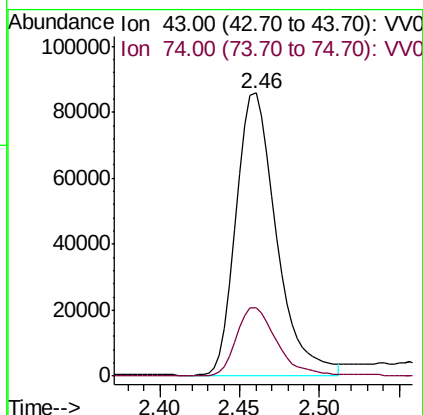
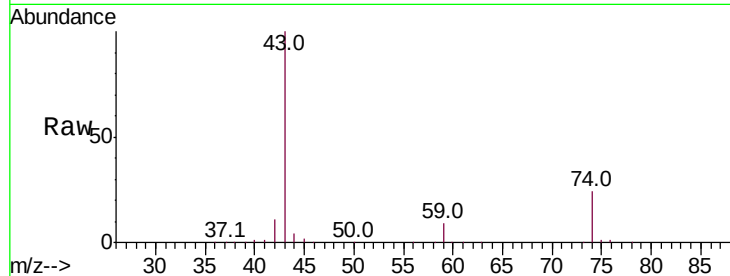




#15
Methvl Acetate
Concen: 19.646 ug/L
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

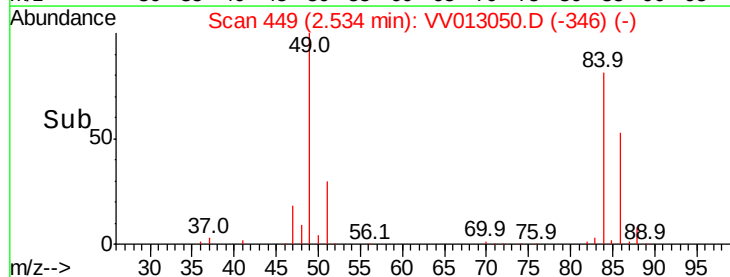
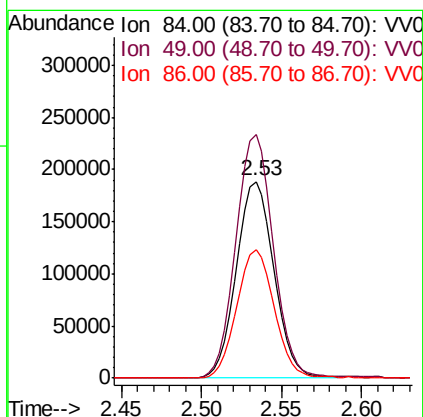
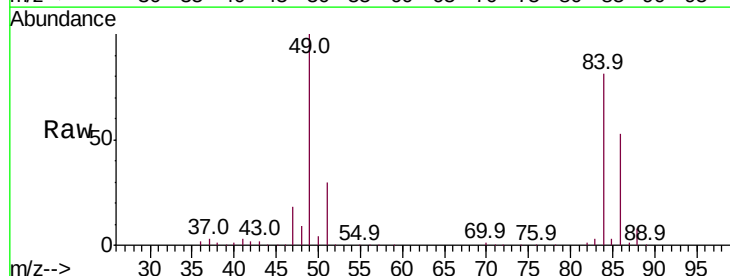
Instrument :
MSVOA_V
ClientSampleId :

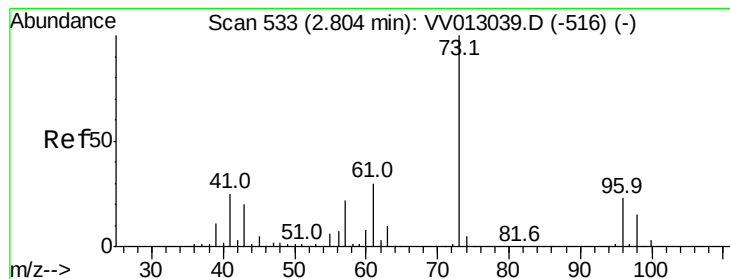
Tot Ion: 43 Resp: 147555
Ion Ratio Lower Upper
43 100
74 24.6 18.8 28.2



#16
Methylene chloride
Concen: 23.736 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Tgt Ion: 84 Resp: 301712
Ion Ratio Lower Upper
84 100
49 123.9 88.3 164.1
86 65.5 44.9 83.3



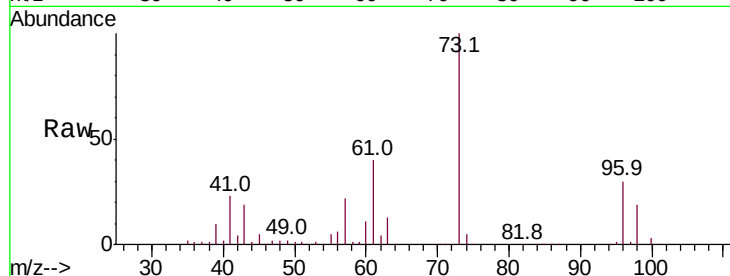


#17

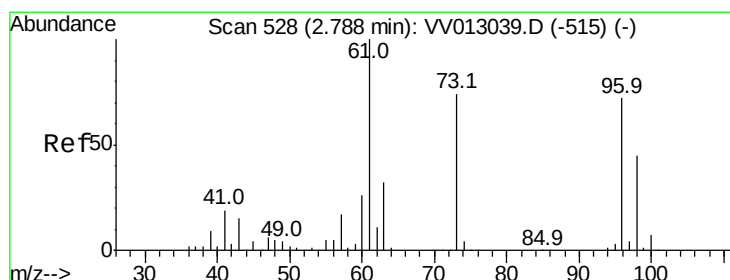
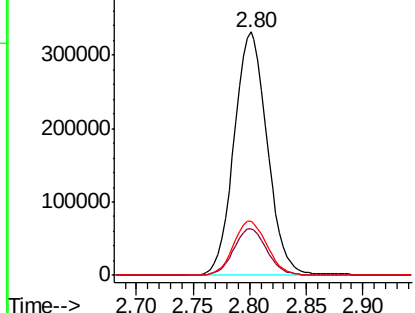
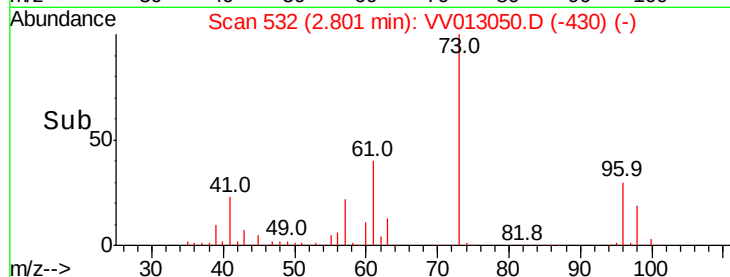
Methyl tert-butyl Ether
 Concen: 23.982 ug/L
 RT: 2.80 min Scan# 532
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 73 Resp: 676456
 Ion Ratio Lower Upper
 73 100
 43 19.2 15.0 22.6
 57 22.8 18.3 27.5



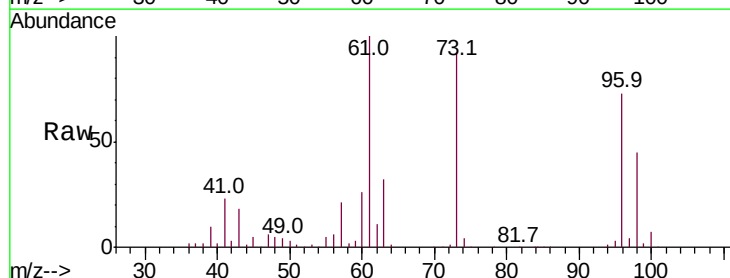
Abundance Ion 73.00 (72.70 to 73.70): VV0
 Ion 43.00 (42.70 to 43.70): VV0
 Ion 57.00 (56.70 to 57.70): VV0



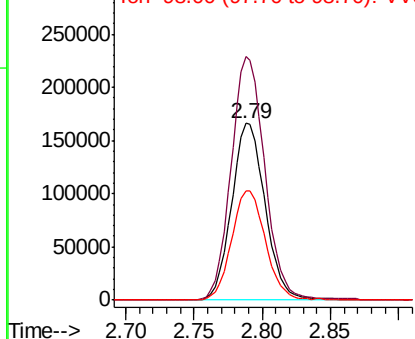
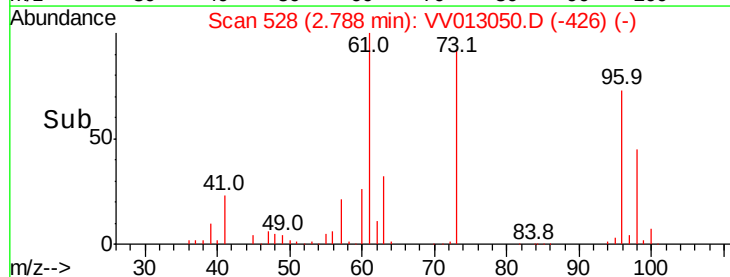
#18

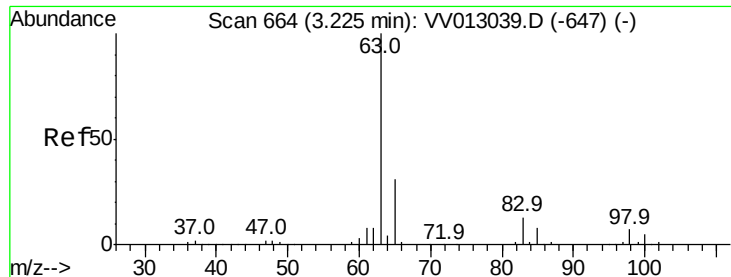
trans-1,2-Dichloroethene
 Concen: 24.944 ug/L
 RT: 2.79 min Scan# 528
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Tgt Ion: 96 Resp: 283838
 Ion Ratio Lower Upper
 96 100
 61 137.7 96.8 179.8
 98 61.8 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

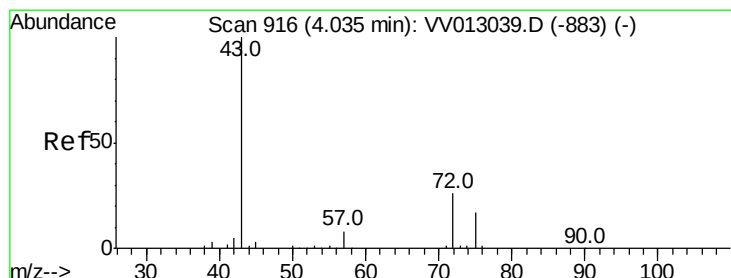
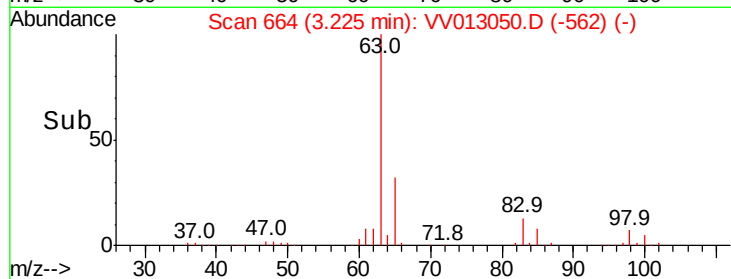
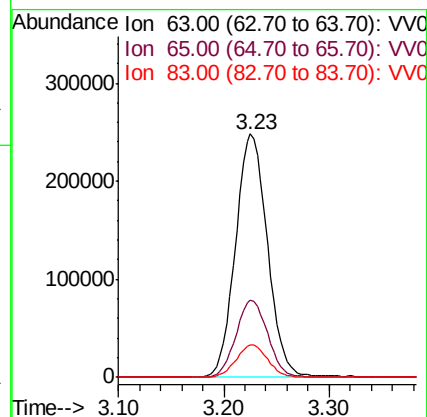
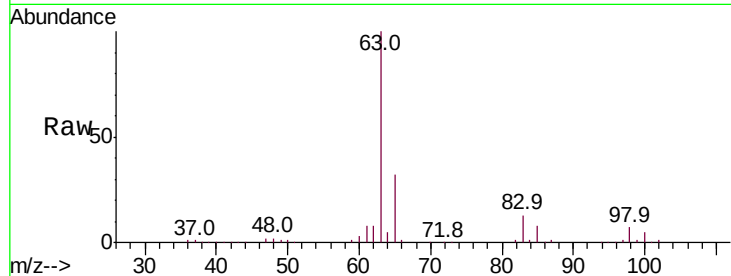




#19
 1,1-Dichloroethane
 Concen: 25.112 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

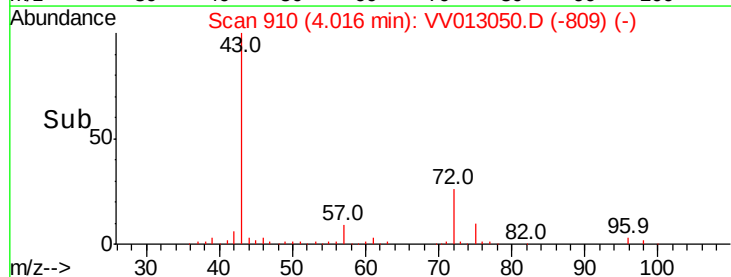
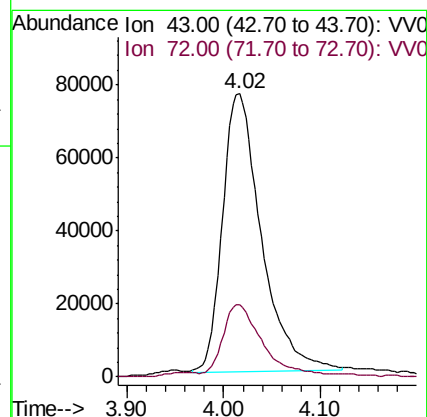
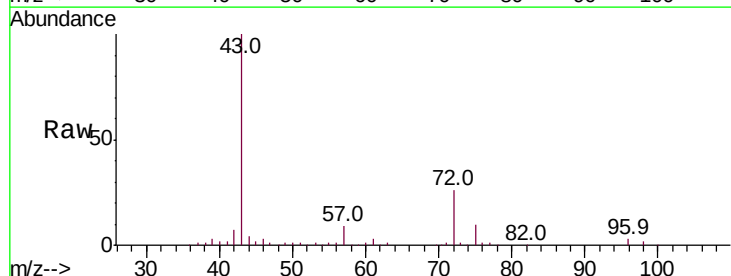
Instrument :
 MSVOA_V
 ClientSampleId :

