

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120220\
 Data File : VV019456.D
 Acq On : 02 Dec 2020 19:08
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05074

Quant Time: Dec 03 05:52:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM112320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 03 05:50:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	364707	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	364495	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	198307	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	123846	34.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	68.00%
7) Chloroethane-d5	1.58	69	118595	40.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.00%
11) 1,1-Dichloroethene-d2	2.12	63	280122	43.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.40%
21) 2-Butanone-d5	3.90	46	247669	111.56	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.56%
24) Chloroform-d	4.37	84	279509	47.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.94%
26) 1,2-Dichloroethane-d4	5.05	65	185187	48.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.10%
32) Benzene-d6	5.07	84	504398	46.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.62%
36) 1,2-Dichloropropane-d6	6.09	67	176277	49.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.32%
41) Toluene-d8	7.33	98	449852	46.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.20%
43) trans-1,3-Dichloropropene-	7.64	79	83578	48.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.52%
47) 2-Hexanone-d5	8.10	63	160000	113.25	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.25%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	239440	51.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.18%
64) 1,2-Dichlorobenzene-d4	11.64	152	174789	45.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.78%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	126900	43.048	ug/L 99
3) Chloromethane	1.25	50	169389	42.728	ug/L 98
5) Vinyl chloride	1.32	62	171196	45.196	ug/L 99
6) Bromomethane	1.53	94	133056	53.881	ug/L 100
8) Chloroethane	1.59	64	119420	49.537	ug/L 98
9) Trichlorofluoromethane	1.76	101	233423	49.080	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	122283	47.813	ug/L 97
12) 1,1-Dichloroethene	2.13	96	130612	49.053	ug/L 94
13) Acetone	2.18	43	168623	99.335	ug/L 97
14) Carbon disulfide	2.31	76	375813	48.627	ug/L 100
15) Methyl Acetate	2.44	43	195574	56.902	ug/L 97
16) Methylene chloride	2.52	84	156681	50.802	ug/L 94
17) trans-1,2-Dichloroethene	2.78	96	132074	50.151	ug/L 96
18) Methyl tert-butyl Ether	2.78	73	447427	53.429	ug/L 98
19) 1,1-Dichloroethane	3.21	63	288728	53.449	ug/L 99
20) cis-1,2-Dichloroethene	3.94	96	147106	50.830	ug/L 94
22) 2-Butanone	3.98	43	255787	113.619	ug/L 99

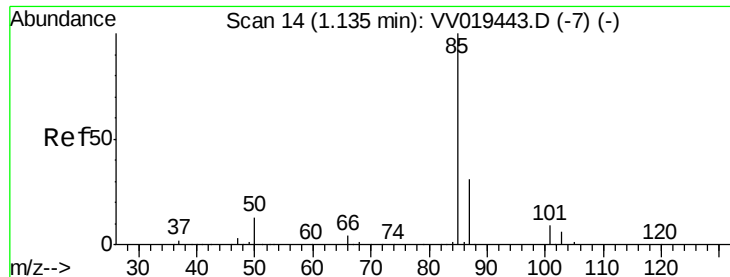
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120220\
 Data File : VV019456.D
 Acq On : 02 Dec 2020 19:08
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Quant Time: Dec 03 05:52:40 2020
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 Quant Title : VOC Analysis
 QLast Update : Thu Dec 03 05:50:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	76065	49.628	ug/L	92
25) Chloroform	4.40	83	286733	52.509	ug/L	98
27) 1,2-Dichloroethane	5.15	62	237217	55.365	ug/L	97
29) Cyclohexane	4.70	56	200384	52.518	ug/L	97
30) 1,1,1-Trichloroethane	4.63	97	236432	53.700	ug/L	98
31) Carbon tetrachloride	4.85	117	197442	52.237	ug/L	100
33) Benzene	5.12	78	593296	54.391	ug/L	100
34) Trichloroethene	5.94	95	155668	51.174	ug/L	97
35) Methylcyclohexane	6.15	83	185190	51.736	ug/L	98
37) 1,2-Dichloropropane	6.20	63	170423	56.644	ug/L	99
38) Bromodichloromethane	6.53	83	216244	54.211	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	244323	54.975	ug/L	99
40) 4-Methyl-2-pentanone	7.24	43	515137	121.423	ug/L	99
42) Toluene	7.41	91	613054	54.178	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	244658	55.268	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	153110	54.345	ug/L	100
46) Tetrachloroethene	7.99	164	102556	48.544	ug/L	97
48) 2-Hexanone	8.15	43	412959	122.899	ug/L	97
49) Dibromochloromethane	8.26	129	160102	51.418	ug/L	97
50) 1,2-Dibromoethane	8.37	107	158062	52.864	ug/L	98
51) Chlorobenzene	8.90	112	376091	50.381	ug/L	99
52) Ethylbenzene	9.03	91	635986	52.373	ug/L	99
53) m,p-Xylene	9.16	106	234024	52.086	ug/L	99
54) o-xylene	9.56	106	229178	52.386	ug/L	98
55) Styrene	9.58	104	427243	54.555	ug/L	100
56) Isopropylbenzene	9.95	105	591182	51.579	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	234622	54.483	ug/L	99
59) 1,2,3-Trichloropropane	10.29	75	213198	53.945	ug/L	99
61) Bromoform	9.75	173	116911	51.568	ug/L	99
62) 1,3-Dichlorobenzene	11.20	146	288865	50.071	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	298657	49.253	ug/L	99
65) 1,2-Dichlorobenzene	11.66	146	297721	50.265	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	57984	56.574	ug/L	89
67) 1,3,5-Trichlorobenzene	12.67	180	204929	48.798	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	187118	50.326	ug/L	99
69) Naphthalene	13.52	128	497003	52.567	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	199003	51.206	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 43.048 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampled :

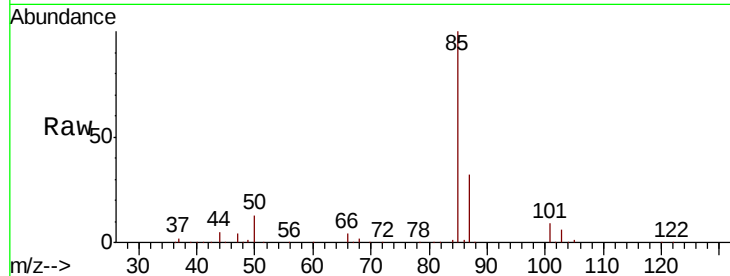
VSTD05074

Tot Ion: 85 Resp: 126900

Ion Ratio Lower Upper

85 100

87 32.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VV019443.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV019443.D (-7) (-)

1.14

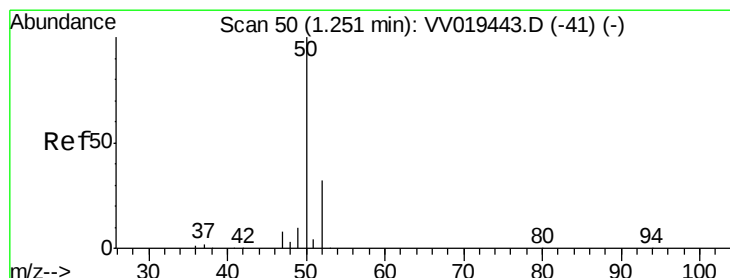
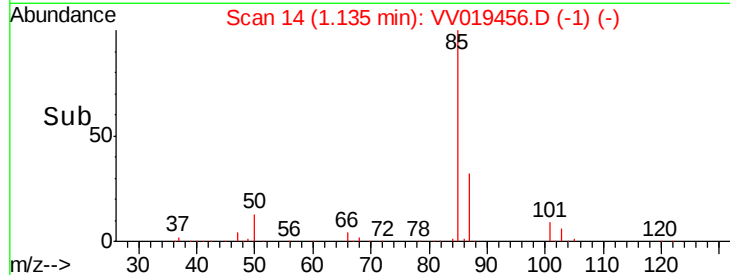
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 42.728 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019456.D

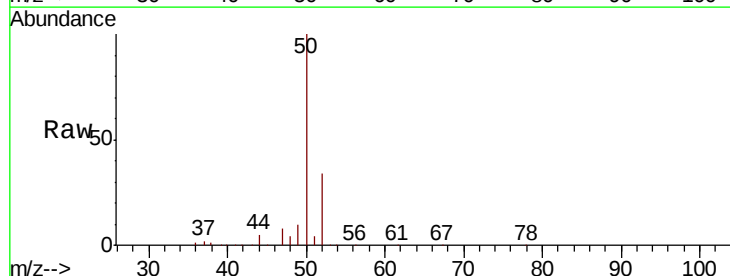
Acq: 02 Dec 2020 19:08

Tgt Ion: 50 Resp: 169389

Ion Ratio Lower Upper

50 100

52 34.1 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV019443.D (-41) (-)

Ion 52.00 (51.70 to 52.70): VV019443.D (-41) (-)

1.25

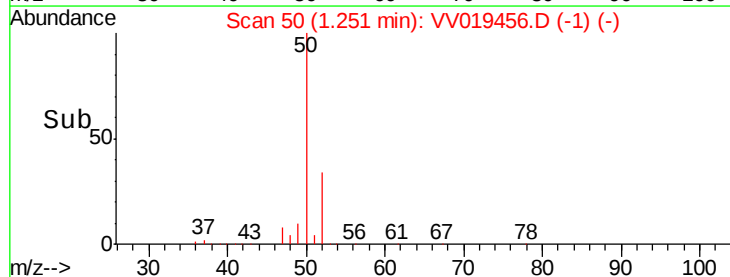
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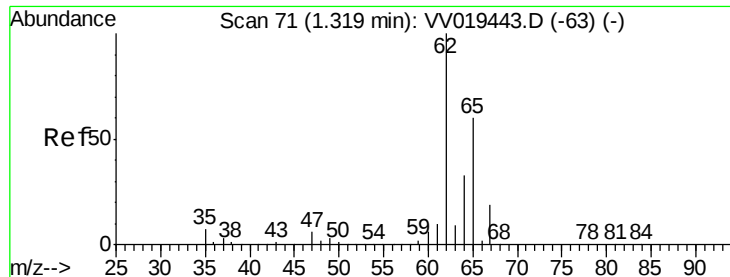
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 45.196 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

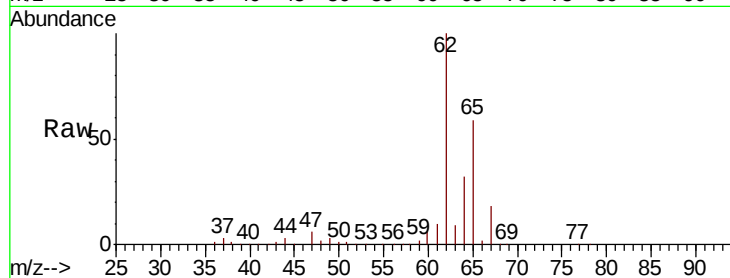
VSTD05074

Tot Ion: 62 Resp: 171196

Ion Ratio Lower Upper

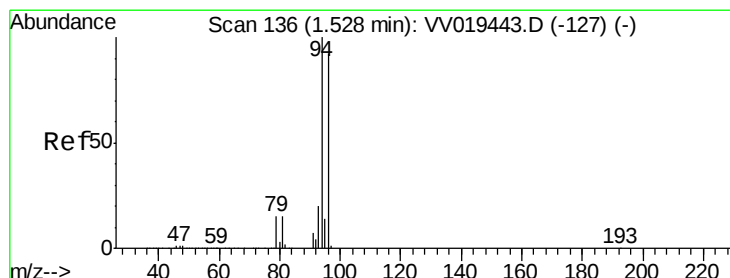
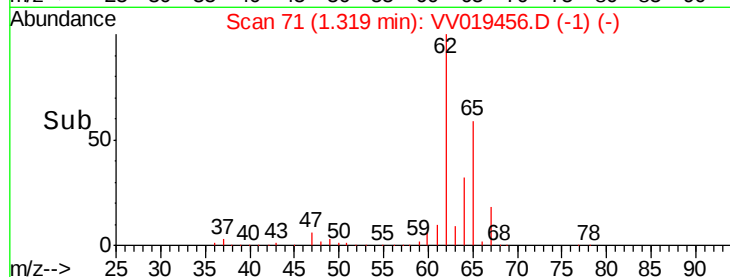
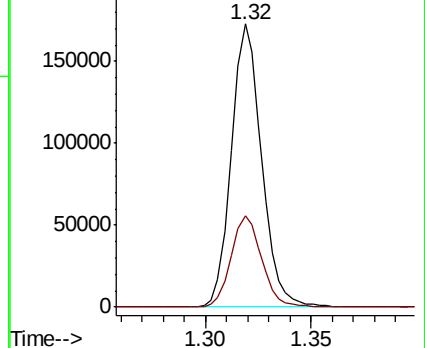
62 100

64 32.4 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 53.881 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV019456.D