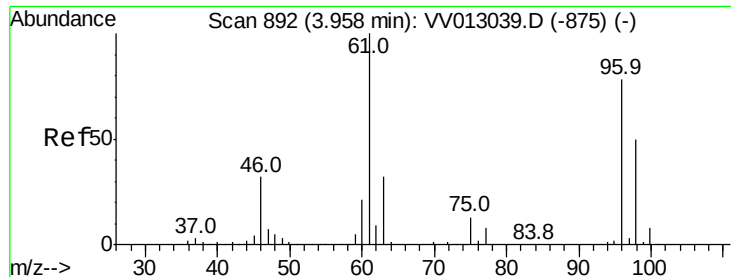
Tot Ion: 63 Resp: 521458
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.0 41.0
 83 13.4 9.2 17.0



#21
 2-Butanone
 Concen: 37.738 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Tgt Ion: 43 Resp: 212669
 Ion Ratio Lower Upper
 43 100
 72 25.3 11.9 35.9



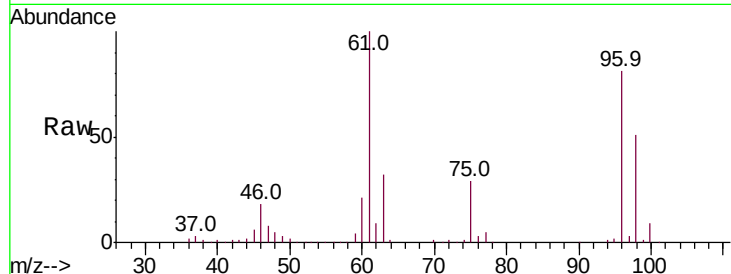


#22

cis-1,2-Dichloroethene
Concen: 25.768 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Instrument :
MSVOA_V
ClientSampled :

Tot Ion	Ratio	Lower	Upper
96	100		
61	123.9	90.9	168.7
98	63.4	45.6	84.6

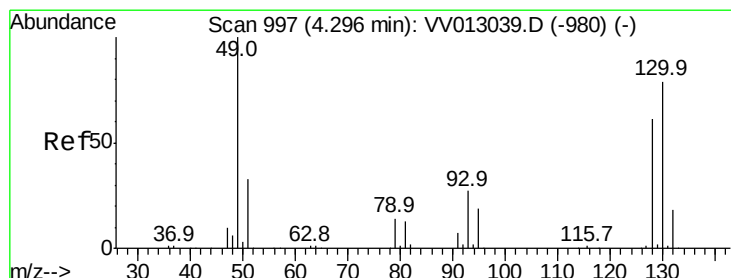
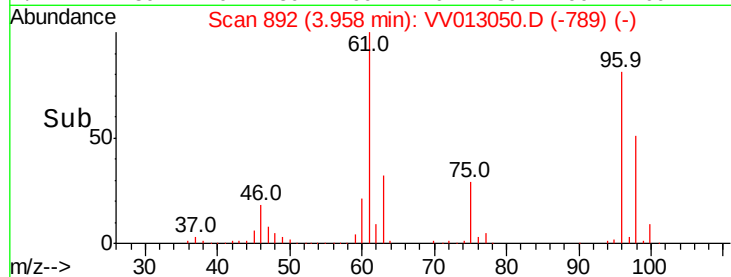
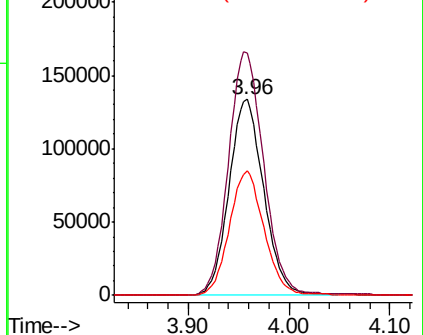


Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

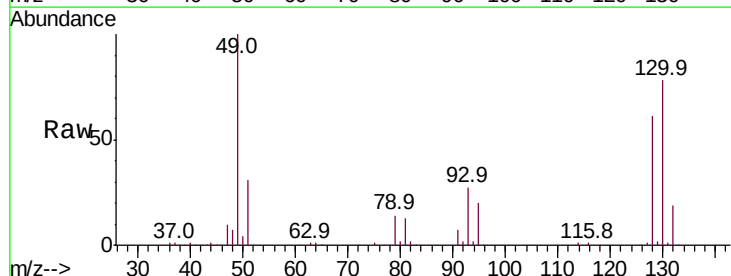
Ion 98.00 (97.70 to 98.70): VV0



#23

Bromochloromethane
Concen: 24.154 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Tgt Ion	Ratio	Lower	Upper
128	100		
49	163.1	114.4	212.6
130	127.6	88.5	164.4
51	51.2	41.4	62.2



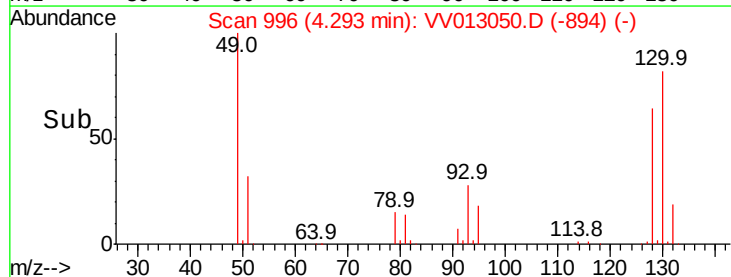
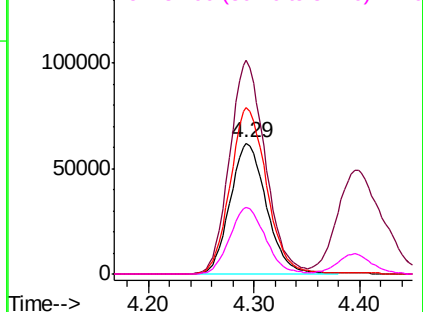
Abundance

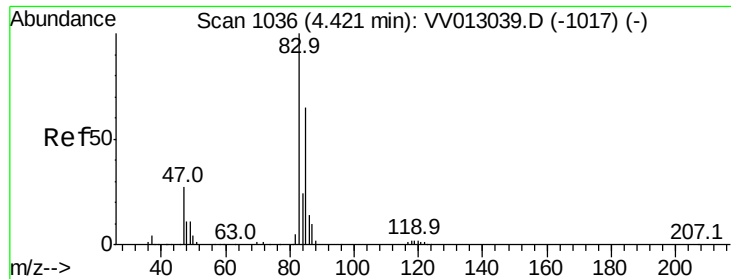
Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0

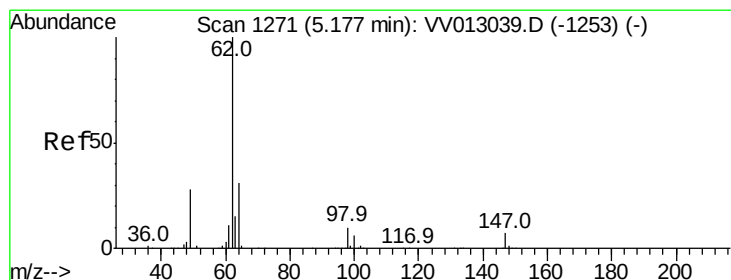
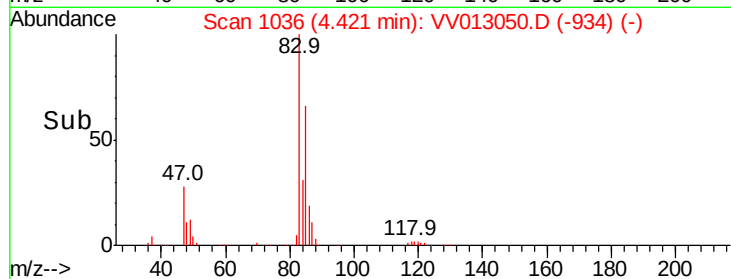
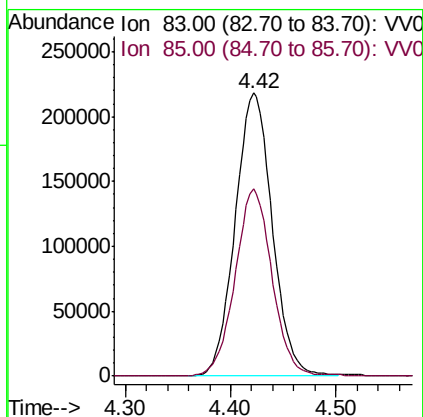
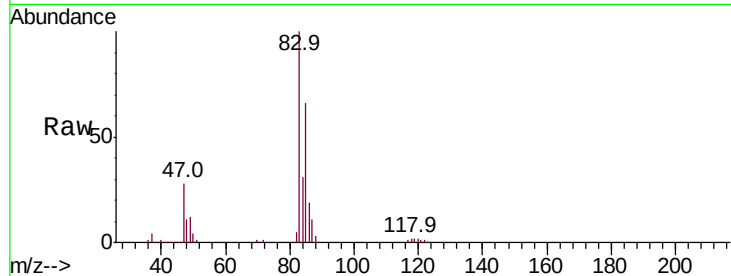




#25
Chloroform
Concen: 24.496 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

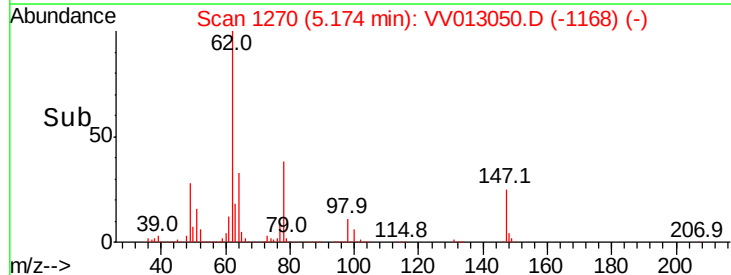
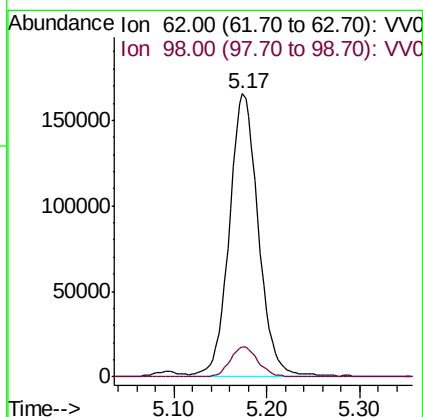
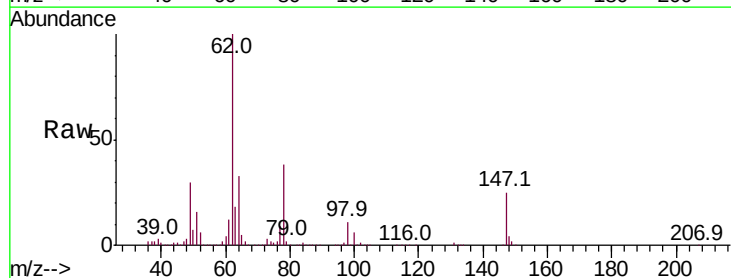
Instrument :
MSVOA_V
ClientSampleId :

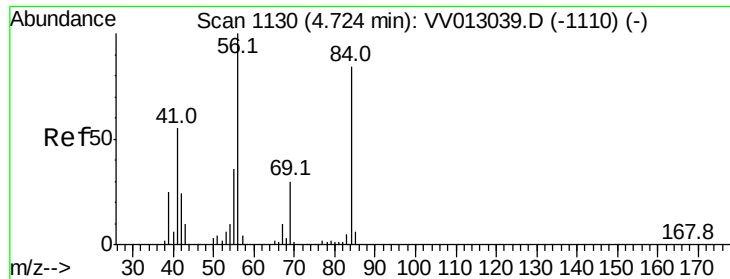
Tot Ion: 83 Resp: 533343
Ion Ratio Lower Upper
83 100
85 65.7 45.8 85.0



#27
1,2-Dichloroethane
Concen: 23.239 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Tgt Ion: 62 Resp: 357607
Ion Ratio Lower Upper
62 100
98 10.6 8.2 12.4

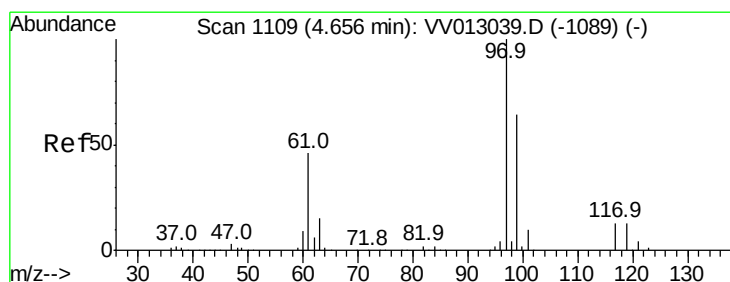
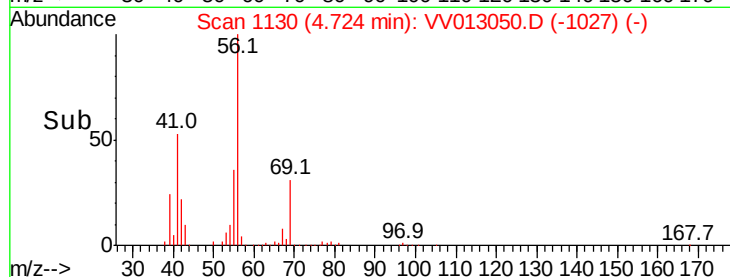
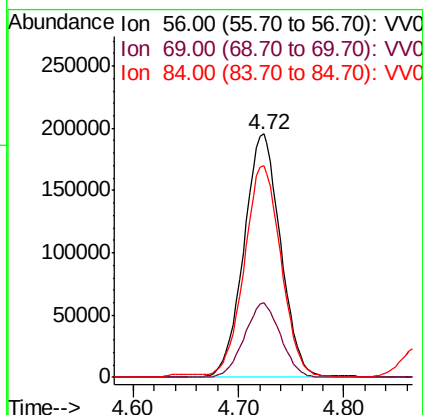
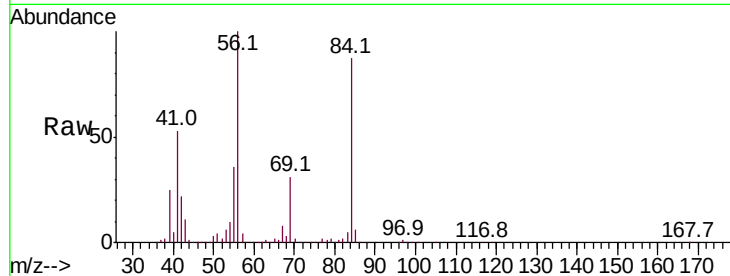




#30
Cyclohexane
Concen: 27.197 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

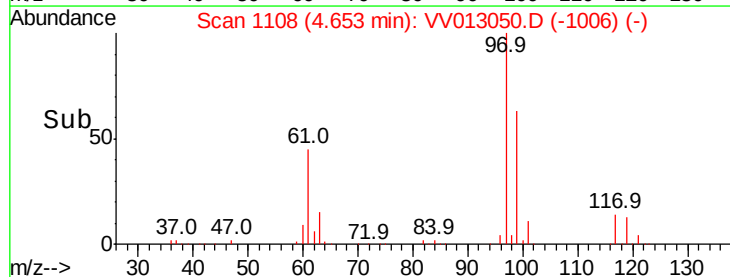
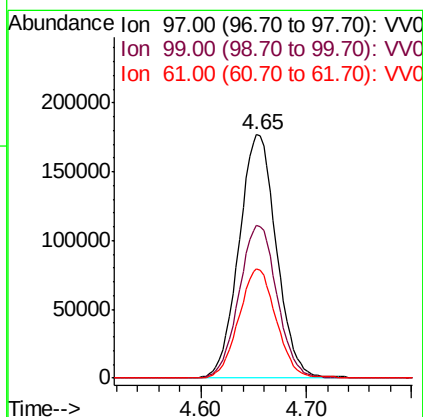
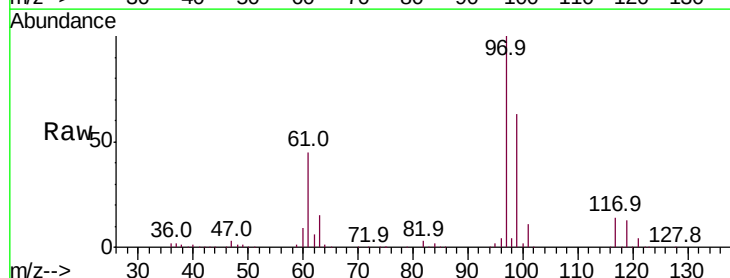
Instrument :
MSVOA_V
ClientSampled :

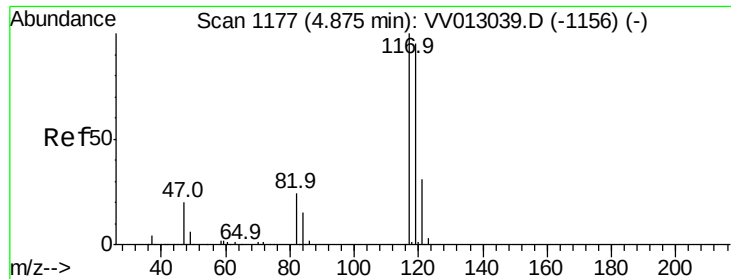
Tot Ion: 56 Resp: 473213
Ion Ratio Lower Upper
56 100
69 30.2 23.8 35.8
84 87.3 68.4 102.6



#31
1,1,1-Trichloroethane
Concen: 27.218 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Tgt Ion: 97 Resp: 436878
Ion Ratio Lower Upper
97 100
99 63.6 51.7 77.5
61 45.1 37.8 56.8





#32

Carbon tetrachloride

Concen: 27.067 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

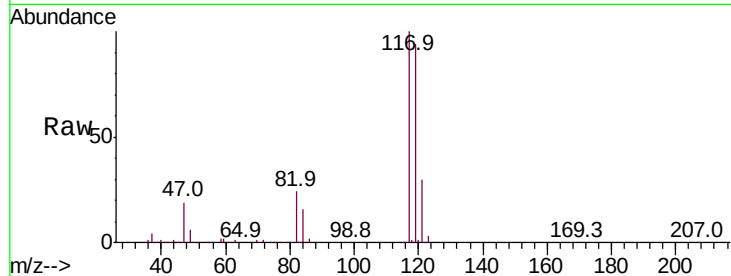
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 393928

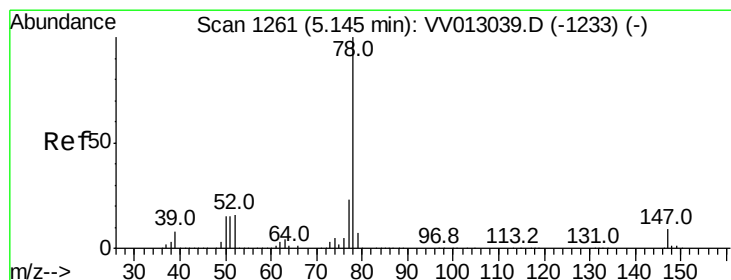
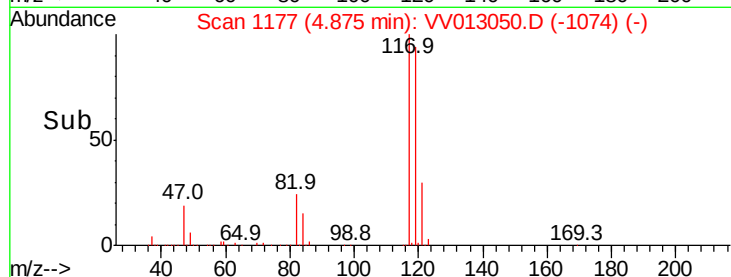
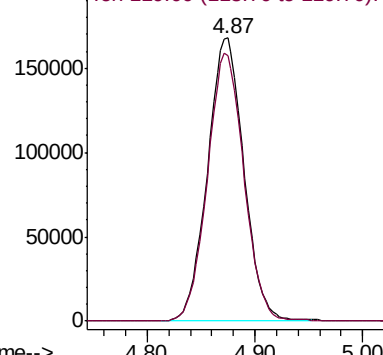
Ion Ratio Lower Upper

117 100

119 94.9 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.374 ug/L

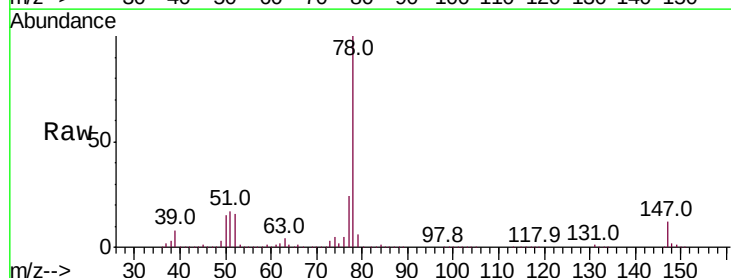
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

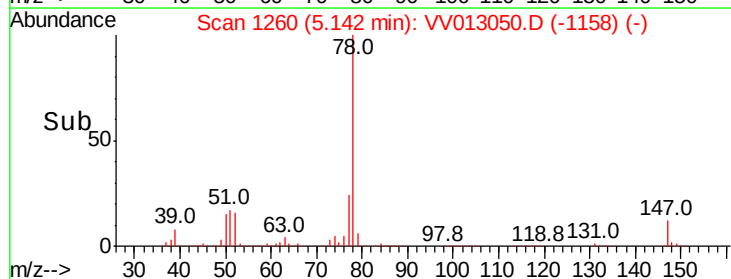
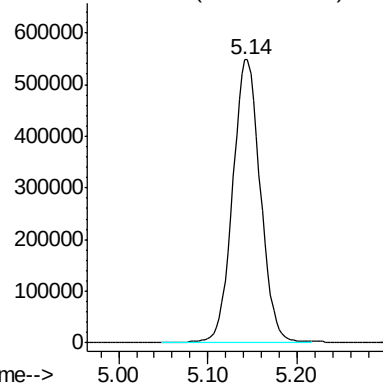
Lab File: VV013050.D

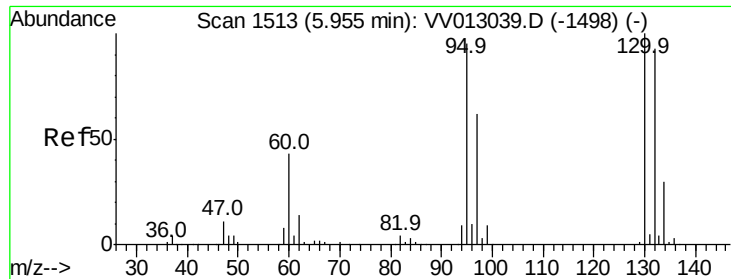
Acq: 07 Oct 2019 11:08

Tgt Ion: 78 Resp: 1190634



Abundance Ion 78.00 (77.70 to 78.70): VV0

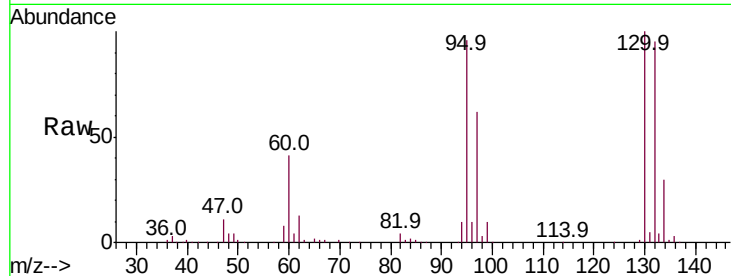




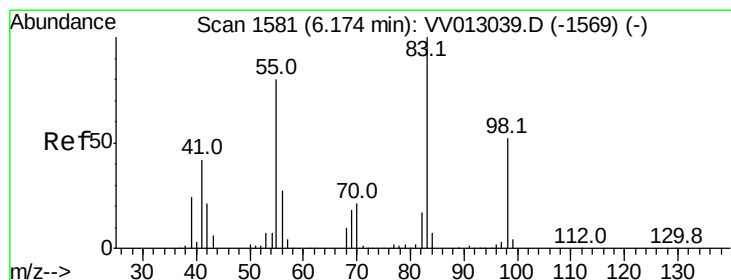
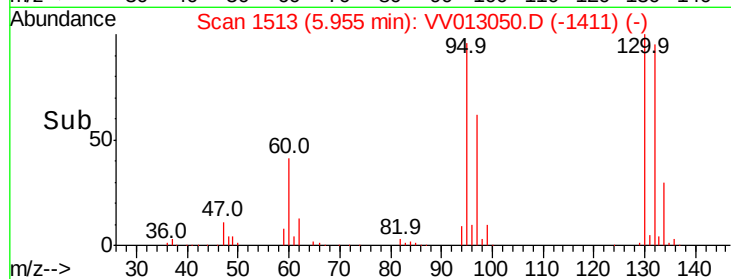
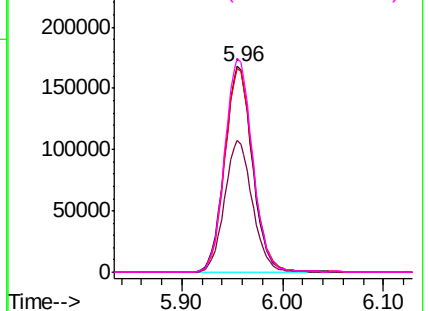
#35
 Trichloroethene
 Concen: 25.780 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 95 Resp: 324205
 Ion Ratio Lower Upper
 95 100
 97 64.1 44.7 82.9
 132 99.6 70.1 130.1
 130 104.4 73.3 136.1

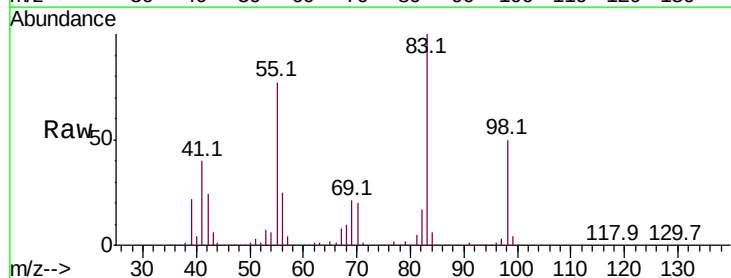


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

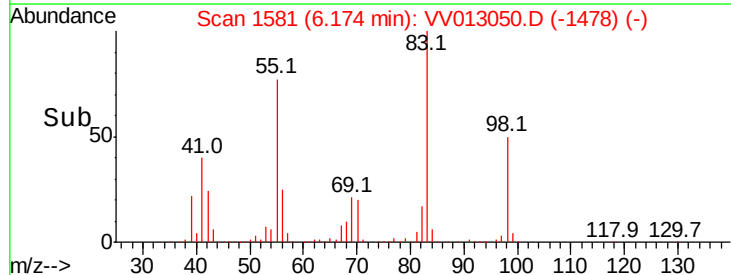
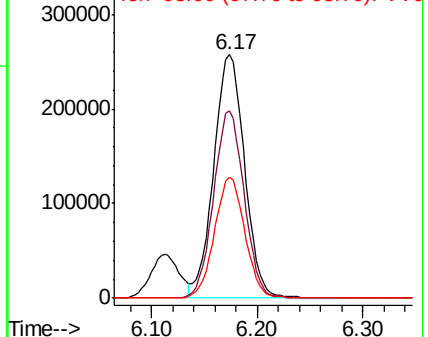


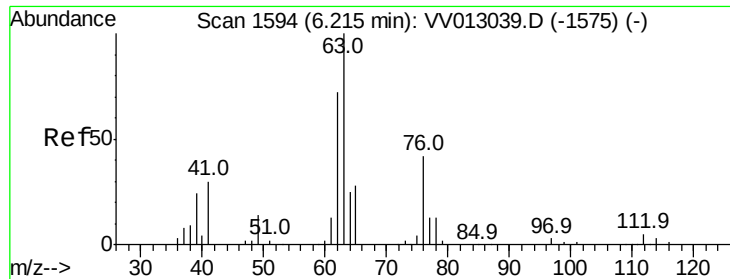
#36
 Methylcyclohexane
 Concen: 26.973 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Tgt Ion: 83 Resp: 520725
 Ion Ratio Lower Upper
 83 100
 55 76.7 61.8 92.8
 98 49.0 39.3 58.9