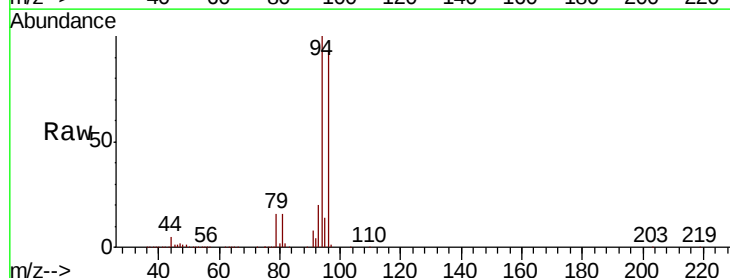
Acq: 02 Dec 2020 19:08

Tgt Ion: 94 Resp: 133056

Ion Ratio Lower Upper

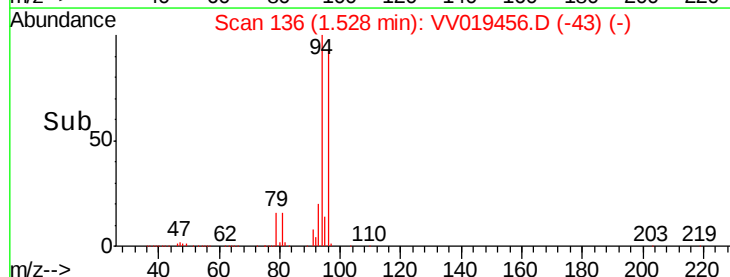
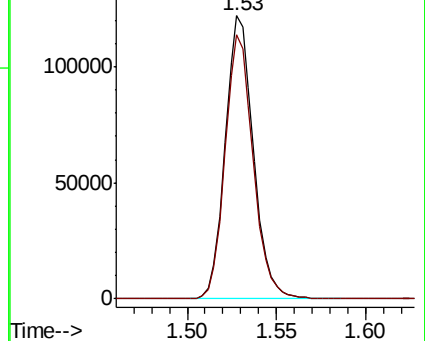
94 100

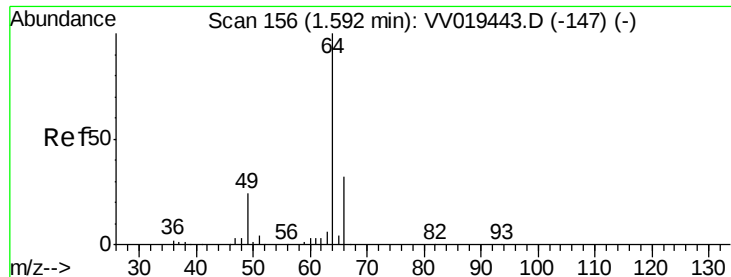
96 93.3 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 49.537 ug/L

RT: 1.59 min Scan# 156

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

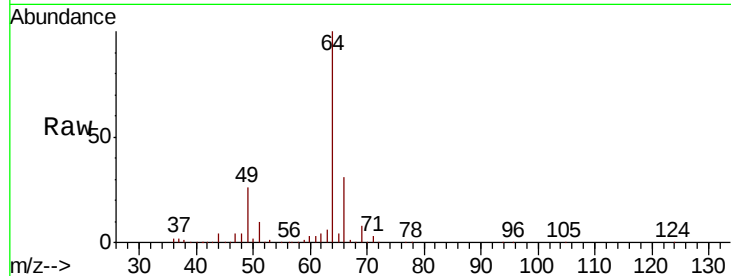
VSTD05074

Tot Ion: 64 Resp: 119420

Ion Ratio Lower Upper

64 100

66 31.0 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV019443.D (-147) (-)

Ion 66.00 (65.70 to 66.70): VV019443.D (-147) (-)

1.59

120000

100000

80000

60000

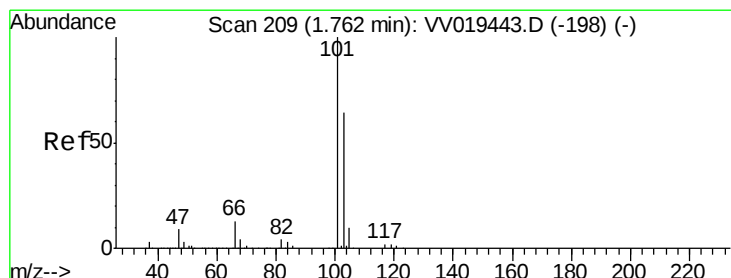
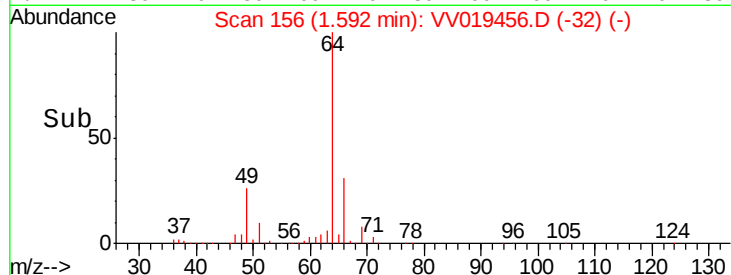
40000

20000

0

1.55 1.60 1.65 1.70

Time-->



#9

Trichlorofluoromethane

Concen: 49.080 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV019456.D

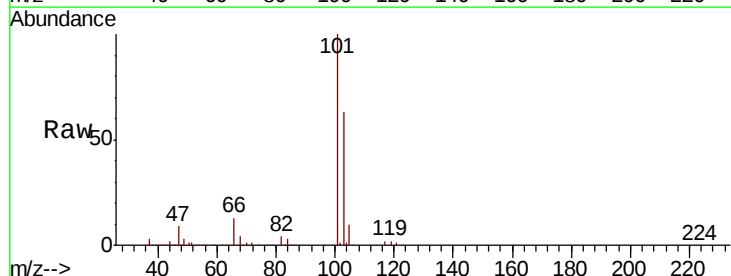
Acq: 02 Dec 2020 19:08

Tgt Ion: 101 Resp: 233423

Ion Ratio Lower Upper

101 100

103 63.9 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV019443.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV019443.D (-198) (-)

1.76

200000

150000

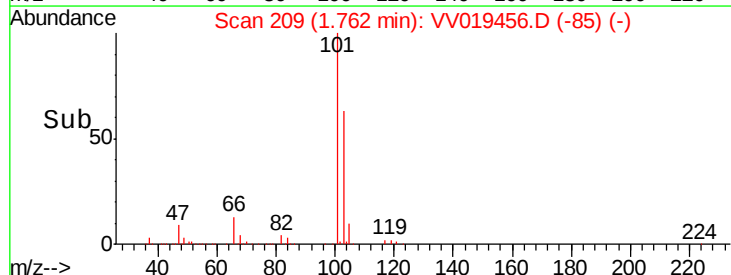
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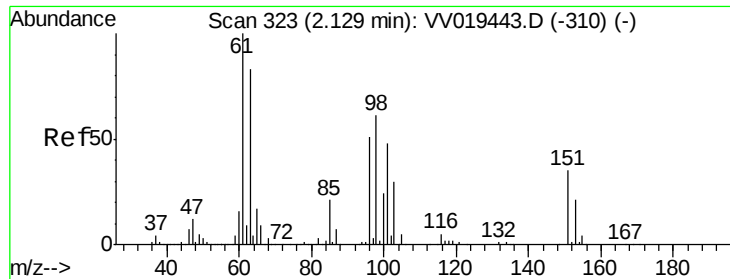
50000

0

1.70 1.75 1.80 1.85

Time-->





#10

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

Concen: 47.813 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

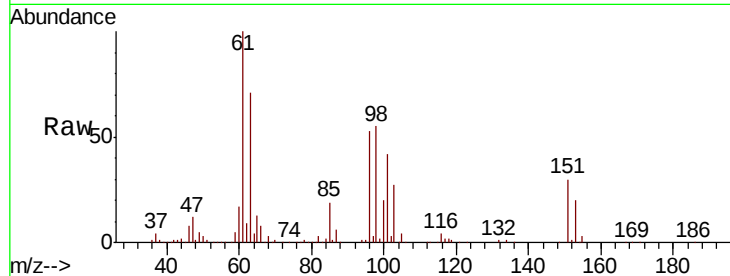
Tot Ion:101 Resp: 122283

Ion Ratio Lower Upper

101 100

85 45.3 35.5 53.3

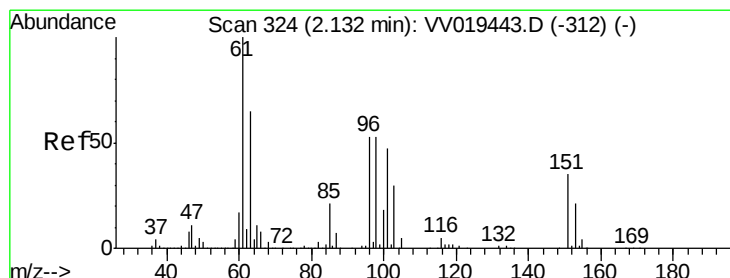
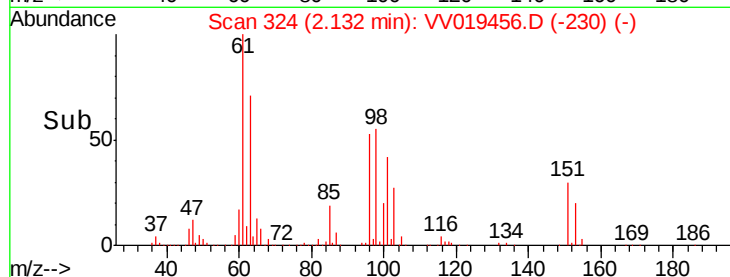
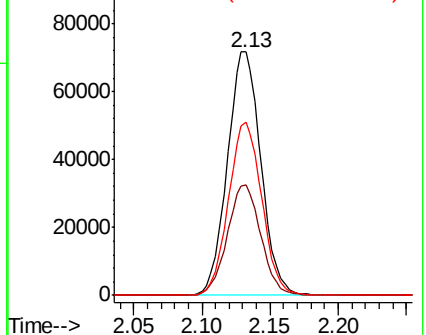
151 70.5 58.9 88.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.053 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

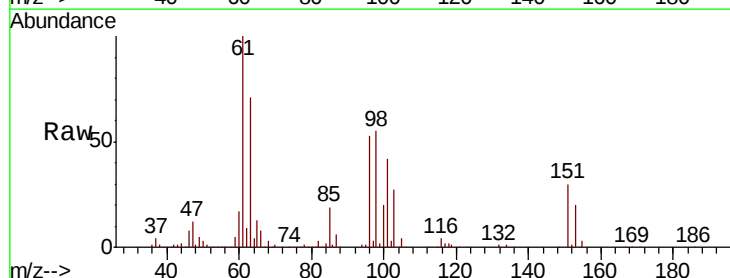
Tgt Ion: 96 Resp: 130612

Ion Ratio Lower Upper

96 100

61 187.1 130.0 241.4

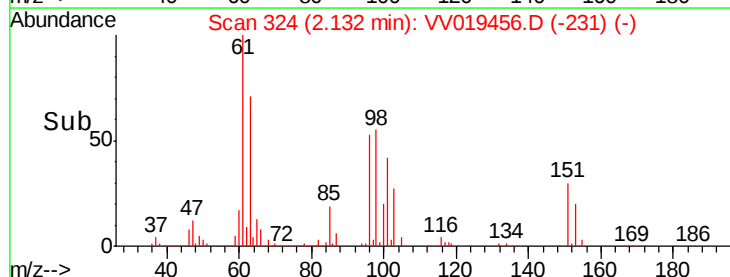
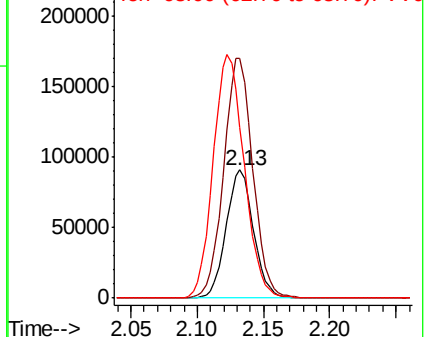
63 133.5 105.1 195.3

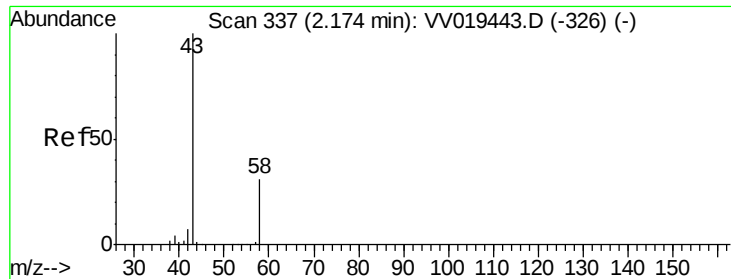


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 99.335 ug/L

RT: 2.18 min Scan# 338

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

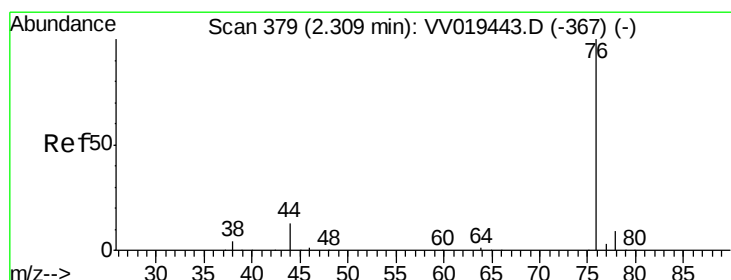
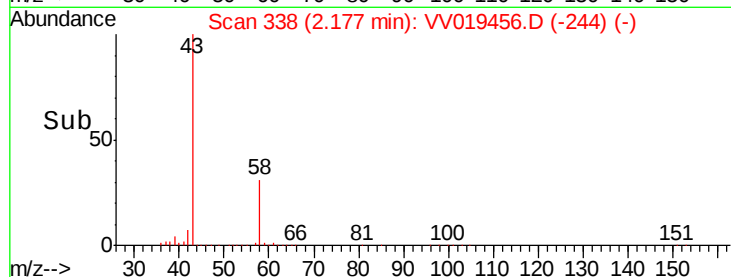
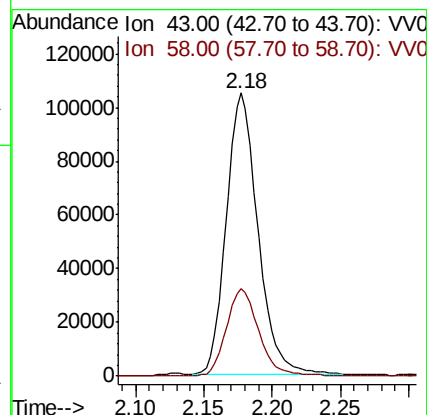
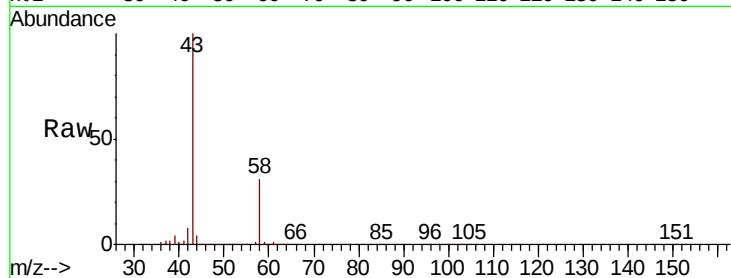
VSTD05074

Tot Ion: 43 Resp: 168623

Ion Ratio Lower Upper

43 100

58 31.5 0.0 66.4



#14

Carbon disulfide

Concen: 48.627 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV019456.D

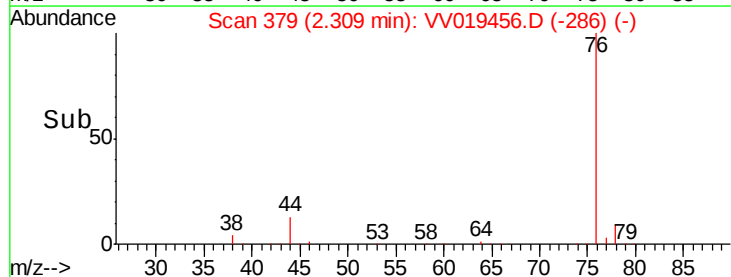
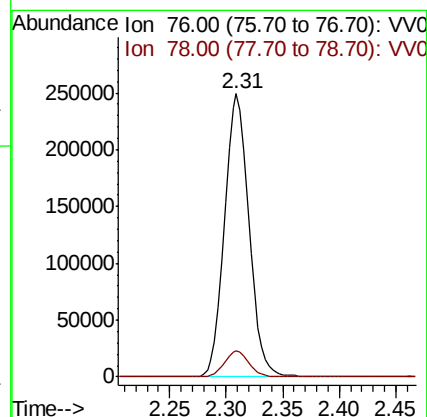
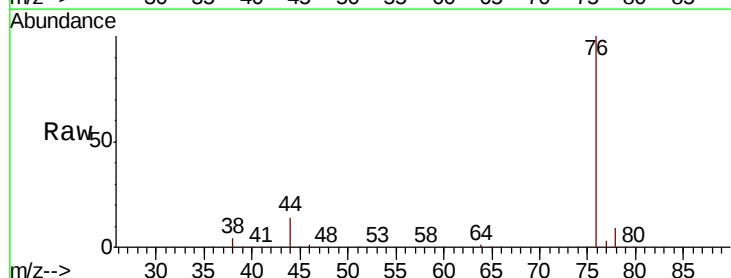
Acq: 02 Dec 2020 19:08

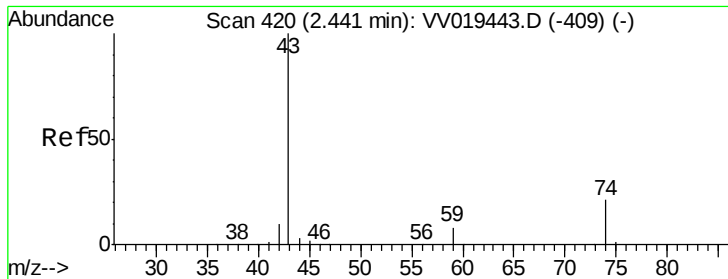
Tgt Ion: 76 Resp: 375813

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0

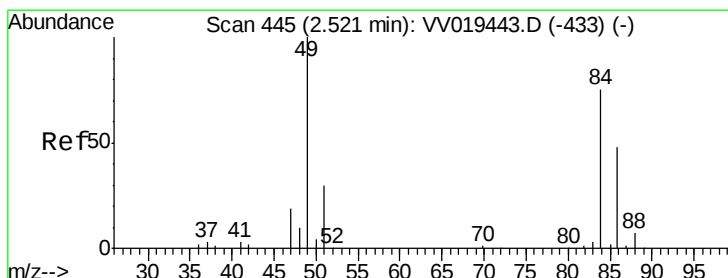
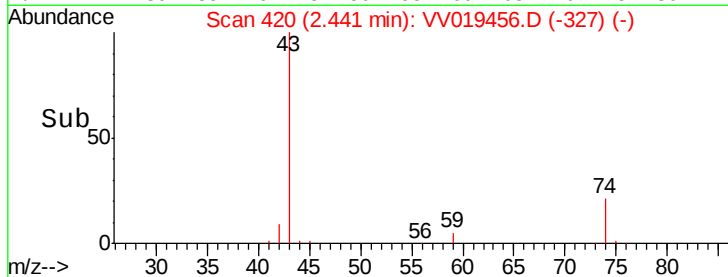
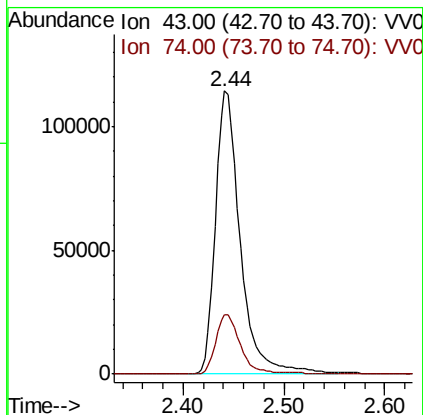
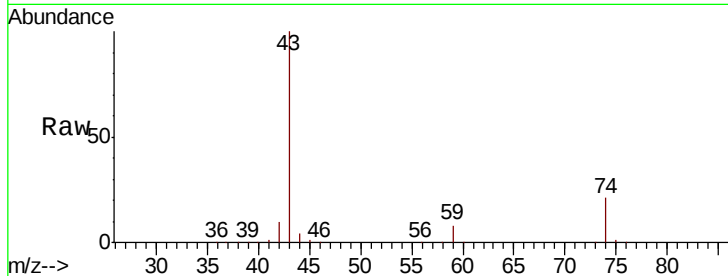




#15
Methyl Acetate
Concen: 56.902 ug/L
RT: 2.44 min Scan# 420
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

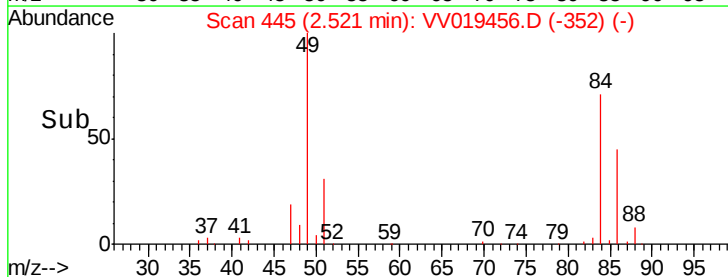
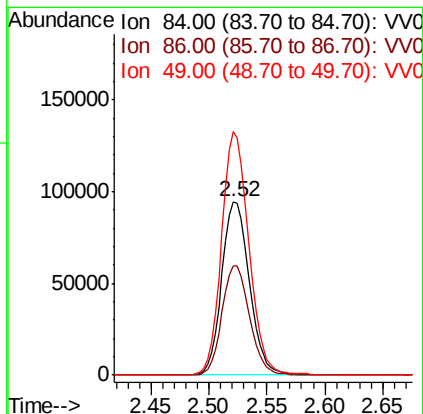
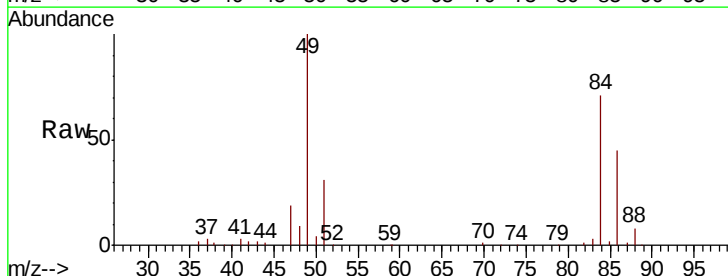
Instrument :
MSVOA_V
ClientSampled :
VSTD05074

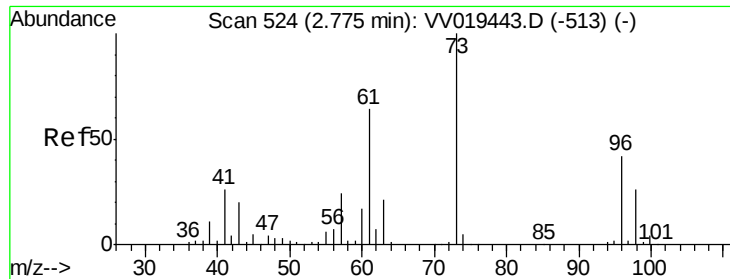
Tot Ion: 43 Resp: 195574
Ion Ratio Lower Upper
43 100
74 21.0 17.8 26.8



#16
Methylene chloride
Concen: 50.802 ug/L
RT: 2.52 min Scan# 445
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

Tgt Ion: 84 Resp: 156681
Ion Ratio Lower Upper
84 100
86 63.2 45.8 85.2
49 140.1 92.0 170.9

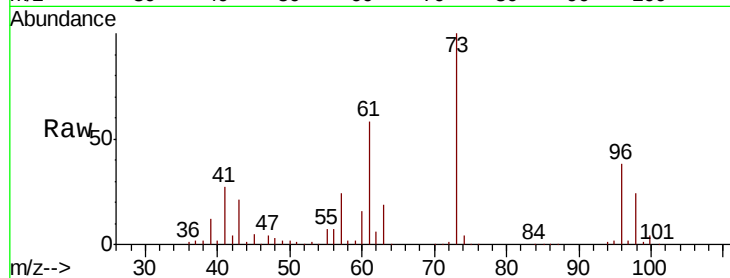




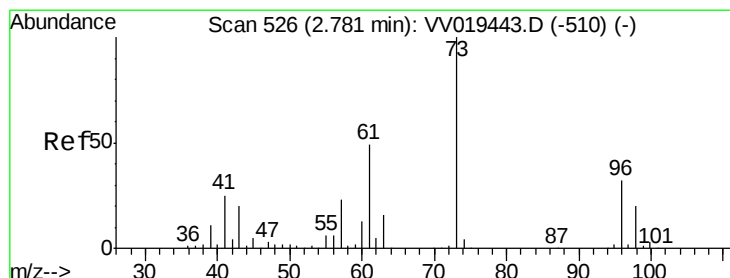
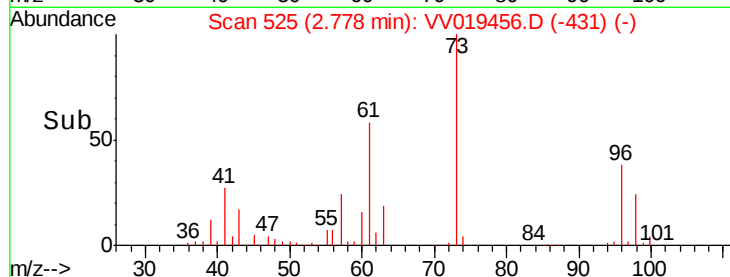
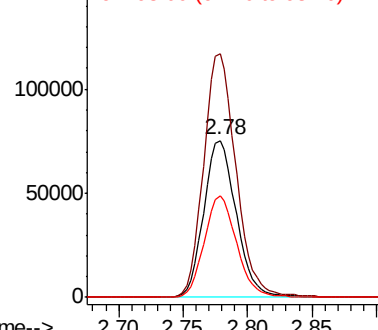
#17
trans-1,2-Dichloroethene
Concen: 50.151 ug/L
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

Tot Ion: 96 Resp: 132074
Ion Ratio Lower Upper
96 100
61 154.9 103.7 192.5
98 64.3 44.0 81.6

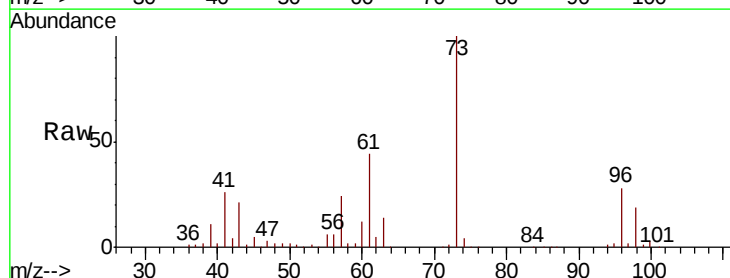


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

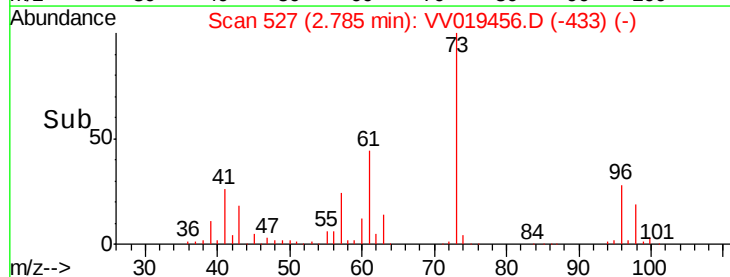
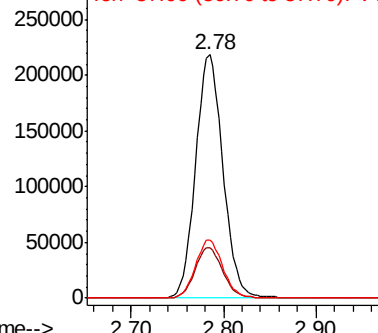