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

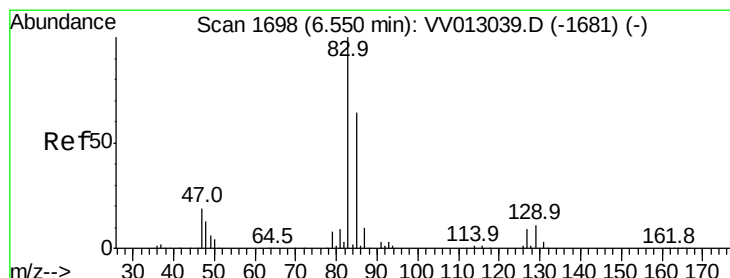
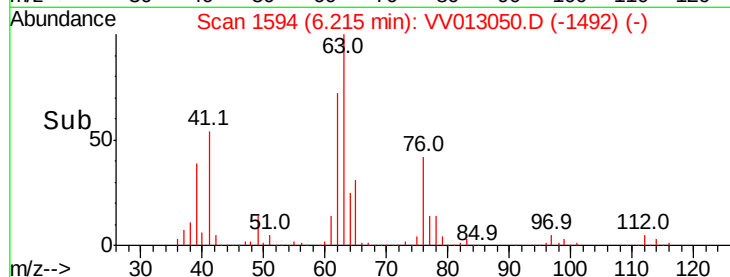
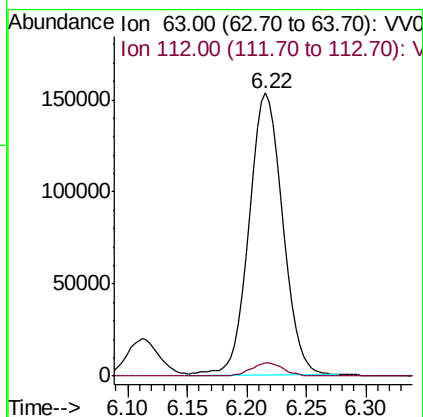
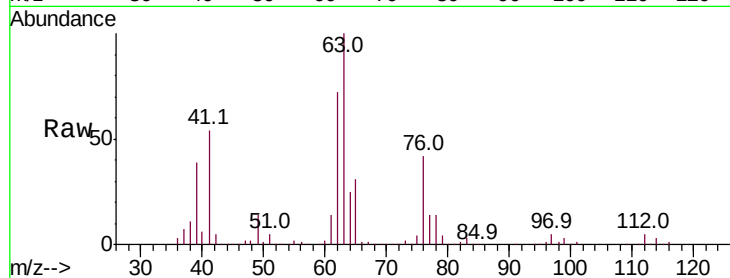




#40
 1,2-Dichloropropane
 Concen: 25.536 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

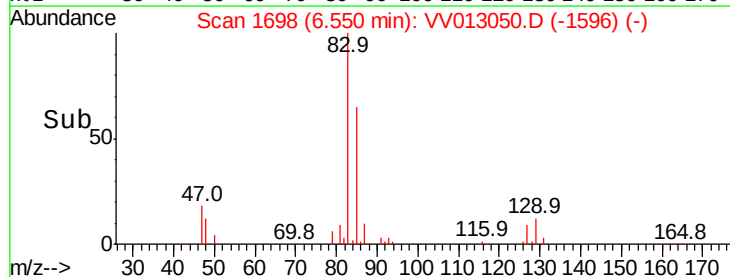
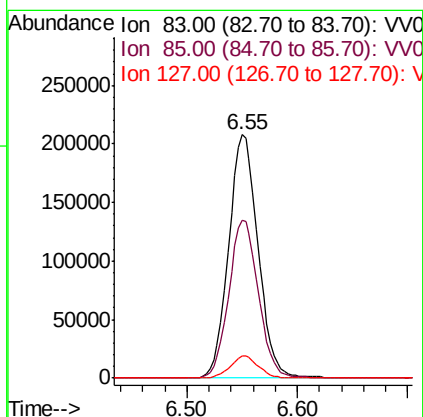
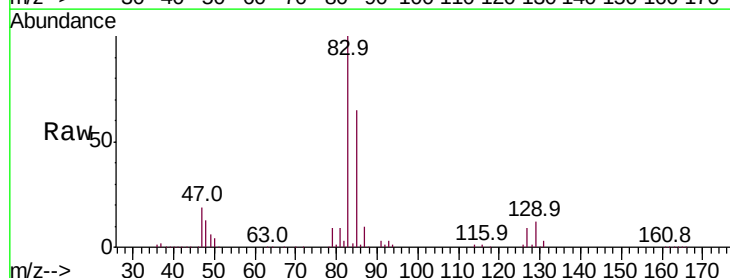
Instrument :
 MSVOA_V
 ClientSampleId :

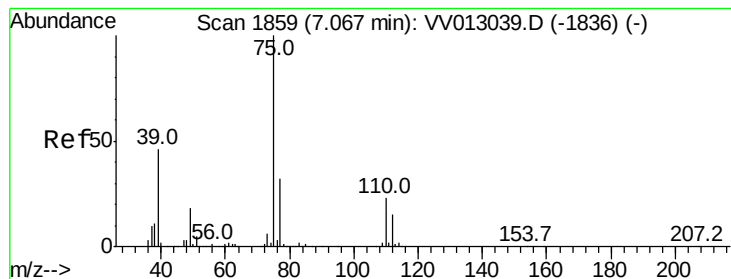
Tot Ion: 63 Resp: 299781
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.8 5.6



#41
 Bromodichloromethane
 Concen: 25.572 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Tgt Ion: 83 Resp: 384524
 Ion Ratio Lower Upper
 83 100
 85 64.8 45.3 84.1
 127 8.9 7.2 10.8



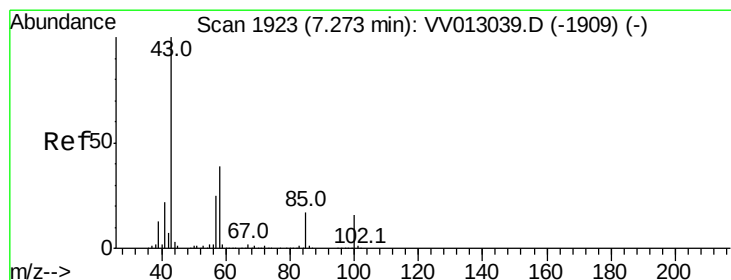
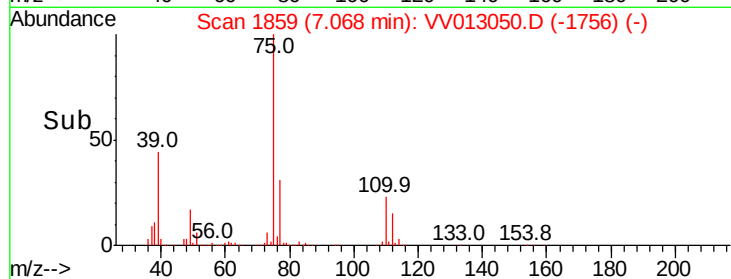
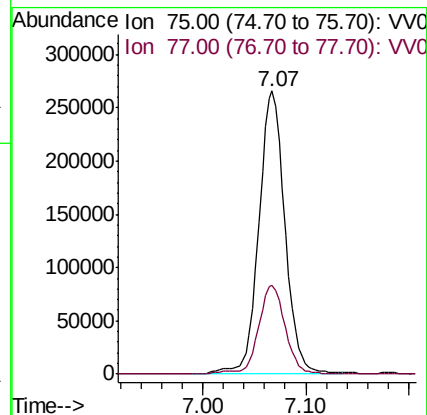
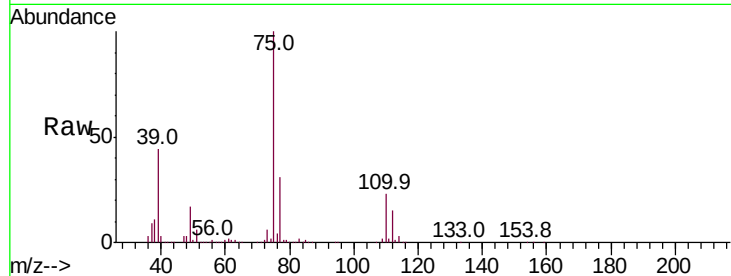


#42

cis-1,3-Dichloropropene
 Concen: 27.062 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Instrument :
 MSVOA_V
 ClientSampleId :

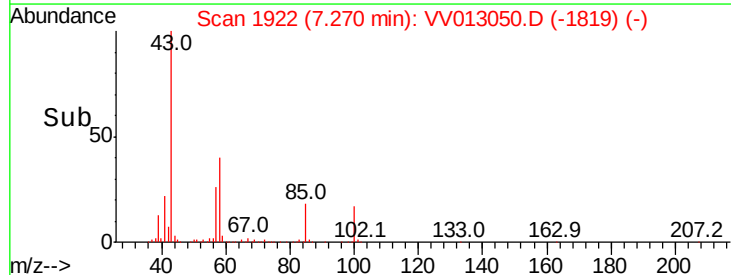
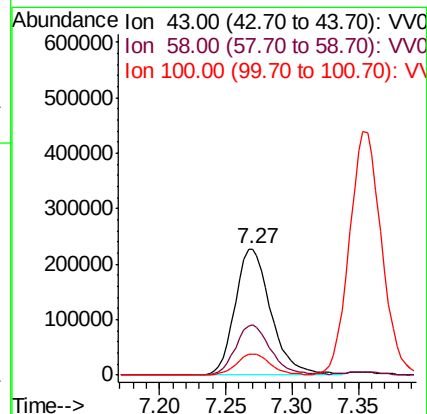
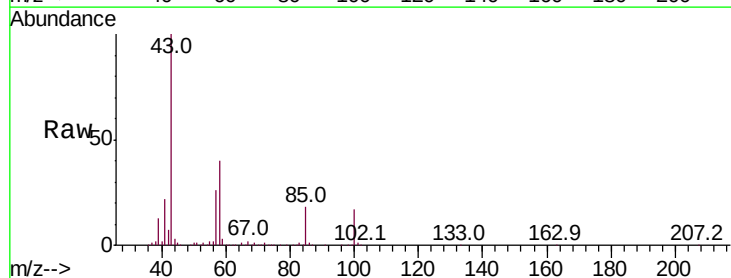
Tot Ion: 75 Resp: 466822
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.5 39.9

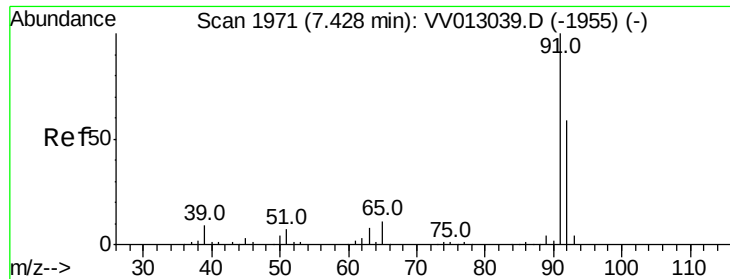


#43

4-Methyl-2-pentanone
 Concen: 44.388 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Tgt Ion: 43 Resp: 428124
 Ion Ratio Lower Upper
 43 100
 58 39.3 31.2 46.8
 100 15.9 12.2 18.2





#44

Toluene

Concen: 27.214 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

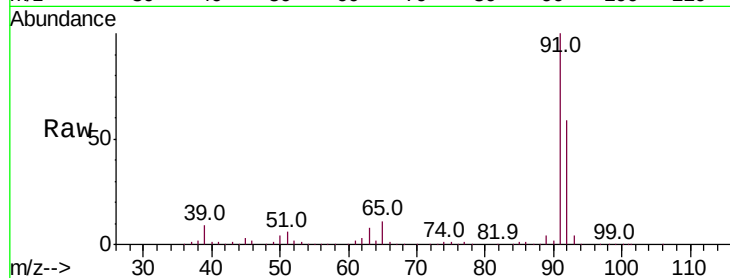
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1295732

Ion Ratio Lower Upper

91 100

92 59.4 41.3 76.7



Abundance Ion 91.00 (90.70 to 91.70): VV013039.D (-1955) (-)

Ion 92.00 (91.70 to 92.70): VV013039.D (-1955) (-)

7.43

800000

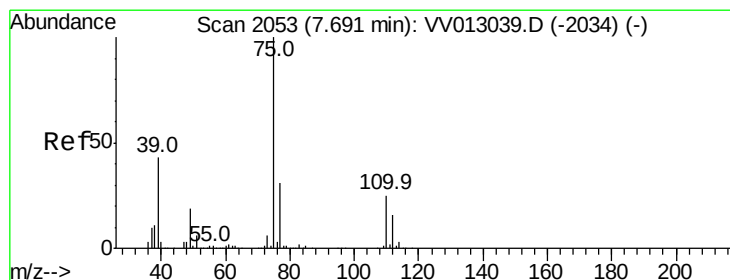
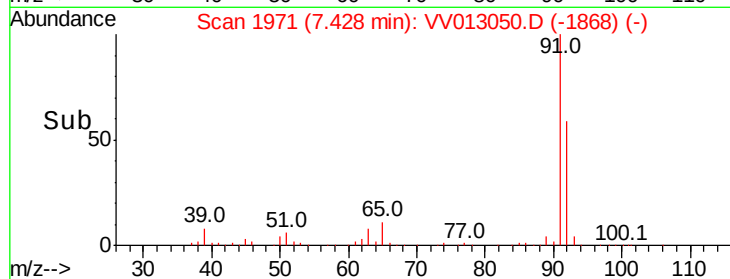
600000

400000

200000

0

Time--> 7.30 7.40 7.50 7.60



#45

trans-1,3-Dichloropropene

Concen: 26.205 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV013050.D

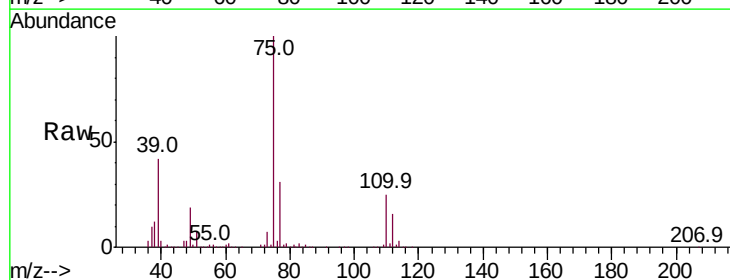
Acq: 07 Oct 2019 11:08

Tgt Ion: 75 Resp: 380453

Ion Ratio Lower Upper

75 100

77 31.4 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV013039.D (-2034) (-)

Ion 77.00 (76.70 to 77.70): VV013039.D (-2034) (-)

7.69

250000

200000

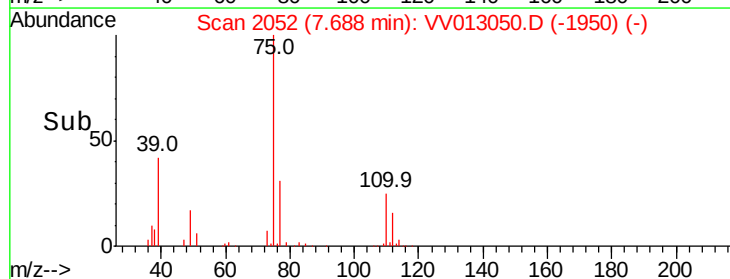
150000

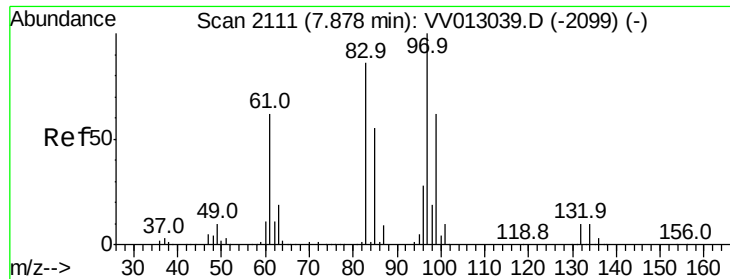
100000

50000

0

Time--> 7.60 7.70 7.80

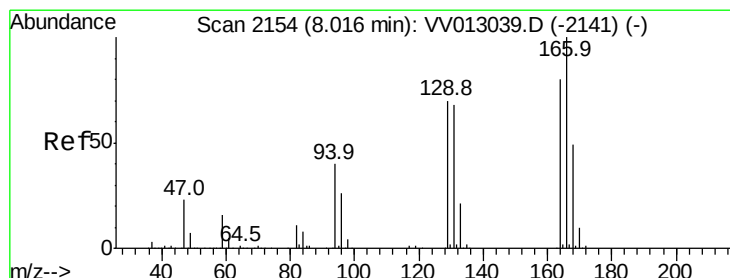
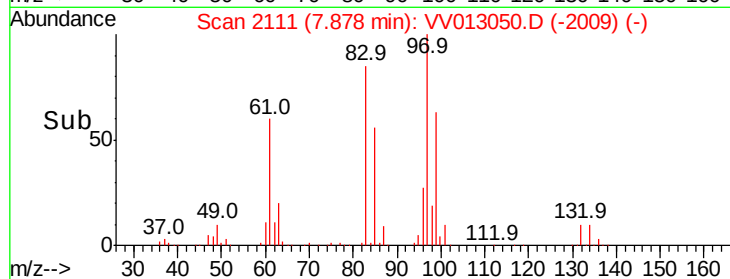
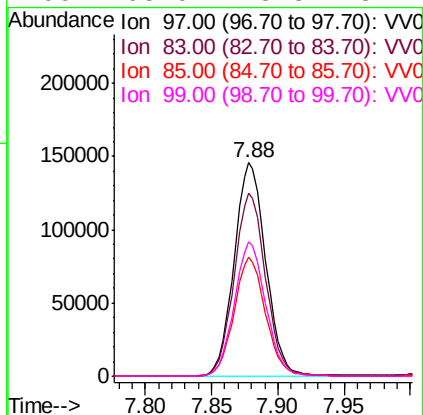
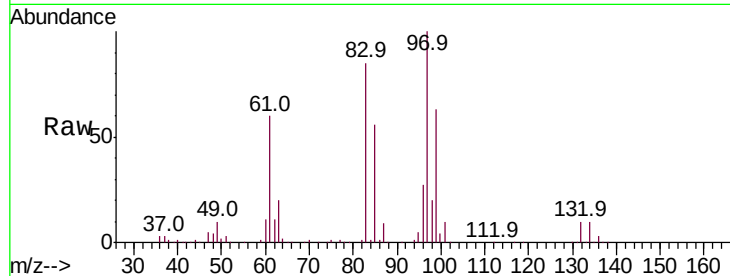




#46
 1,1,2-Trichloroethane
 Concen: 24.306 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

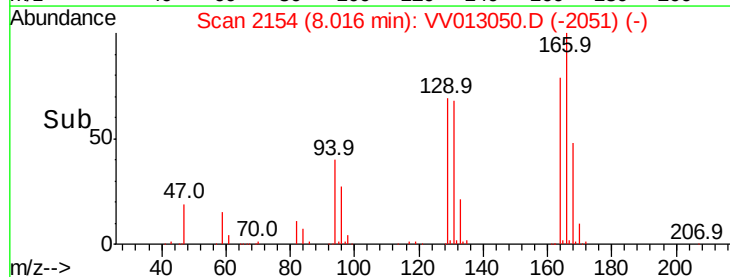
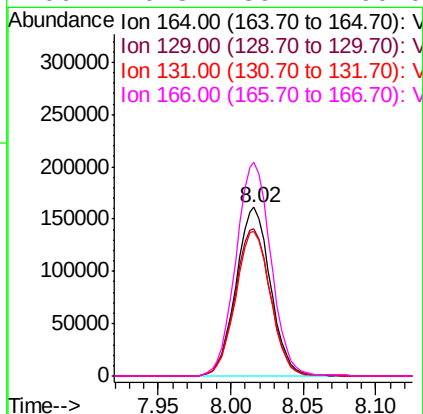
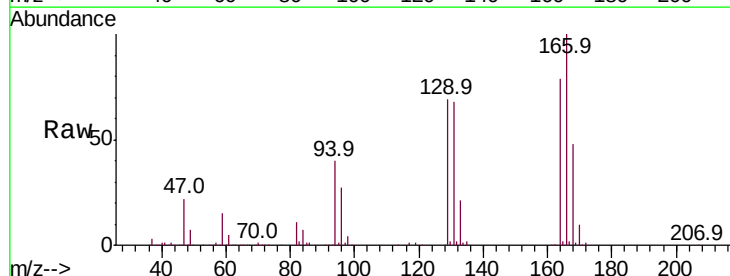
Instrument :
 MSVOA_V
 ClientSampleId :

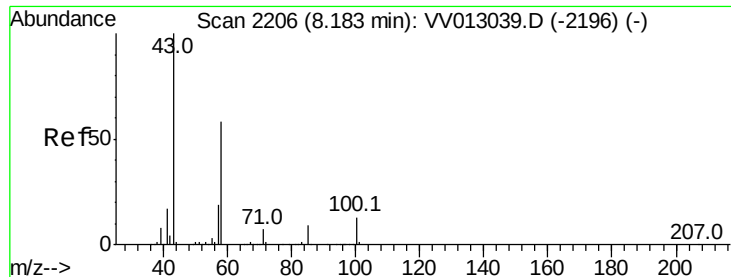
Tot Ion:	97	Resp:	242241
Ion	Ratio	Lower	Upper
97	100		
83	85.5	58.9	109.5
85	55.9	38.4	71.2
99	63.0	43.8	81.4



#47
 Tetrachloroethene
 Concen: 26.048 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Tgt Ion:	164	Resp:	266238
Ion	Ratio	Lower	Upper
164	100		
129	87.6	62.8	116.6
131	86.1	60.2	111.8
166	126.8	89.4	166.0

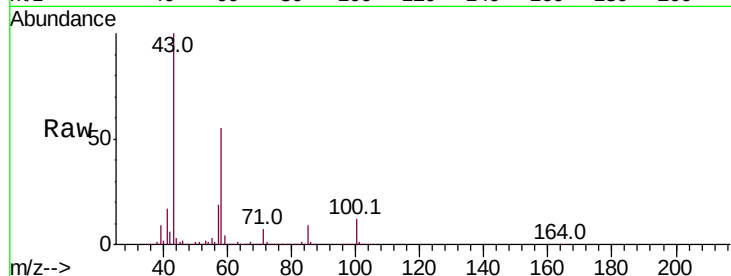




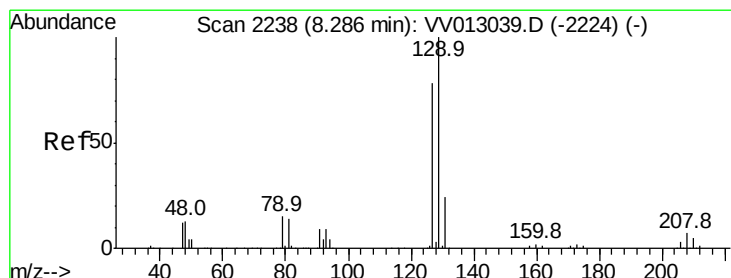
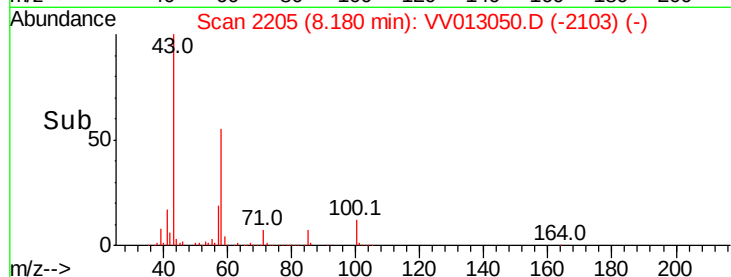
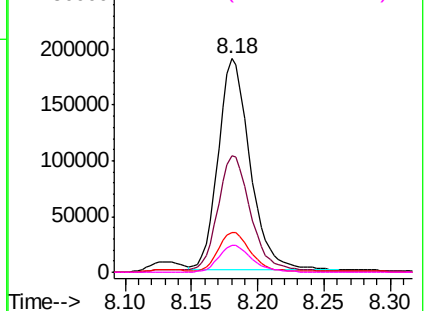
#49
2-Hexanone
Concen: 43.659 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 317423
Ion Ratio Lower Upper
43 100
58 55.8 46.5 69.7
57 19.1 15.5 23.3
100 13.2 9.7 14.5

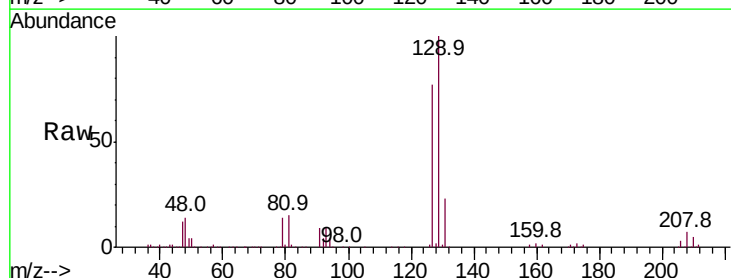


Abundance Ion 43.00 (42.70 to 43.70): VV013039.D (-2196) (-)
Ion 58.00 (57.70 to 58.70): VV013039.D (-2196) (-)
Ion 57.00 (56.70 to 57.70): VV013039.D (-2196) (-)
Ion 100.00 (99.70 to 100.70): VV013039.D (-2196) (-)

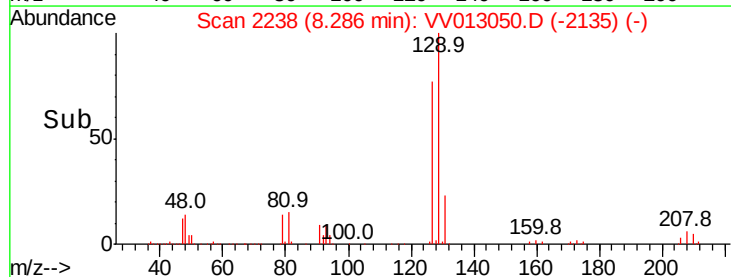
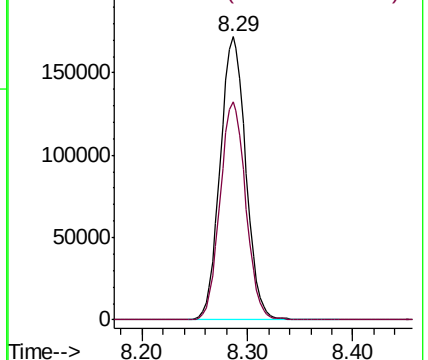


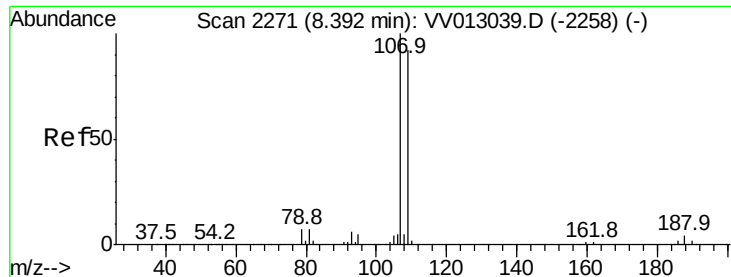
#50
Dibromochloromethane
Concen: 25.291 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Tgt Ion: 129 Resp: 289705
Ion Ratio Lower Upper
129 100
127 76.9 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): VV013039.D (-2224) (-)
Ion 127.00 (126.70 to 127.70): VV013039.D (-2224) (-)

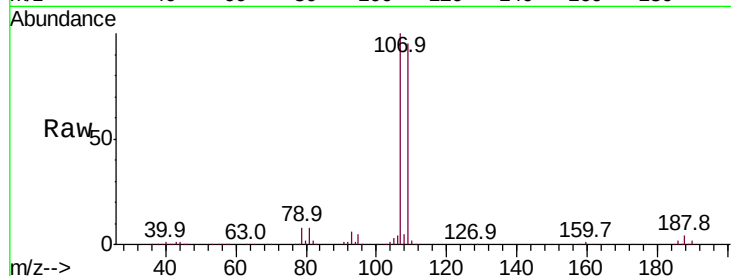




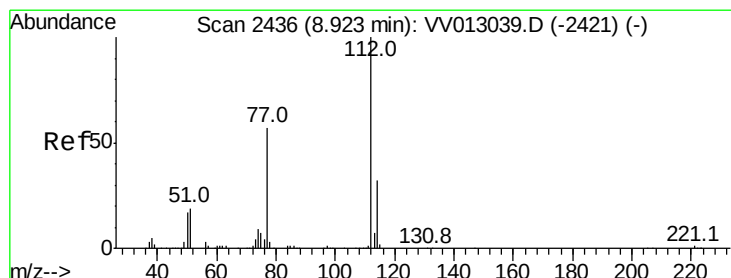
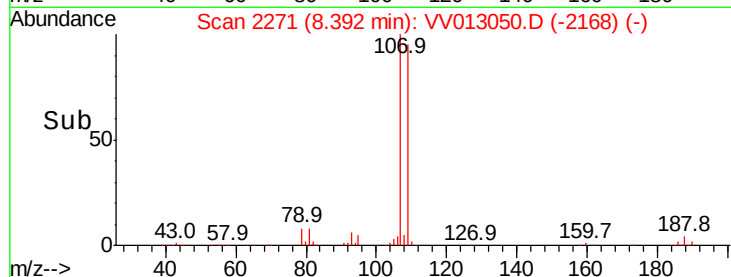
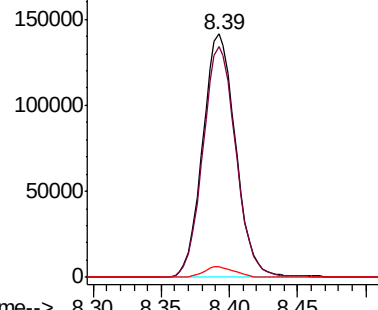
#51
 1,2-Dibromoethane
 Concen: 24.390 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.9	66.1	122.8
188	4.4	3.1	4.7