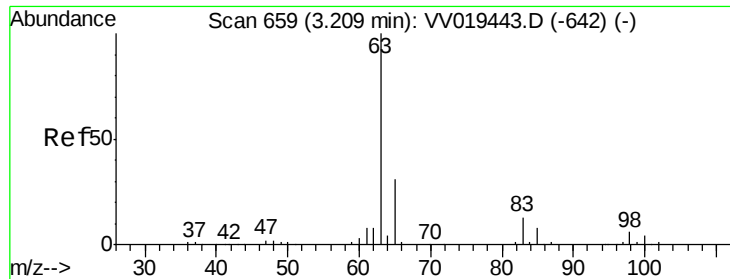
#18
Methyl tert-butyl Ether
Concen: 53.429 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

Tgt Ion: 73 Resp: 447427
Ion Ratio Lower Upper
73 100
43 20.6 15.6 23.4
57 23.9 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





#19

1,1-Dichloroethane

Concen: 53.449 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

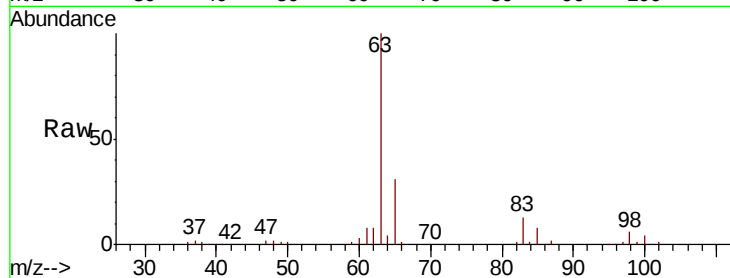
Tot Ion: 63 Resp: 288728

Ion Ratio Lower Upper

63 100

65 31.3 21.8 40.4

83 12.9 9.8 18.2

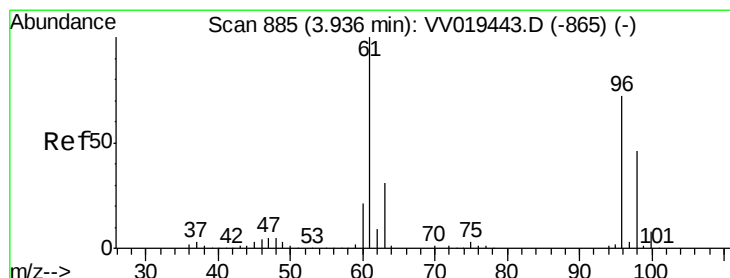
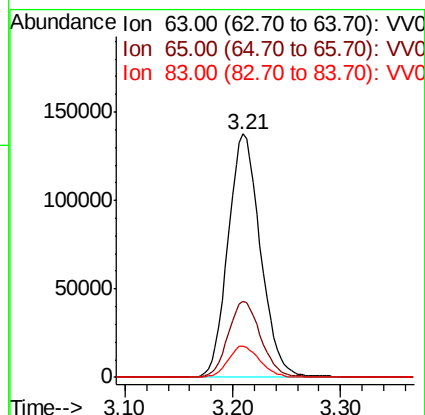
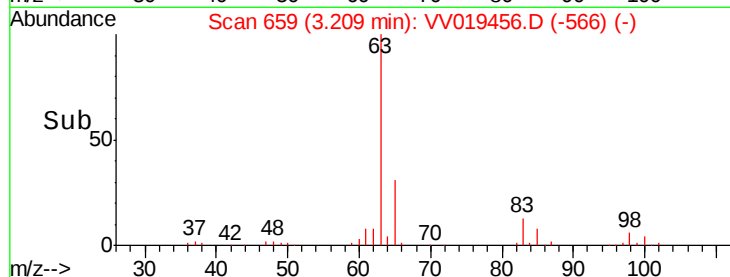


Abundance Ion 63.00 (62.70 to 63.70): VV019443.D (-642) (-)

Ion 65.00 (64.70 to 65.70): VV019443.D (-642) (-)

Ion 83.00 (82.70 to 83.70): VV019443.D (-642) (-)

Time-->



#20

cis-1,2-Dichloroethene

Concen: 50.830 ug/L

RT: 3.94 min Scan# 885

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

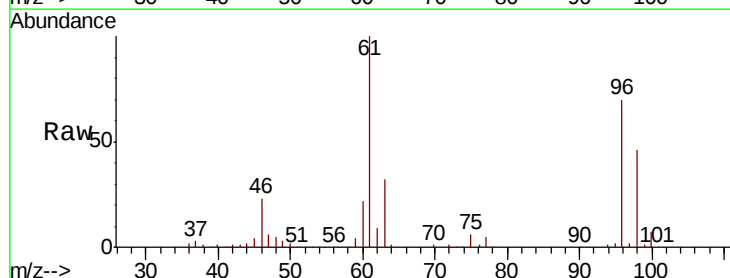
Tgt Ion: 96 Resp: 147106

Ion Ratio Lower Upper

96 100

61 143.3 95.5 177.3

68 0.0 0.0 0.0

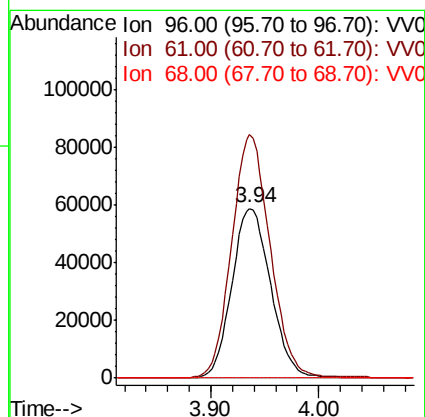
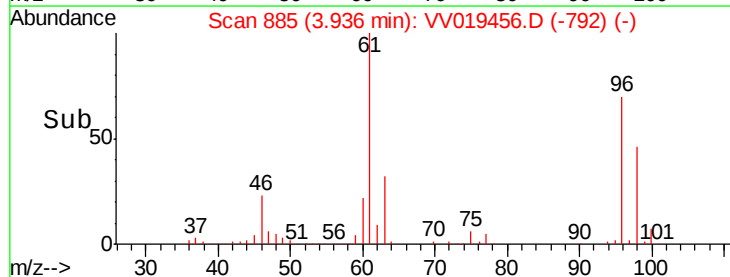


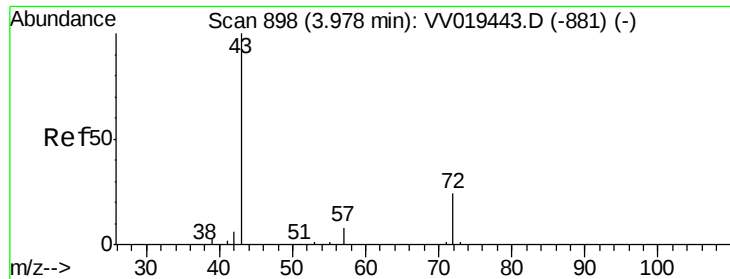
Abundance Ion 96.00 (95.70 to 96.70): VV019443.D (-865) (-)

Ion 61.00 (60.70 to 61.70): VV019443.D (-865) (-)

Ion 68.00 (67.70 to 68.70): VV019443.D (-865) (-)

Time-->





#22

2-Butanone

Concen: 113.619 ug/L

RT: 3.98 min Scan# 899

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampled :

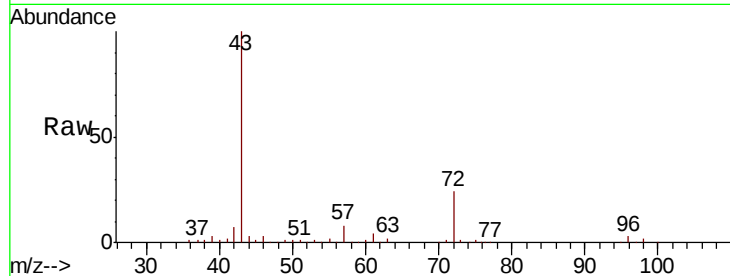
VSTD05074

Tot Ion: 43 Resp: 255787

Ion Ratio Lower Upper

43 100

72 24.9 12.7 38.1



Abundance Ion 43.00 (42.70 to 43.70): VV019443.D (-881) (-)

Ion 72.00 (71.70 to 72.70): VV019443.D (-881) (-)

3.98

100000

80000

60000

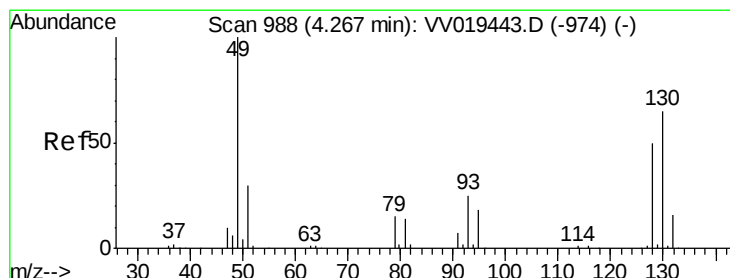
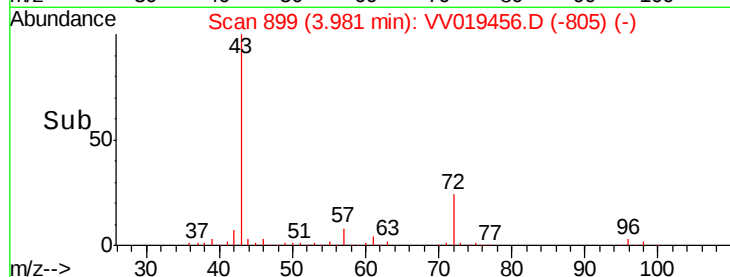
40000

20000

0

3.90 4.00 4.10

Time-->



#23

Bromochloromethane

Concen: 49.628 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.01 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Tgt Ion: 128 Resp: 76065

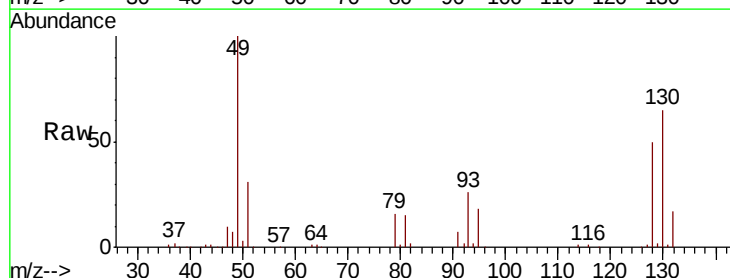
Ion Ratio Lower Upper

128 100

49 199.6 126.1 234.1

130 129.5 89.4 166.0

51 62.3 46.5 69.7



Abundance Ion 128.00 (127.70 to 128.70): VV019443.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VV019443.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VV019443.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VV019443.D (-974) (-)

4.27

80000

60000

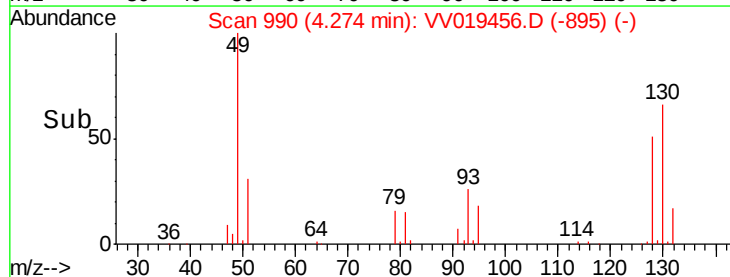
40000

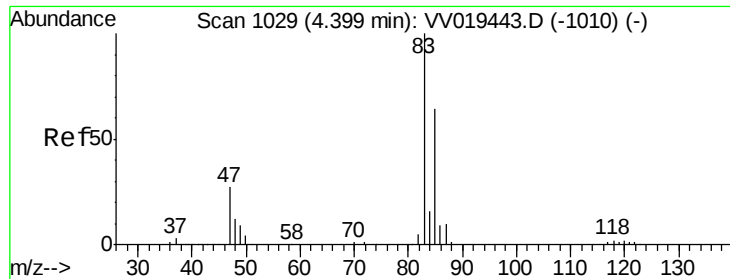
20000

0

4.20 4.25 4.30 4.35

Time-->

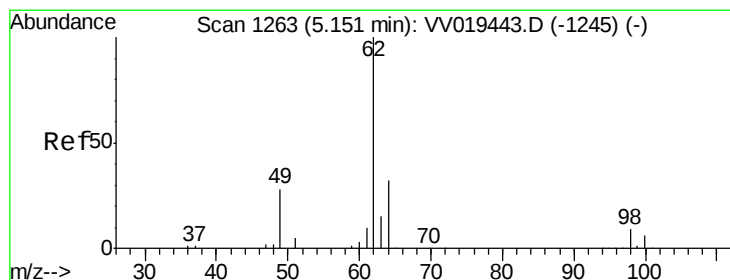
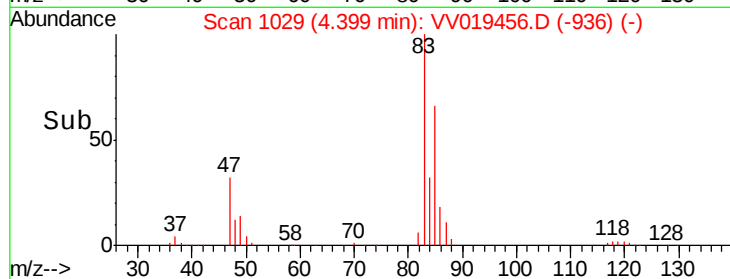
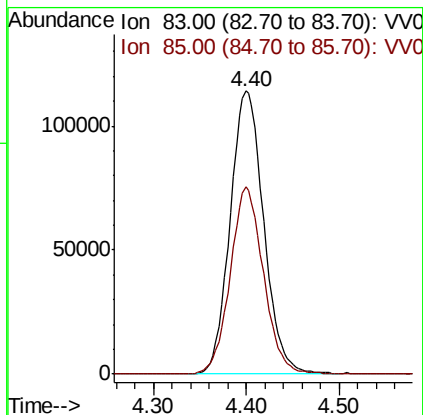
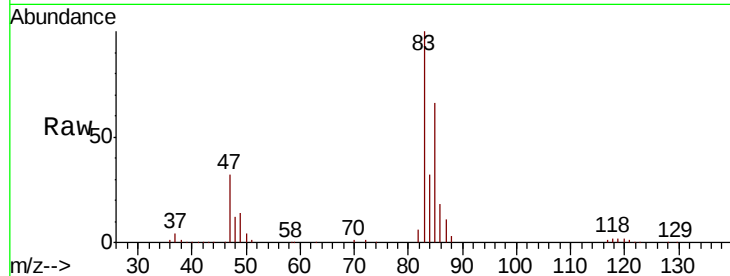