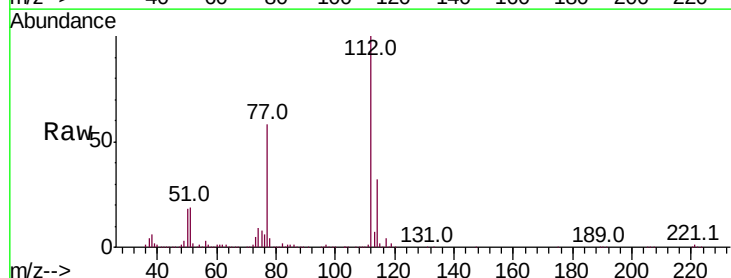


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

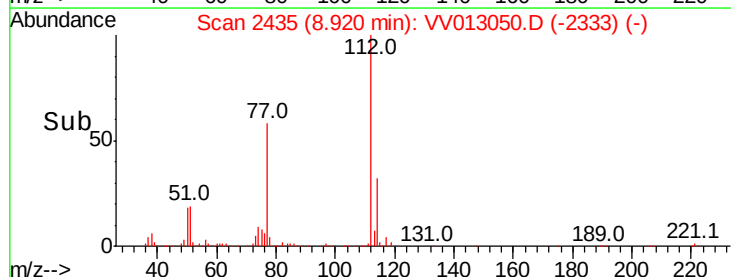
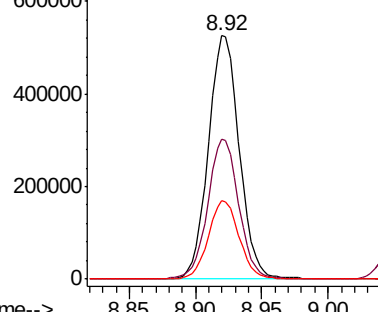


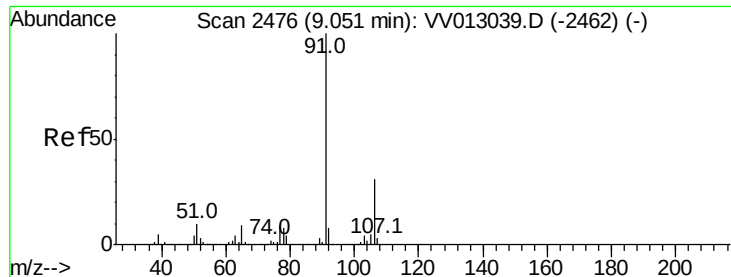
#52
 Chlorobenzene
 Concen: 25.872 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Tgt Ion	Ratio	Lower	Upper
112	100		
77	57.7	46.3	69.5
114	32.1	22.5	41.7



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 77.00 (76.70 to 77.70): V
 Ion 114.00 (113.70 to 114.70): V

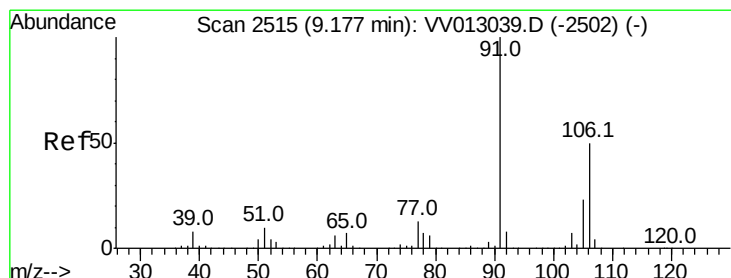
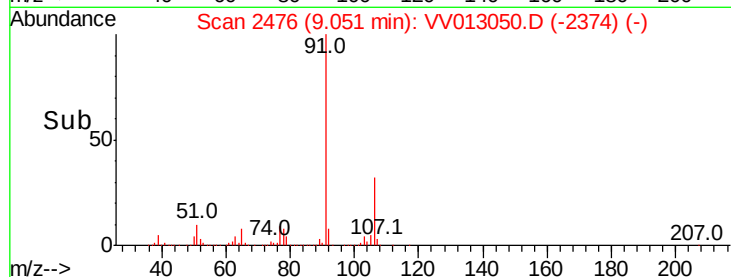
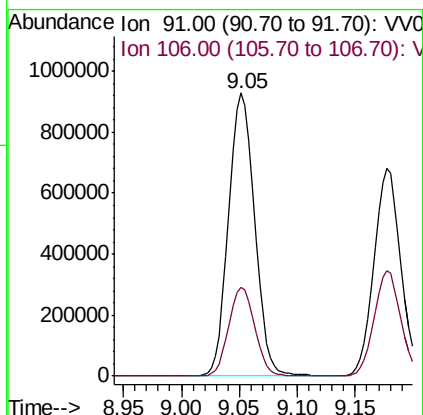
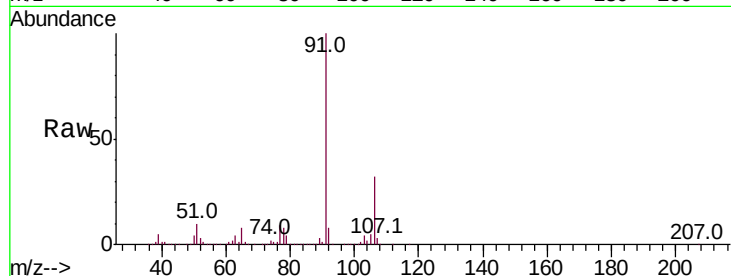




#53
Ethylbenzene
Concen: 27.537 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

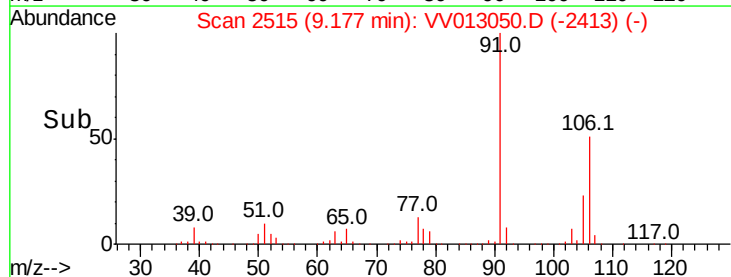
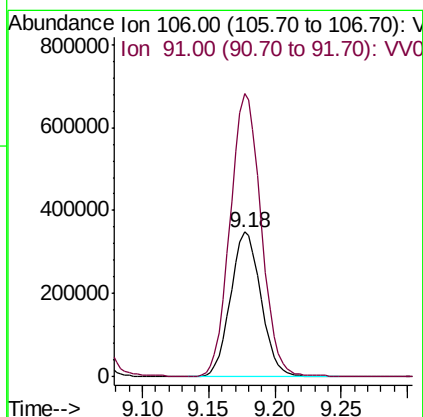
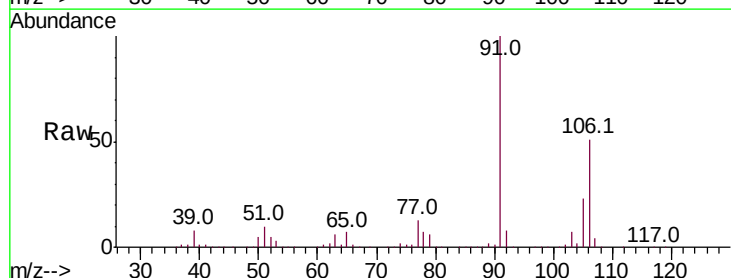
Instrument :
MSVOA_V
ClientSampled :

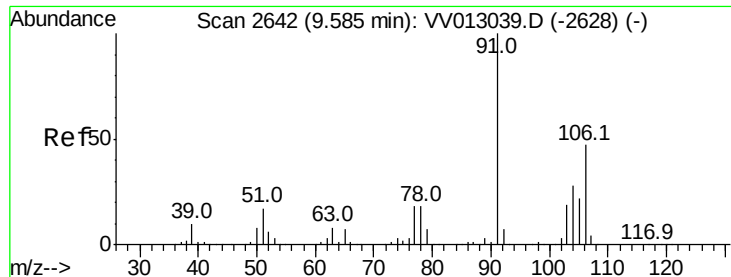
Tot Ion: 91 Resp: 1443595
Ion Ratio Lower Upper
91 100
106 31.6 21.8 40.4



#54
m,p-Xylene
Concen: 28.002 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Tgt Ion: 106 Resp: 558067
Ion Ratio Lower Upper
106 100
91 195.8 140.1 260.3





#55

o-xylene

Concen: 28.247 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

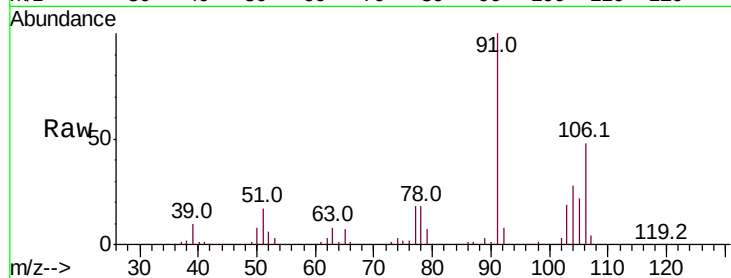
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 536390

Ion Ratio Lower Upper

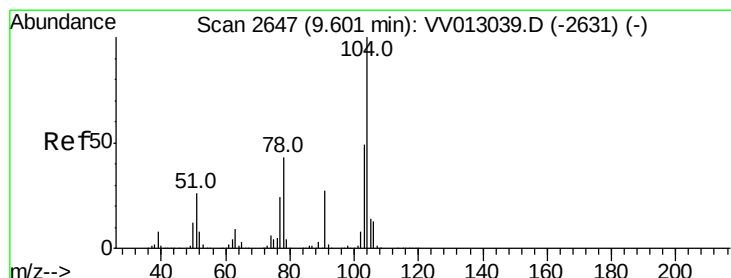
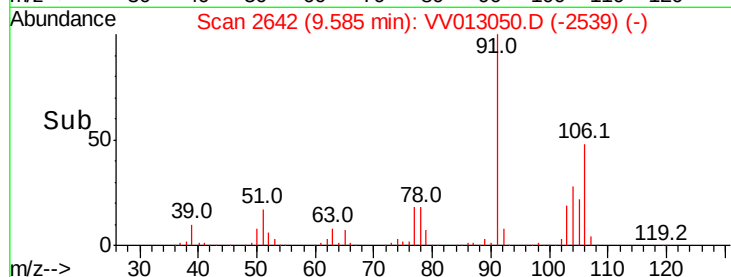
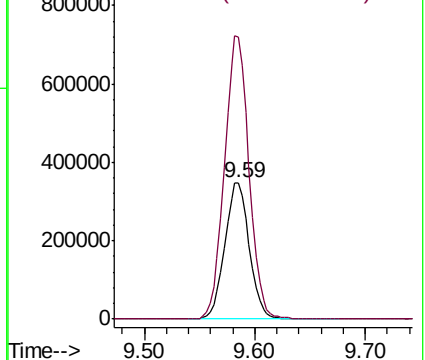
106 100

91 207.3 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 27.875 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV013050.D

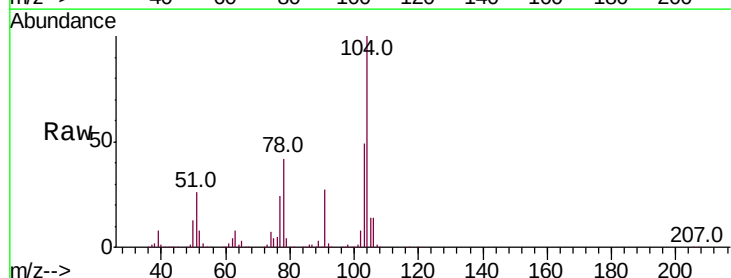
Acq: 07 Oct 2019 11:08

Tgt Ion:104 Resp: 931344

Ion Ratio Lower Upper

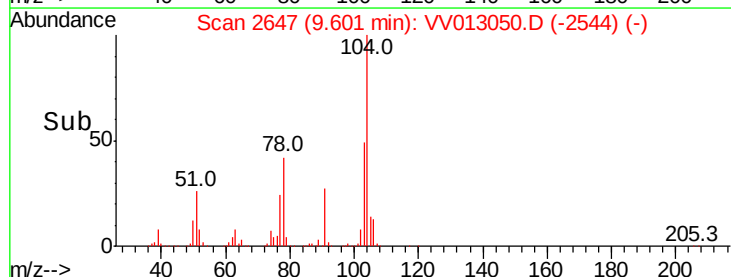
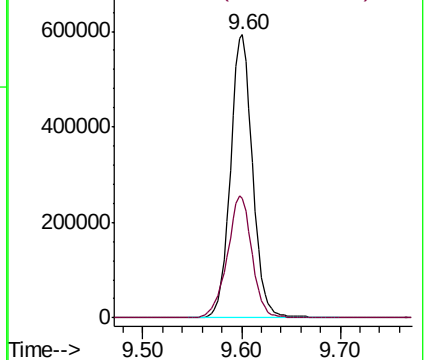
104 100

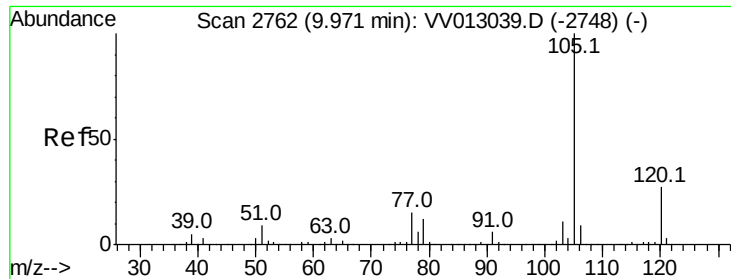
78 42.1 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 28.566 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

Instrument :
MSVOA_V
ClientSampleId :