#25
Chloroform
Concen: 52.509 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

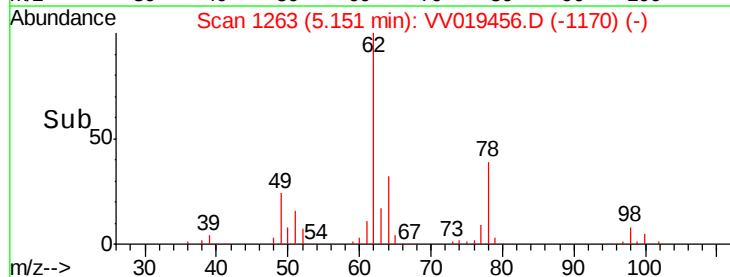
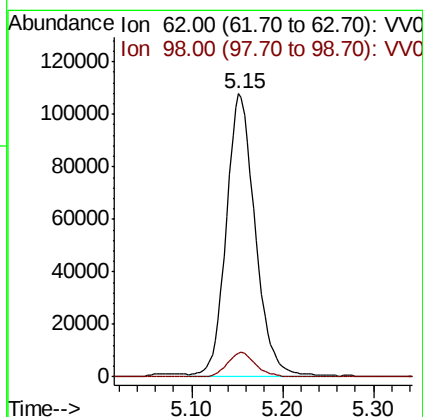
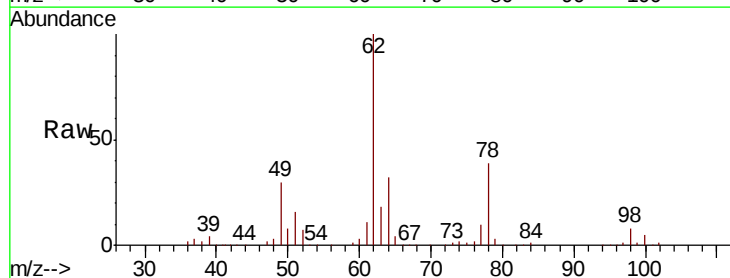
Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

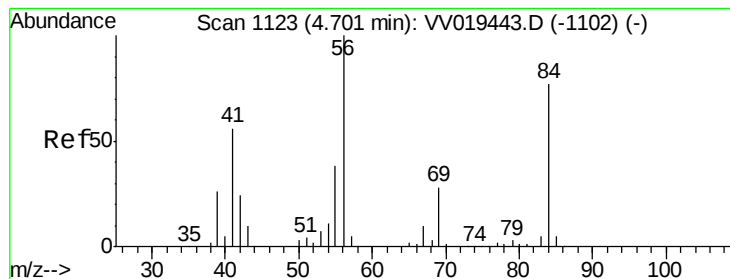
Tot Ion: 83 Resp: 286733
Ion Ratio Lower Upper
83 100
85 66.1 45.1 83.9



#27
1,2-Dichloroethane
Concen: 55.365 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

Tgt Ion: 62 Resp: 237217
Ion Ratio Lower Upper
62 100
98 8.5 7.6 11.4





#29

Cvclohexane

Concen: 52.518 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampled :

VSTD05074

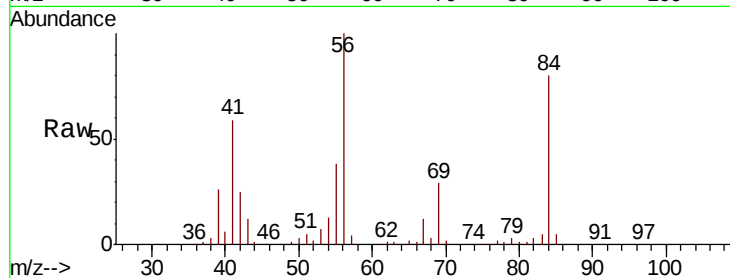
Tot Ion: 56 Resp: 200384

Ion Ratio Lower Upper

56 100

69 29.2 23.8 35.8

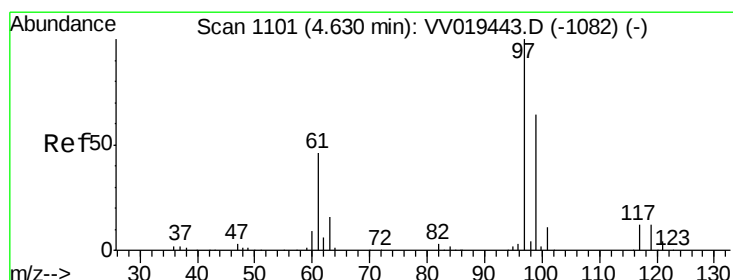
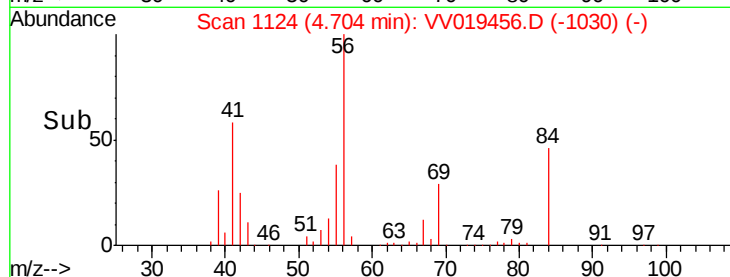
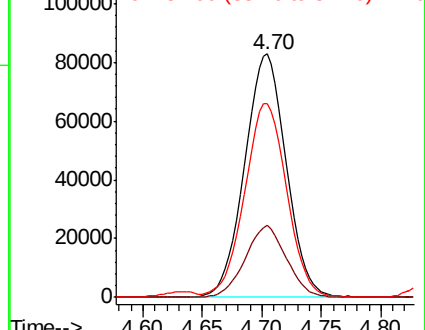
84 80.3 67.0 100.6



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 53.700 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

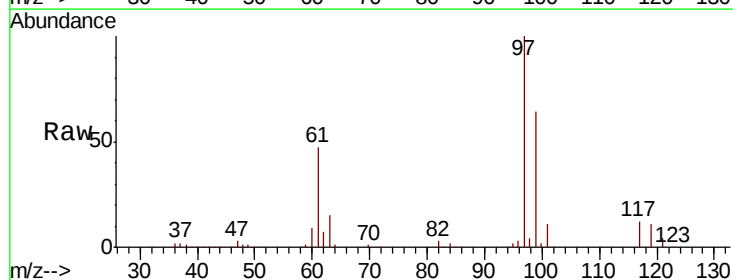
Tgt Ion: 97 Resp: 236432

Ion Ratio Lower Upper

97 100

99 64.6 51.0 76.6

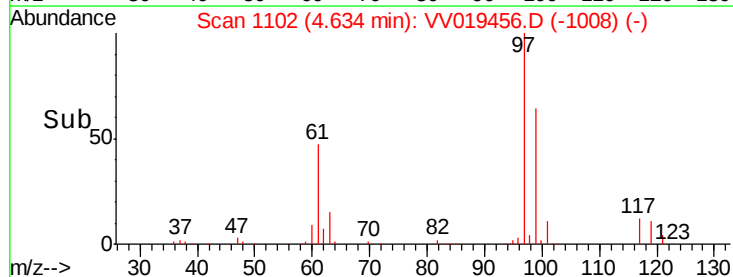
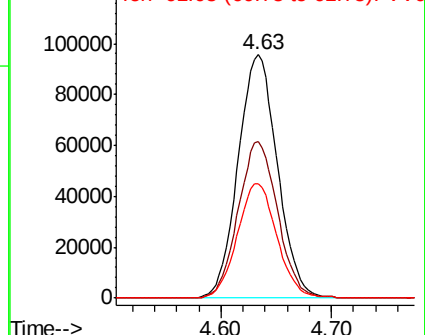
61 47.6 36.9 55.3

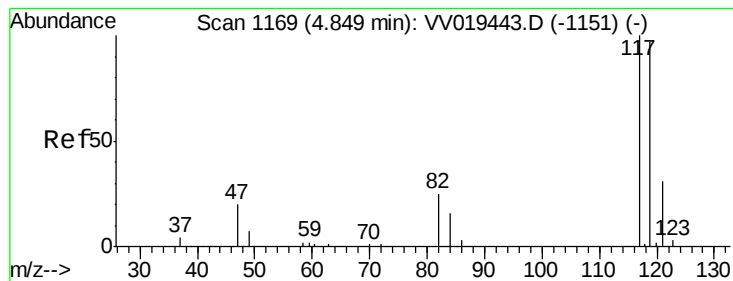


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 52.237 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

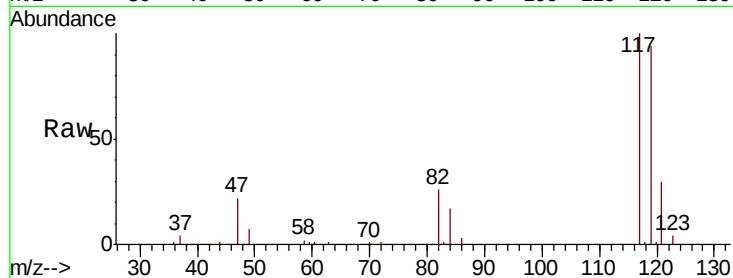
VSTD05074

Tot Ion:117 Resp: 197442

Ion Ratio Lower Upper

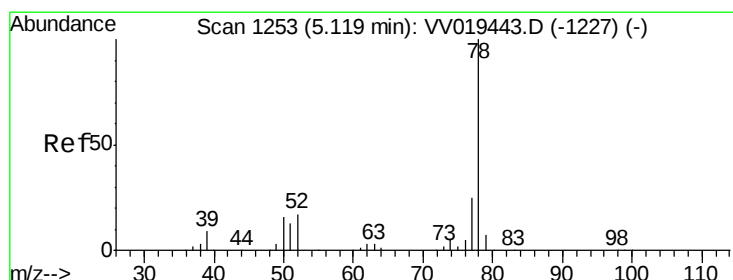
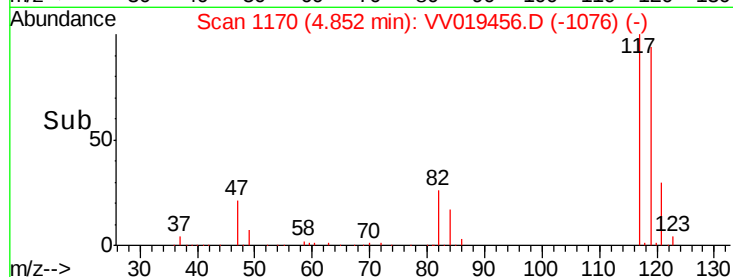
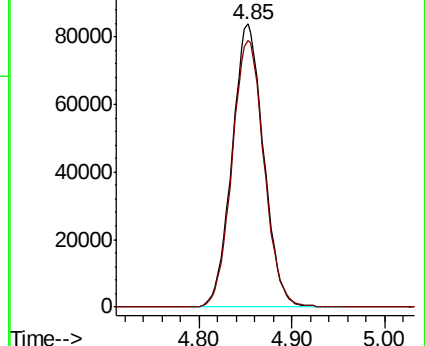
117 100

119 95.6 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 54.391 ug/L

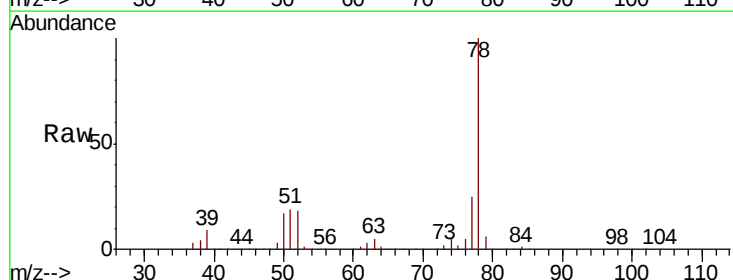
RT: 5.12 min Scan# 1254

Delta R.T. 0.00 min

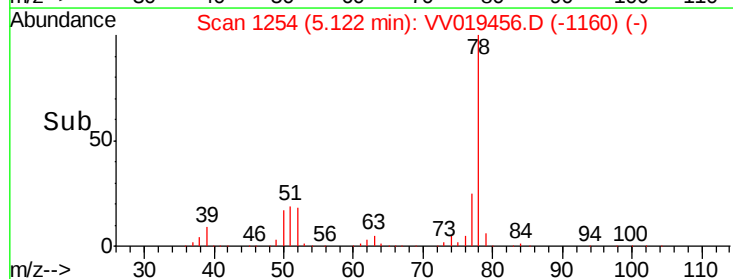
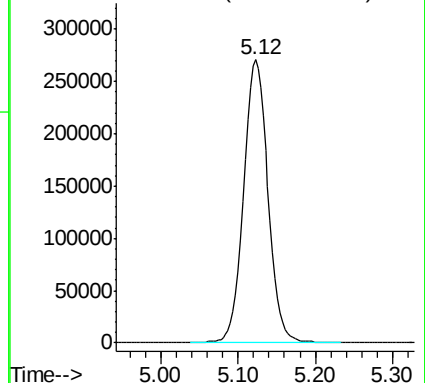
Lab File: VV019456.D

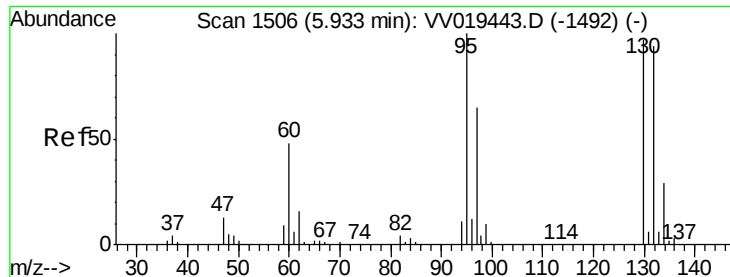
Acq: 02 Dec 2020 19:08

Tgt Ion: 78 Resp: 593296



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 51.174 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

Tot Ion: 95 Resp: 155668

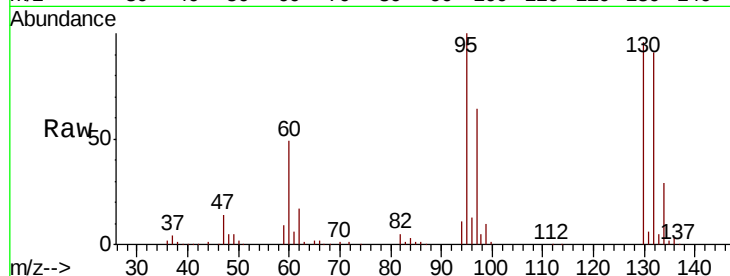
Ion Ratio Lower Upper

95 100

97 63.7 43.8 81.3

132 90.8 65.6 121.8

130 95.8 69.2 128.6

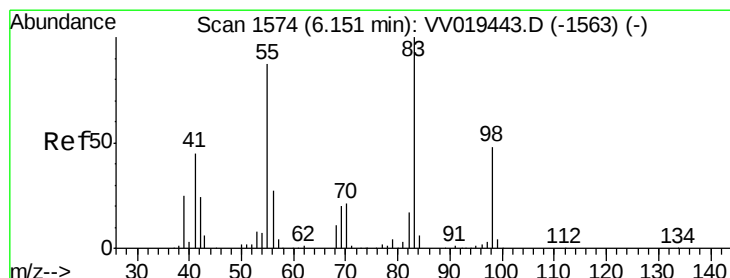
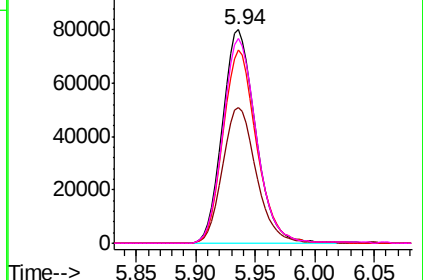
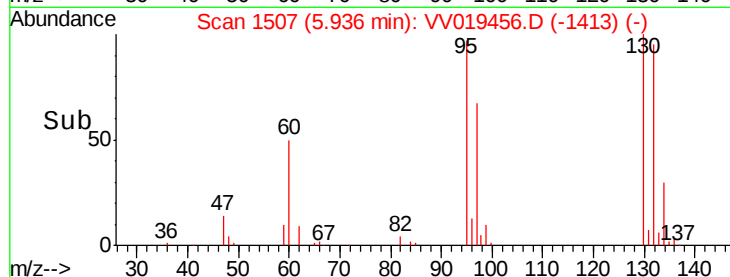


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#35

Methylcyclohexane

Concen: 51.736 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

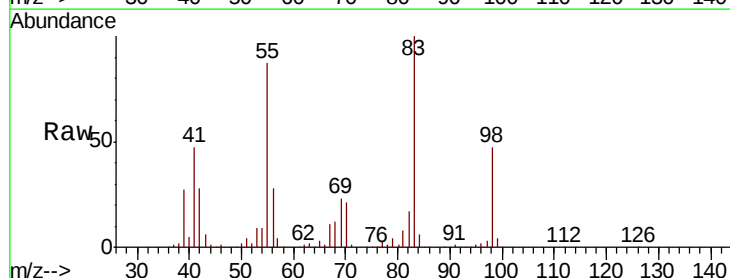
Tgt Ion: 83 Resp: 185190

Ion Ratio Lower Upper

83 100

55 85.7 67.4 101.2

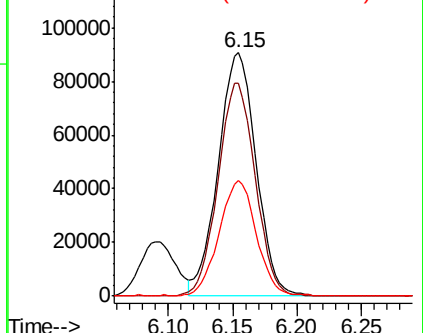
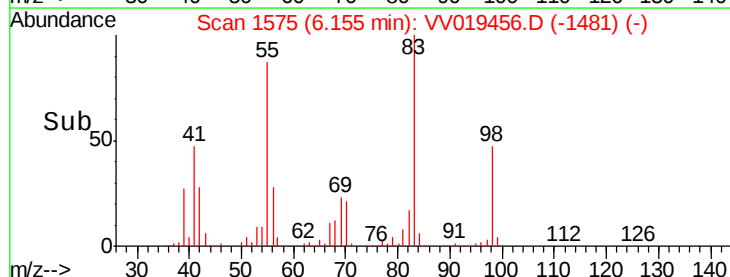
98 46.9 38.3 57.5

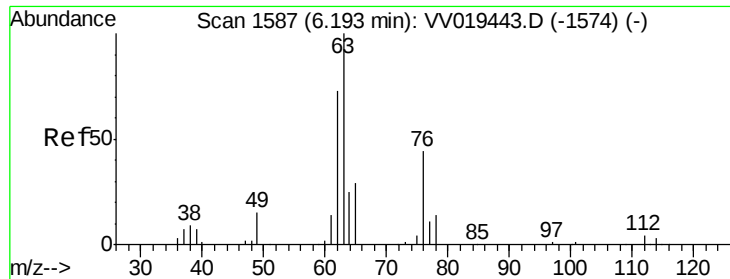


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 56.644 ug/L

RT: 6.20 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

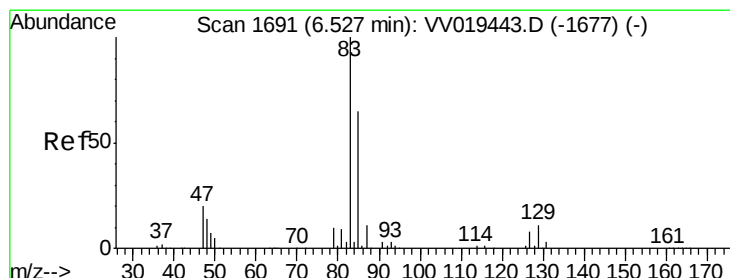
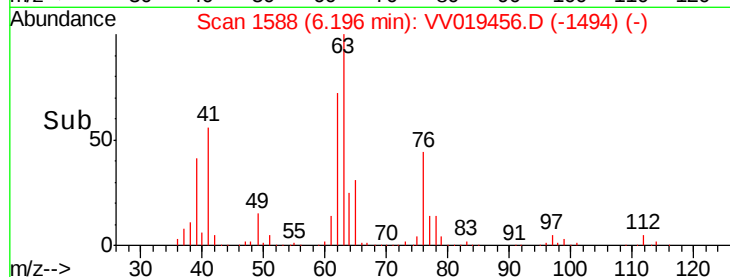
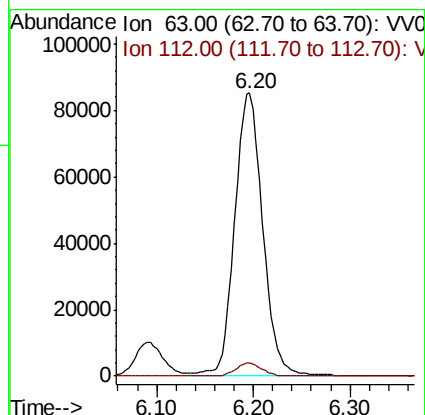
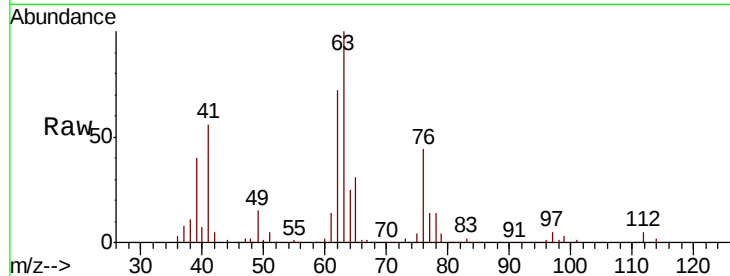
VSTD05074

Tot Ion: 63 Resp: 170423

Ion Ratio Lower Upper

63 100

112 4.4 3.8 5.6



#38

Bromodichloromethane

Concen: 54.211 ug/L

RT: 6.53 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

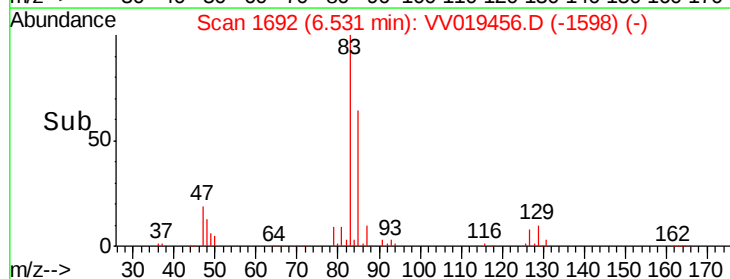
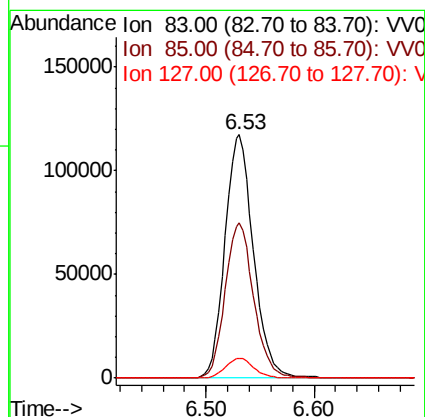
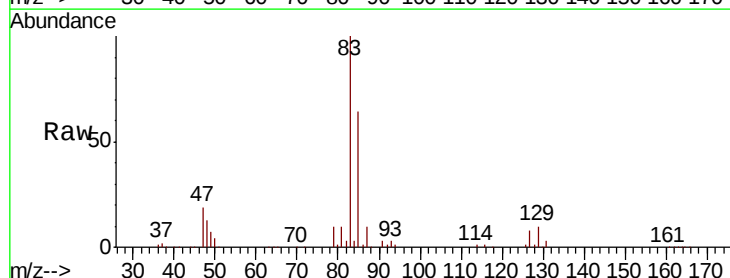
Tgt Ion: 83 Resp: 216244

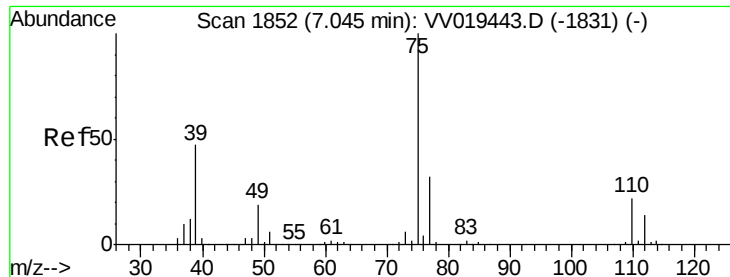
Ion Ratio Lower Upper

83 100

85 63.6 45.3 84.1

127 8.2 6.6 9.8

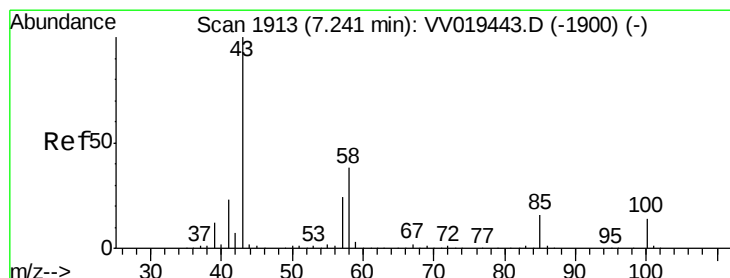
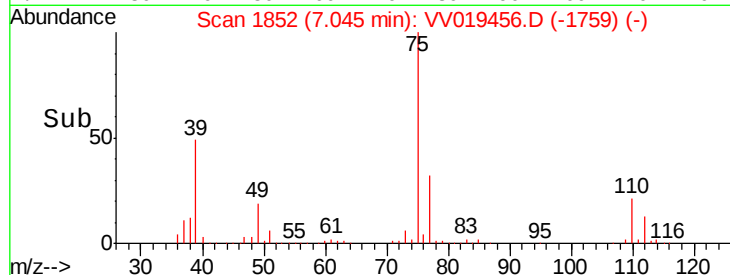
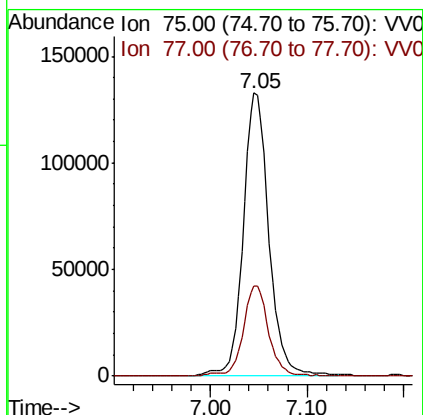
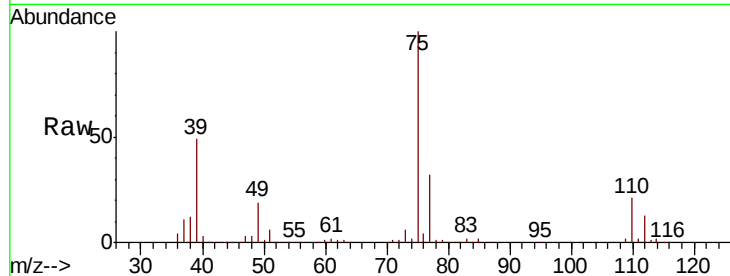