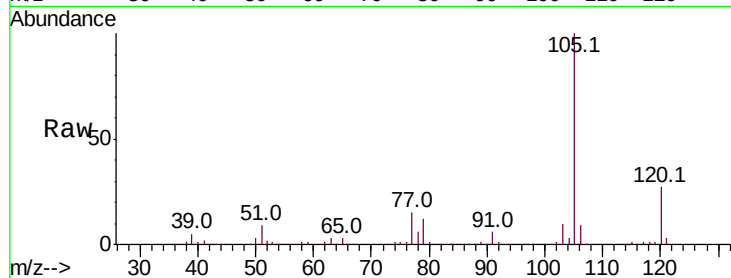
Tot Ion:105 Resp: 1425572

Ion Ratio Lower Upper

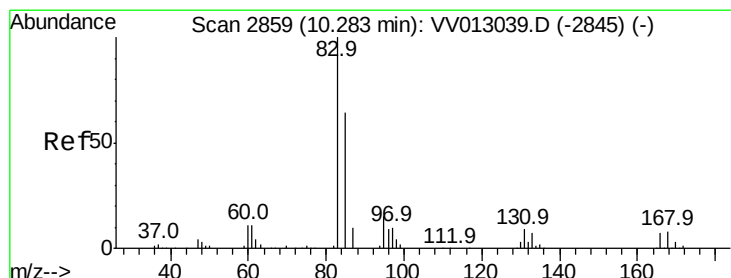
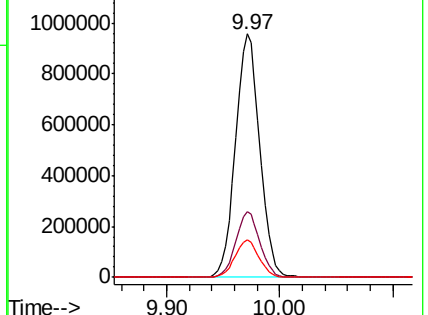
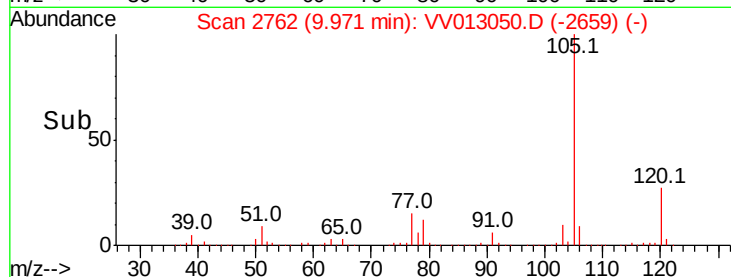
105 100

120 26.7 21.4 32.0

77 15.0 12.2 18.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 23.442 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

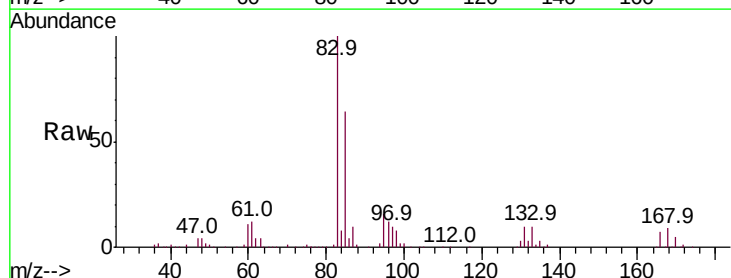
Tgt Ion: 83 Resp: 289005

Ion Ratio Lower Upper

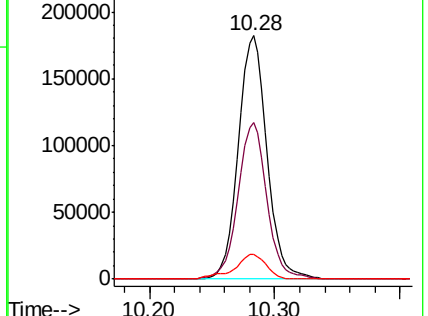
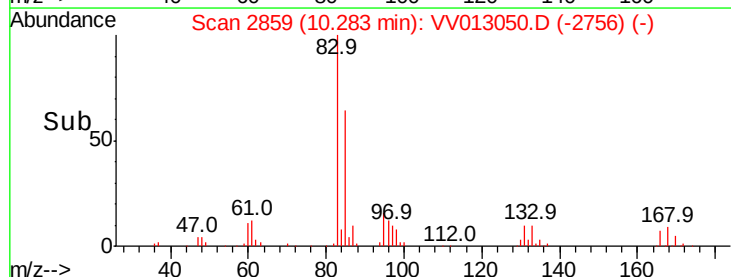
83 100

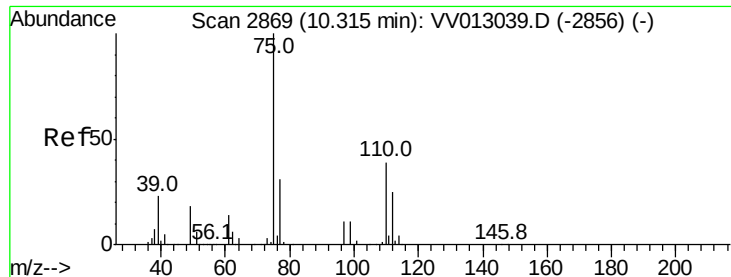
85 64.3 45.4 84.2

131 10.2 8.2 12.2



Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.202 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

Instrument :

MSVOA_V

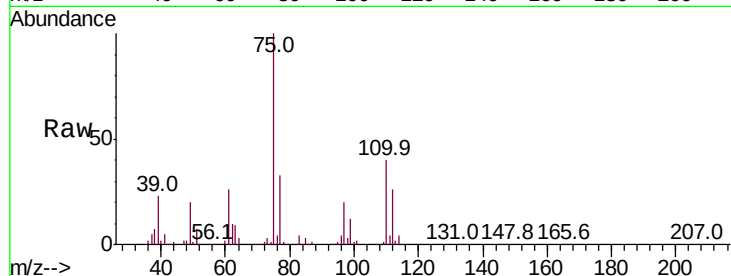
ClientSampleId :

Tot Ion: 75 Resp: 225920

Ion Ratio Lower Upper

75 100

77 32.3 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV013039.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV013039.D (-2856) (-)

10.31

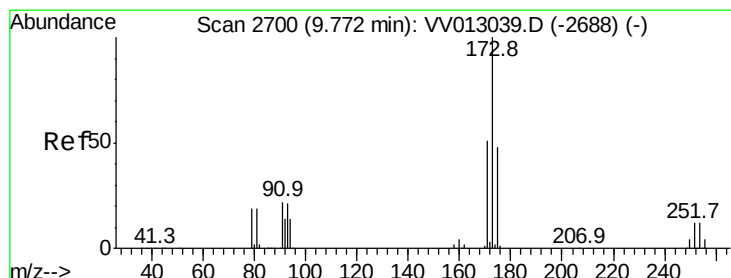
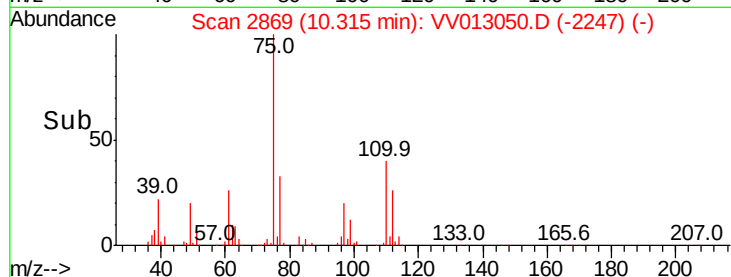
150000

100000

50000

0

Time-->



#62

Bromoform

Concen: 24.654 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

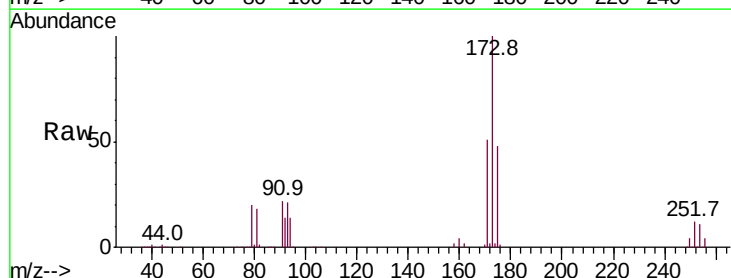
Tgt Ion: 173 Resp: 180797

Ion Ratio Lower Upper

173 100

175 48.7 39.5 59.3

254 11.6 9.1 13.7



Abundance Ion 173.00 (172.70 to 173.70): VV013039.D (-2688) (-)

Ion 175.00 (174.70 to 175.70): VV013039.D (-2688) (-)

Ion 254.00 (253.70 to 254.70): VV013039.D (-2688) (-)

9.77

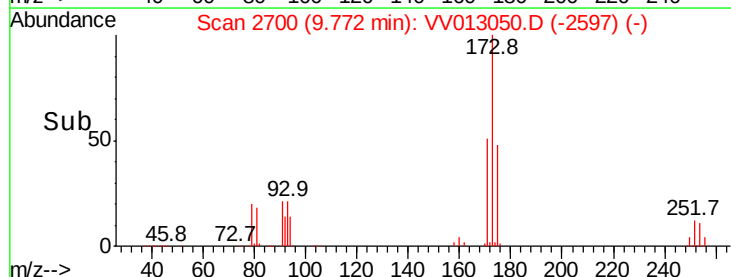
150000

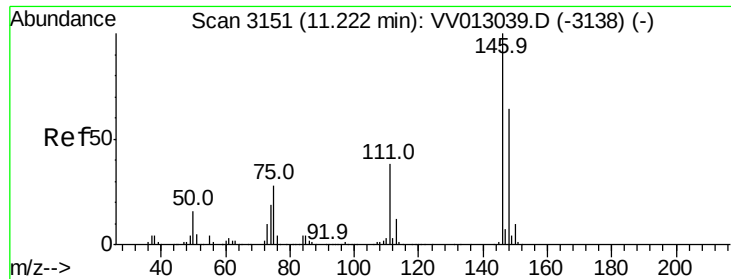
100000

50000

0

Time-->

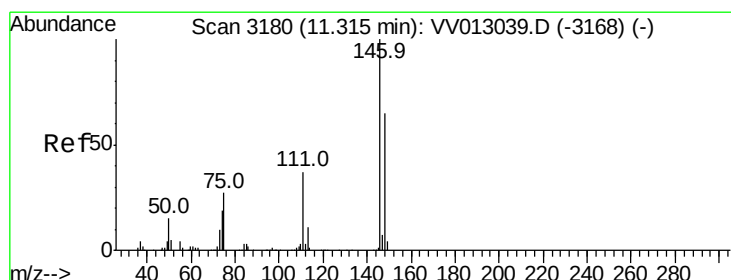
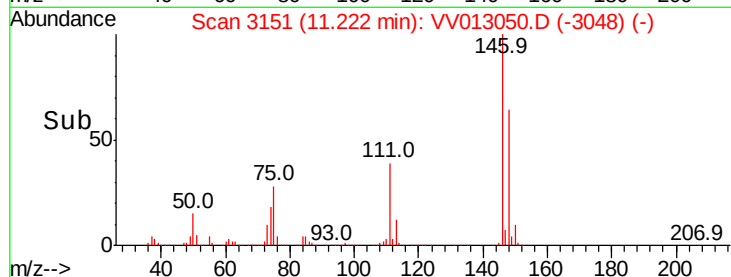
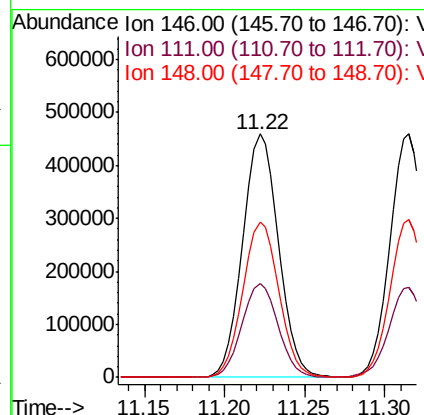
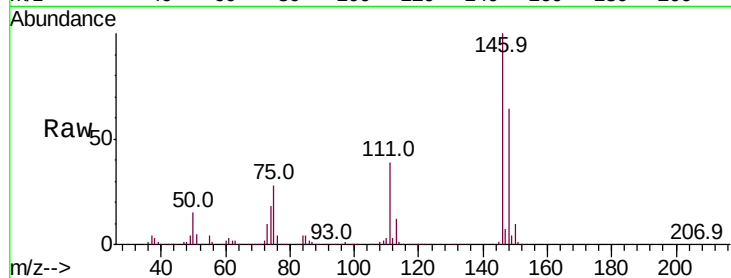




#63
 1,3-Dichlorobenzene
 Concen: 26.367 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

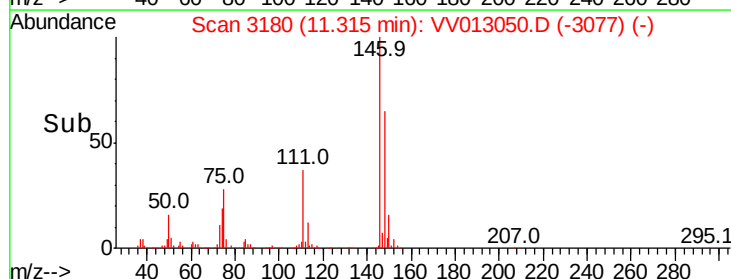
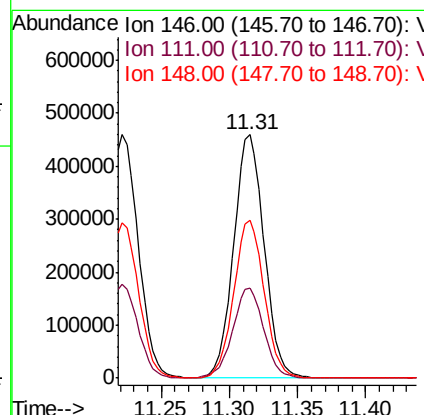
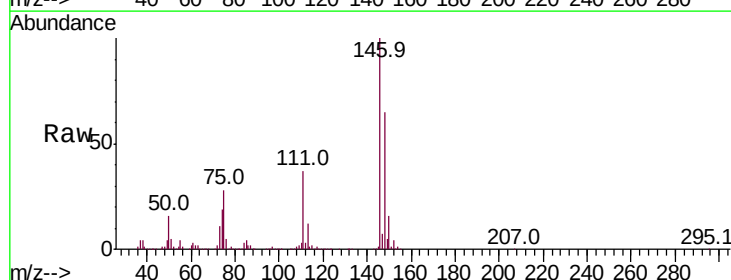
Instrument :
 MSVOA_V
 ClientSampleId :

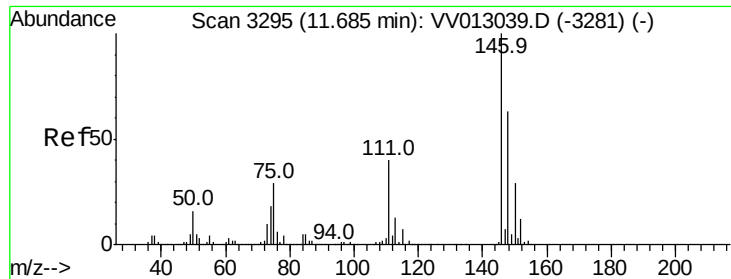
Tot Ion:146 Resp: 701372
 Ion Ratio Lower Upper
 146 100
 111 38.5 26.7 49.7
 148 64.2 43.9 81.5