#39
 cis-1,3-Dichloropropene
 Concen: 54.975 ug/L
 RT: 7.05 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VV019456.D
 Acq: 02 Dec 2020 19:08

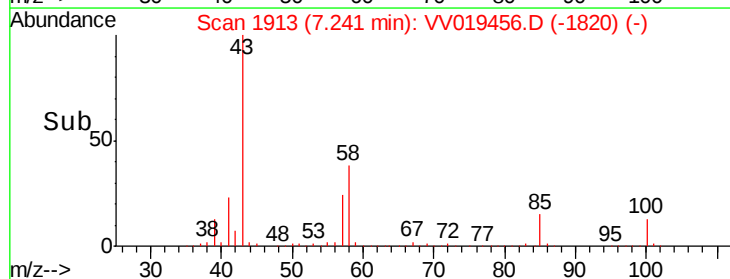
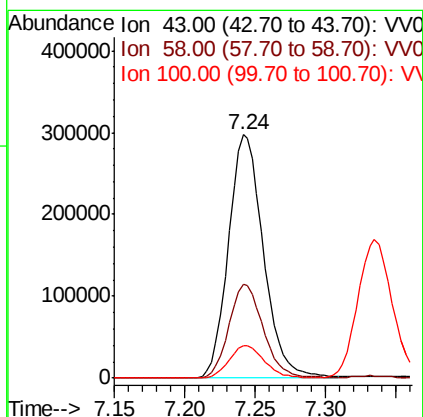
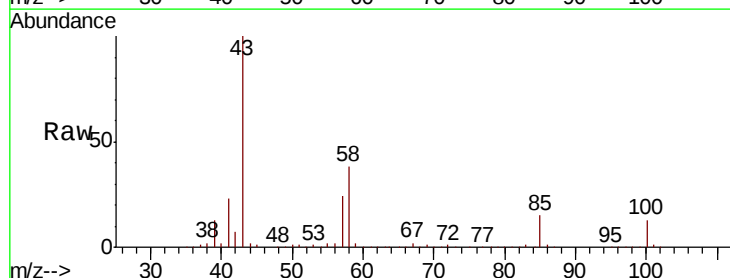
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD05074

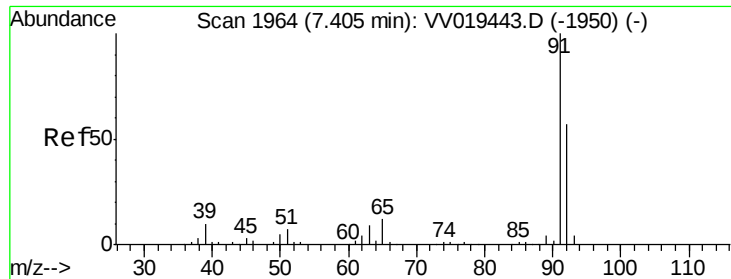
Tot Ion: 75 Resp: 244323
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 121.423 ug/L
 RT: 7.24 min Scan# 1913
 Delta R.T. 0.00 min
 Lab File: VV019456.D
 Acq: 02 Dec 2020 19:08

Tgt Ion: 43 Resp: 515137
 Ion Ratio Lower Upper
 43 100
 58 38.2 31.0 46.4
 100 13.5 11.7 17.5





#42

Toluene

Concen: 54.178 ug/L

RT: 7.41 min Scan# 1964

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

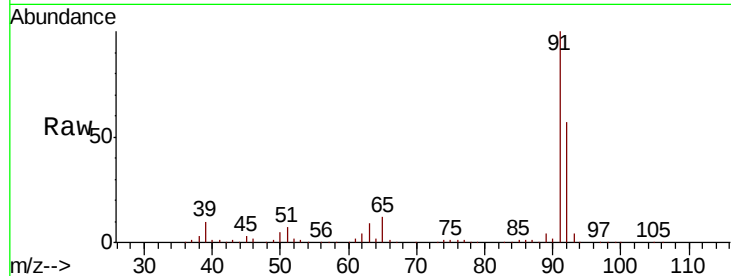
VSTD05074

Tot Ion: 91 Resp: 613054

Ion Ratio Lower Upper

91 100

92 57.2 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VV019443.D (-1950) (-)

Ion 92.00 (91.70 to 92.70): VV019443.D (-1950) (-)

7.41

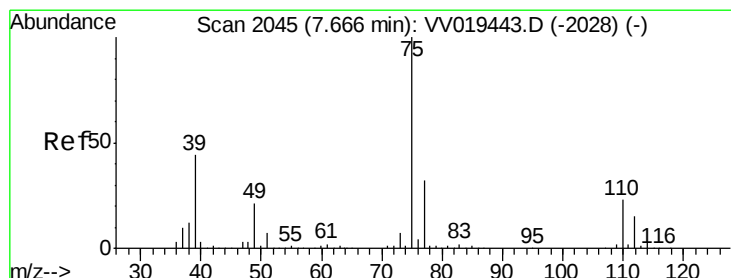
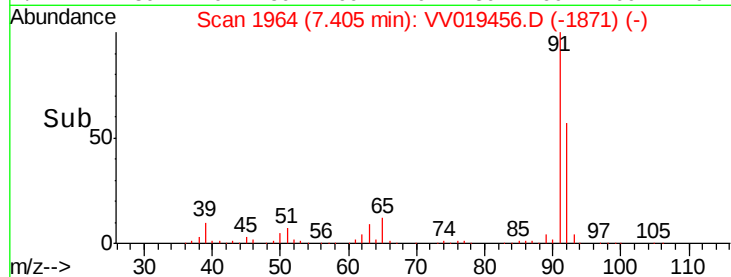
300000

200000

100000

0

Time--> 7.30 7.40 7.50



#44

trans-1,3-Dichloropropene

Concen: 55.268 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV019456.D

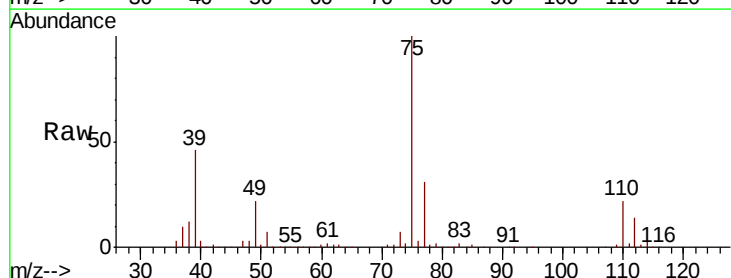
Acq: 02 Dec 2020 19:08

Tgt Ion: 75 Resp: 244658

Ion Ratio Lower Upper

75 100

77 31.4 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VV019443.D (-2028) (-)

Ion 77.00 (76.70 to 77.70): VV019443.D (-2028) (-)

7.67

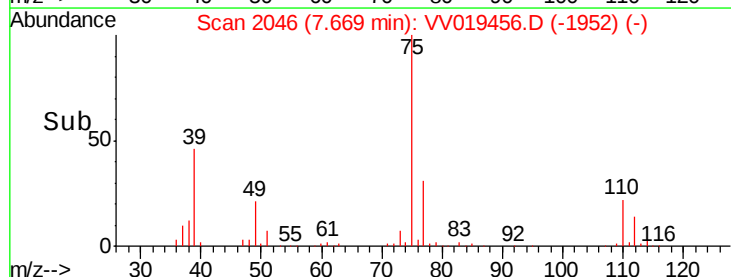
150000

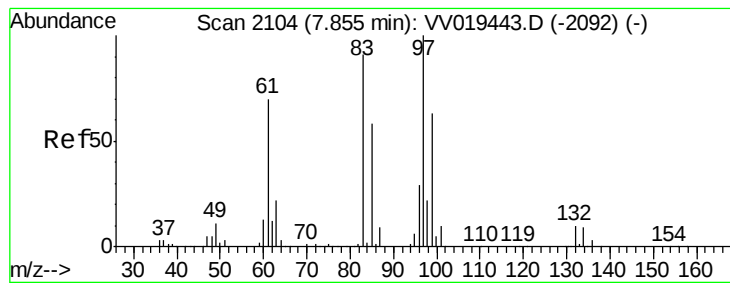
100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75





#45

1,1,2-Trichloroethane

Concen: 54.345 ug/L

RT: 7.86 min Scan# 2104

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

Tot Ion: 97 Resp: 153110

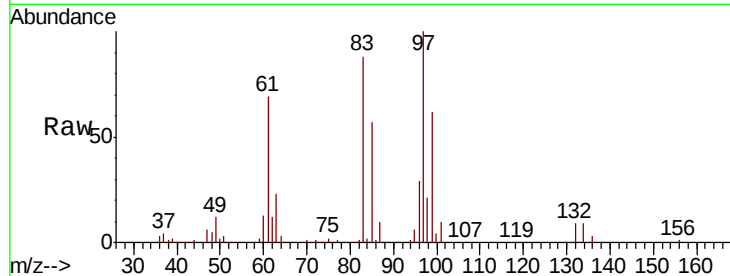
Ion Ratio Lower Upper

97 100

99 62.0 43.7 81.1

83 88.3 62.0 115.2

85 56.7 40.0 74.4

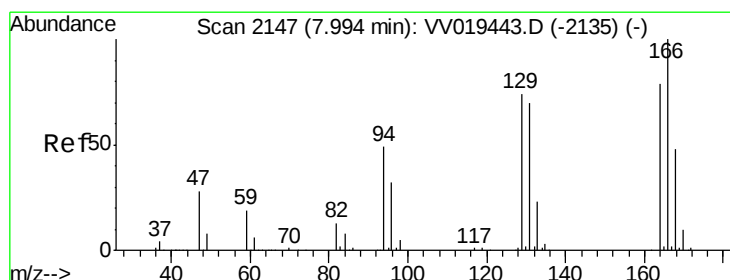
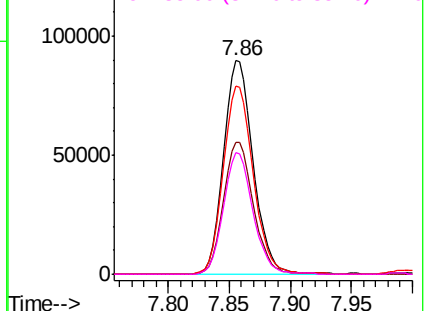
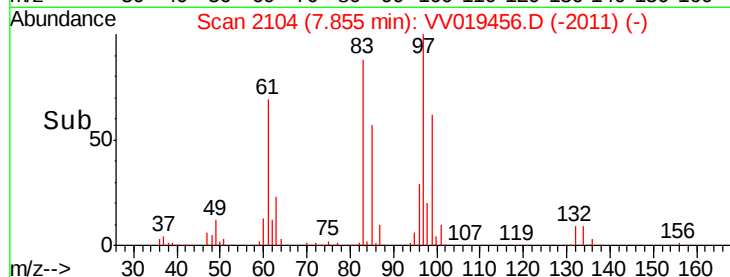


Abundance Ion 97.00 (96.70 to 97.70): VV019456.D (-2011) (-)

Ion 99.00 (98.70 to 99.70): VV019456.D (-2011) (-)

Ion 83.00 (82.70 to 83.70): VV019456.D (-2011) (-)

Ion 85.00 (84.70 to 85.70): VV019456.D (-2011) (-)



#46

Tetrachloroethene

Concen: 48.544 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Tgt Ion: 164 Resp: 102556