#64
 1,4-Dichlorobenzene
 Concen: 25.429 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Tgt Ion:146 Resp: 709946
 Ion Ratio Lower Upper
 146 100
 111 36.7 25.5 47.3
 148 64.8 45.1 83.9

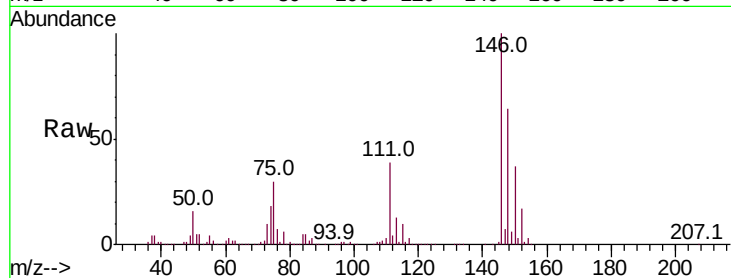




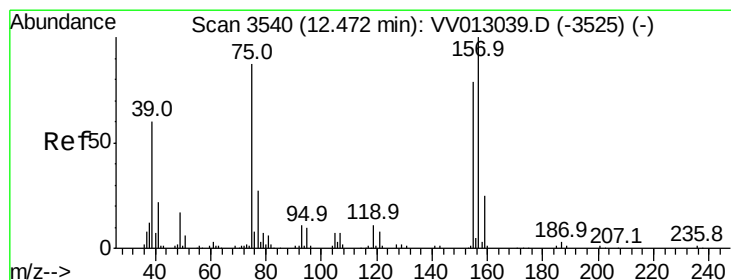
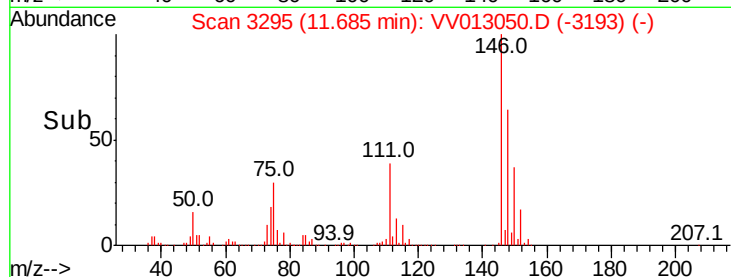
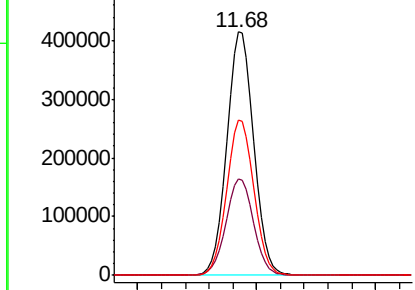
#65
1,2-Dichlorobenzene
Concen: 25.590 ug/L
RT: 11.68 min Scan# 3295
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:146 Resp: 649289
Ion Ratio Lower Upper
146 100
111 39.5 31.9 47.9
148 64.0 51.0 76.6

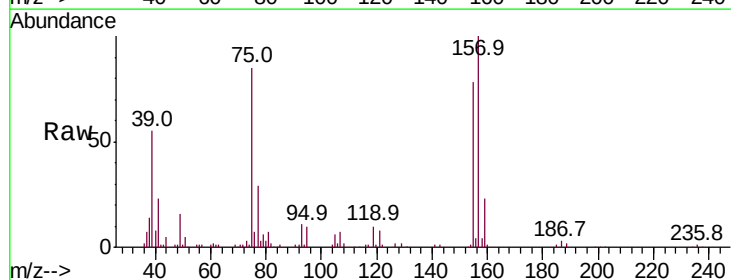


Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

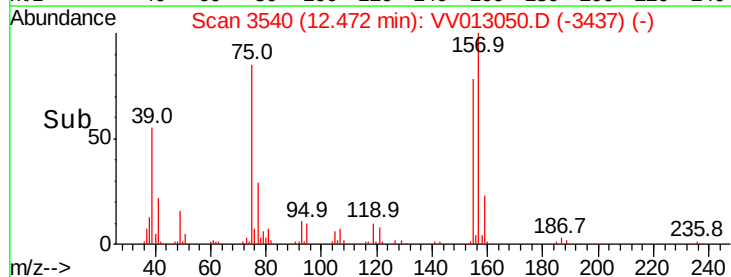
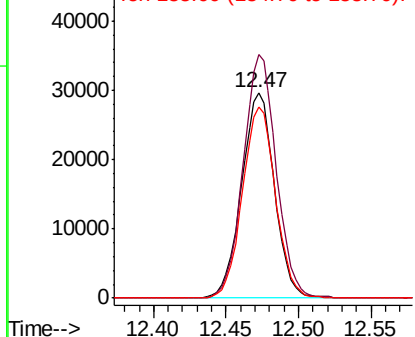


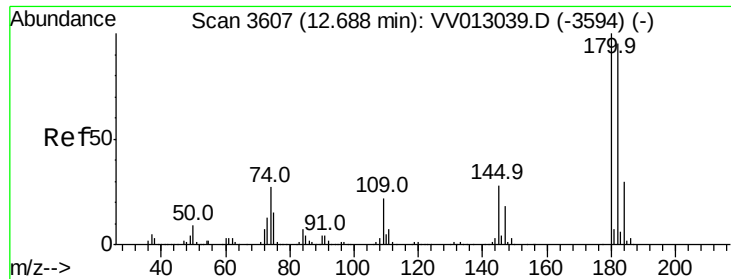
#66
1,2-Dibromo-3-chloropropane
Concen: 20.787 ug/L
RT: 12.47 min Scan# 3540
Delta R.T. -0.00 min
Lab File: VV013050.D
Acq: 07 Oct 2019 11:08

Tgt Ion: 75 Resp: 46761
Ion Ratio Lower Upper
75 100
157 118.3 91.7 137.5
155 92.7 70.8 106.2



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 157.00 (156.70 to 157.70): V
Ion 155.00 (154.70 to 155.70): V

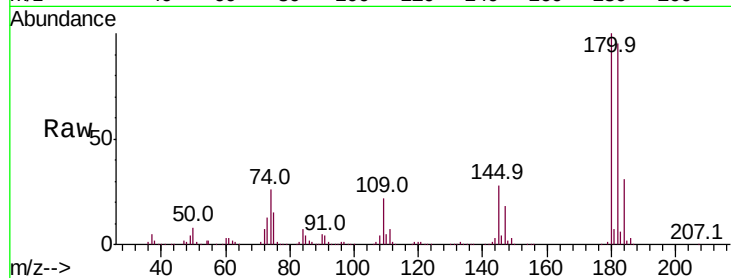




#67
 1,3,5-Trichlorobenzene
 Concen: 26.640 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.4	114.6
184	30.7	24.6	37.0
145	27.8	22.2	33.4



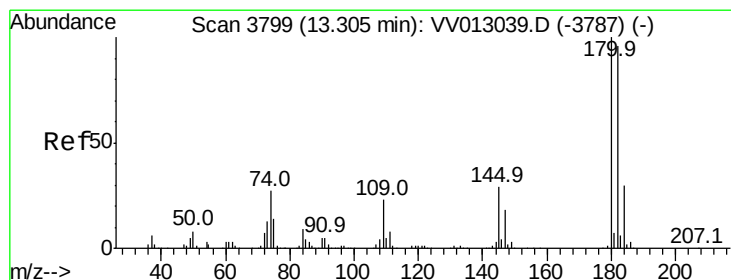
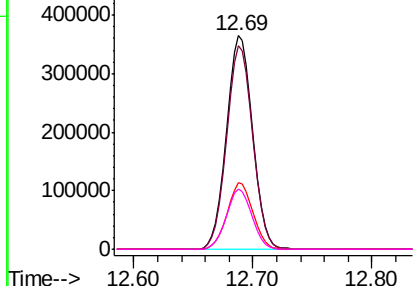
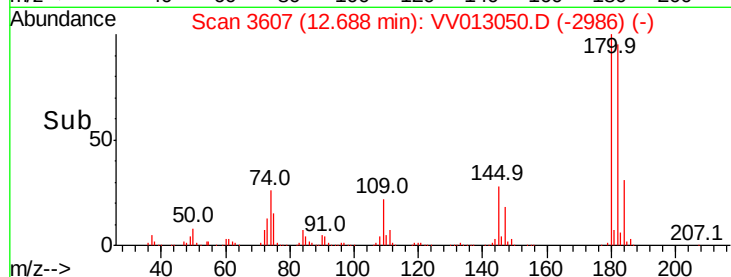
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

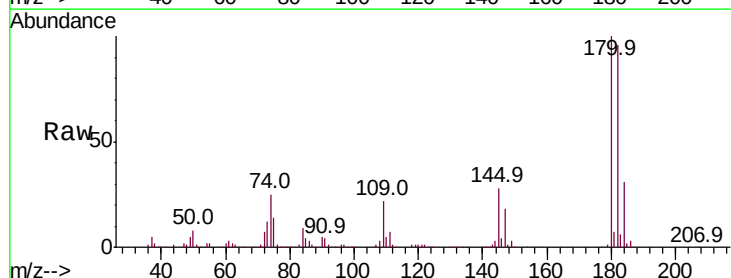
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.820 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013050.D
 Acq: 07 Oct 2019 11:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.8	115.2
145	28.3	22.6	34.0

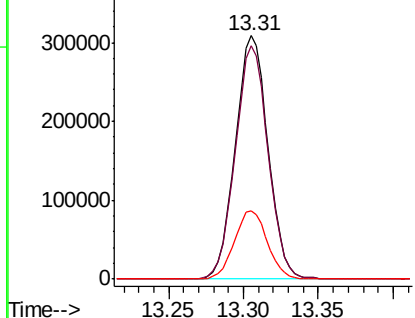
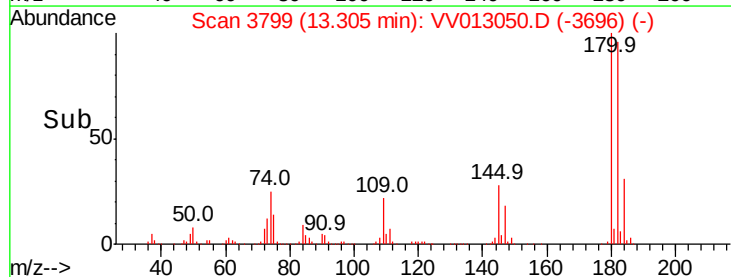


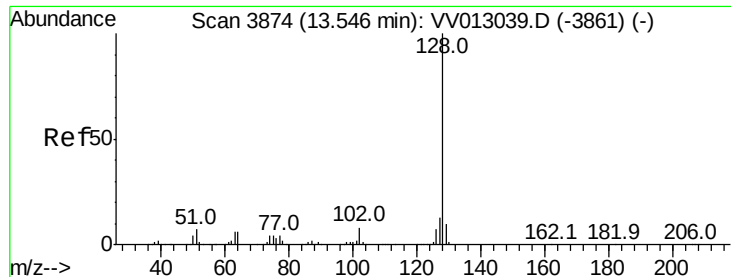
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 24.305 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

Instrument :

MSVOA_V

ClientSampleId :

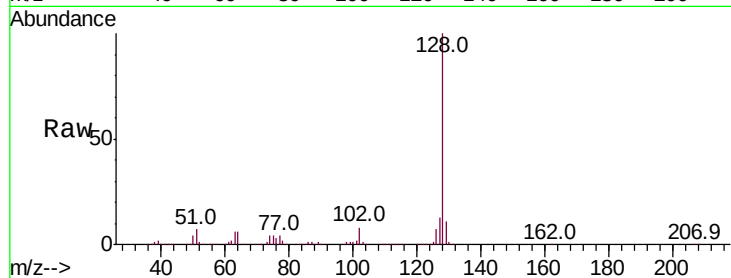
Tot Ion:128 Resp: 889491

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

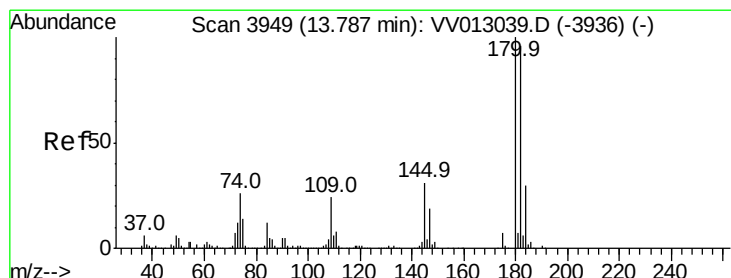
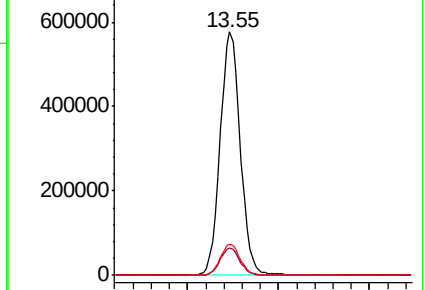
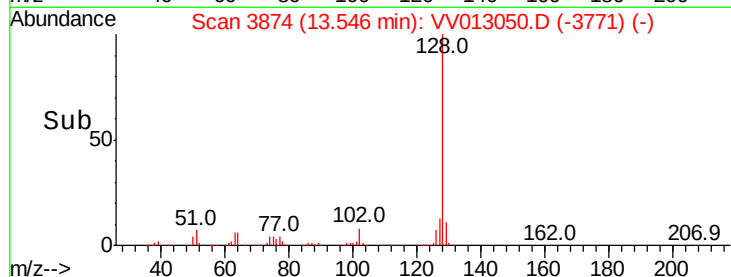
127 12.8 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.005 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013050.D

Acq: 07 Oct 2019 11:08

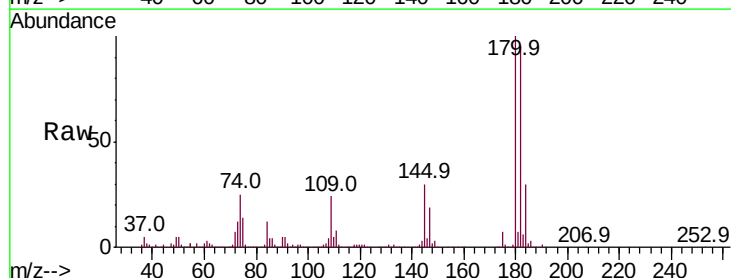
Tgt Ion:180 Resp: 437447

Ion Ratio Lower Upper

180 100

182 96.1 77.4 116.2

145 29.9 23.9 35.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