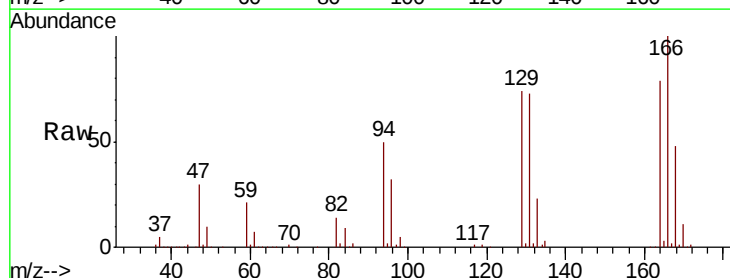
Ion Ratio Lower Upper

164 100

129 93.0 62.9 116.7

131 91.9 61.1 113.5

166 125.8 86.5 160.6

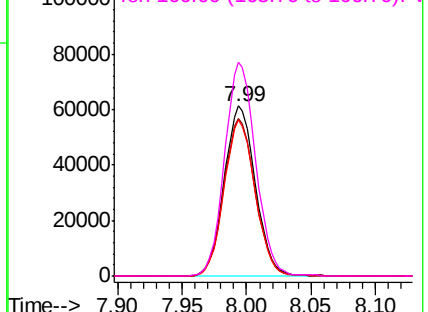
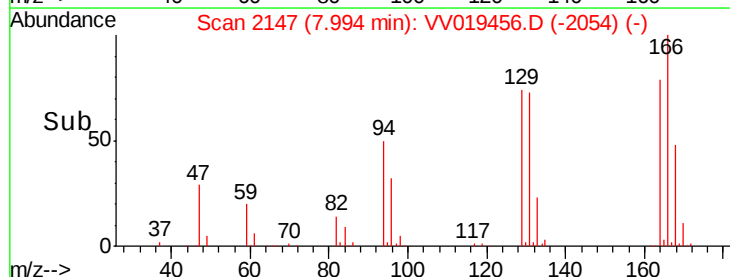


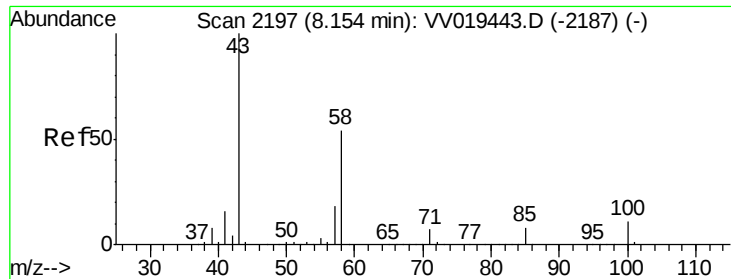
Abundance Ion 164.00 (163.70 to 164.70): VV019456.D (-2054) (-)

Ion 129.00 (128.70 to 129.70): VV019456.D (-2054) (-)

Ion 131.00 (130.70 to 131.70): VV019456.D (-2054) (-)

Ion 166.00 (165.70 to 166.70): VV019456.D (-2054) (-)

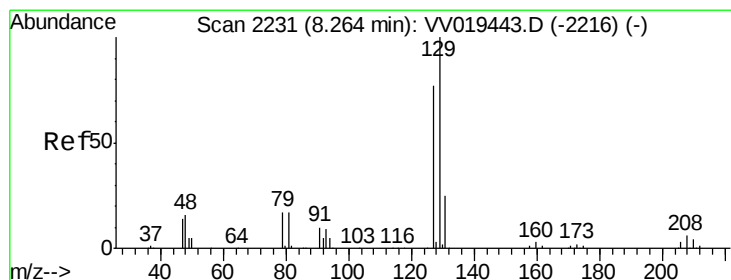
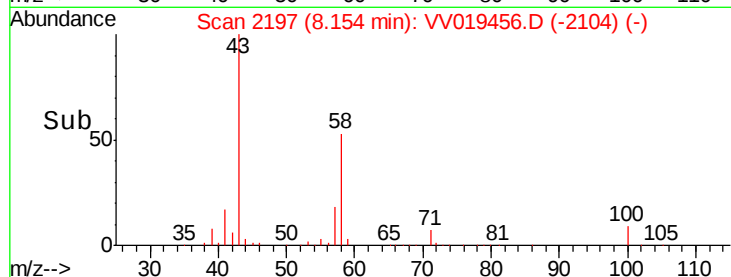
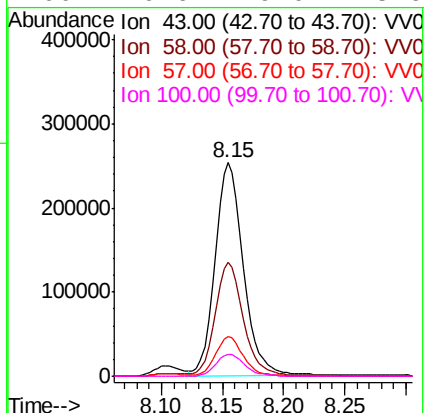
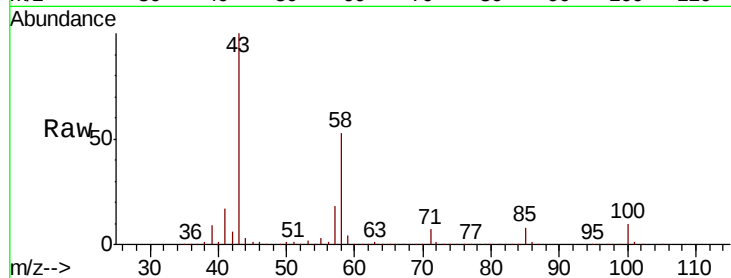




#48
2-Hexanone
Concen: 122.899 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

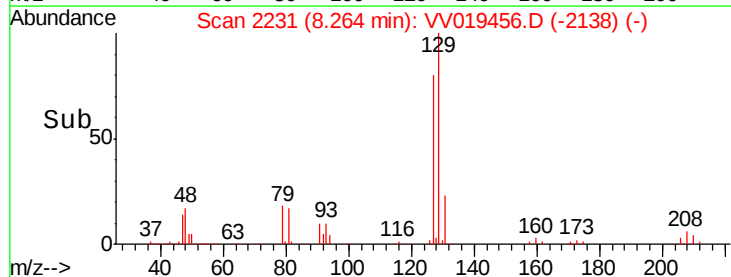
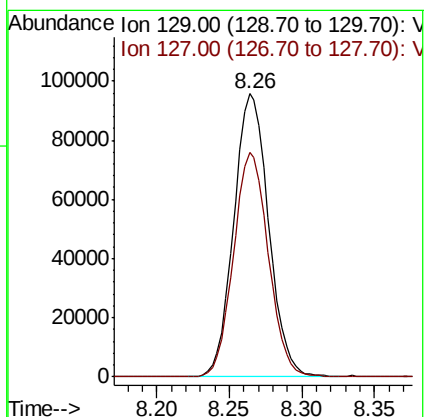
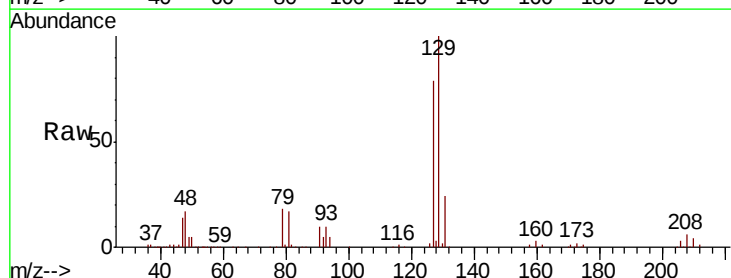
Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

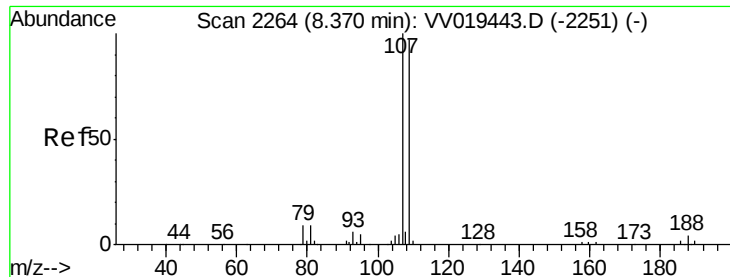
Tot Ion:	43	Resp:	412959
Ion	Ratio	Lower	Upper
43	100		
58	52.4	43.8	65.6
57	18.3	15.4	23.2
100	10.6	9.0	13.6



#49
Dibromochloromethane
Concen: 51.418 ug/L
RT: 8.26 min Scan# 2231
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

Tgt Ion:	129	Resp:	160102
Ion	Ratio	Lower	Upper
129	100		
127	79.2	53.5	99.5

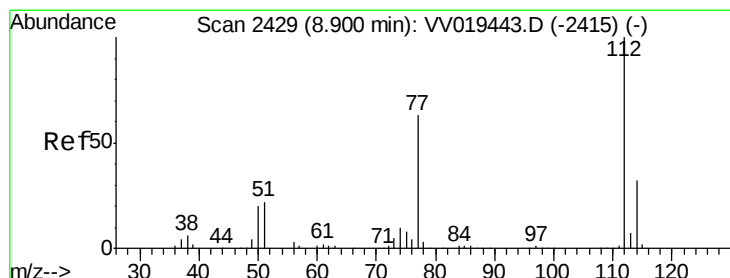
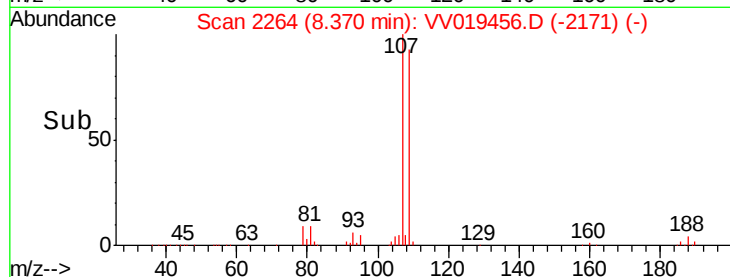
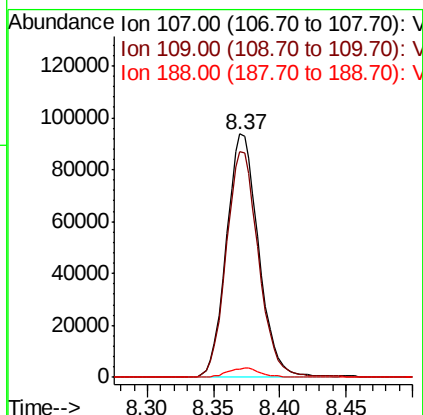
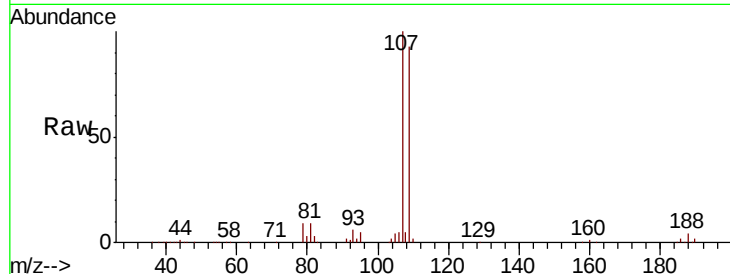




#50
 1,2-Dibromoethane
 Concen: 52.864 ug/L
 RT: 8.37 min Scan# 2264
 Delta R.T. 0.00 min
 Lab File: VV019456.D
 Acq: 02 Dec 2020 19:08

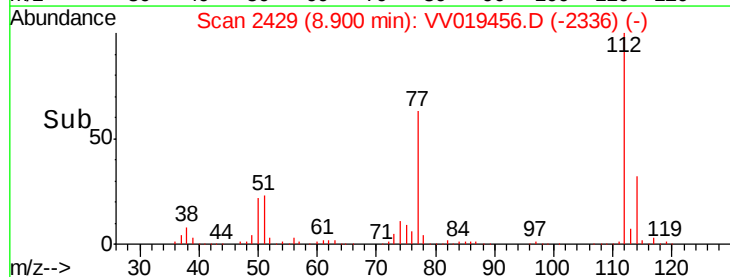
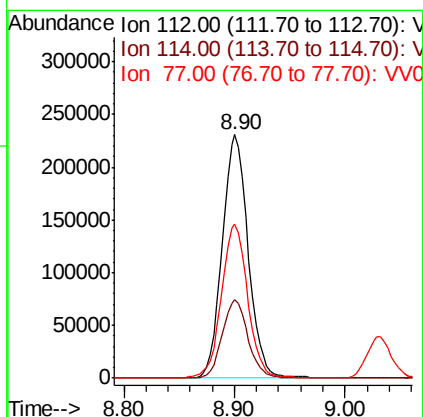
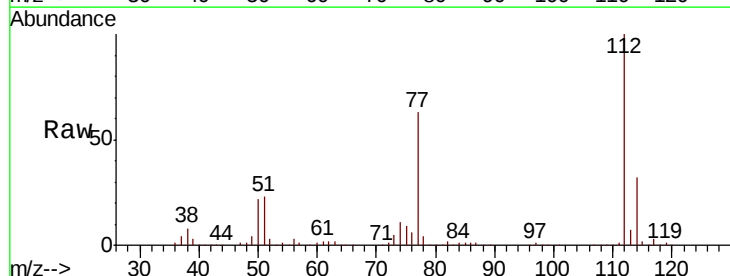
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05074

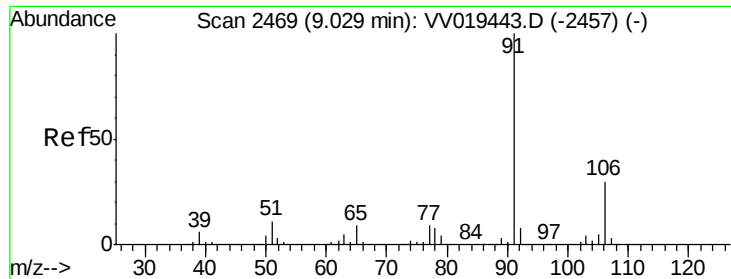
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.9	66.1	122.8
188	3.5	3.0	4.4



#51
 Chlorobenzene
 Concen: 50.381 ug/L
 RT: 8.90 min Scan# 2429
 Delta R.T. 0.00 min
 Lab File: VV019456.D
 Acq: 02 Dec 2020 19:08

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.7	42.1
77	63.3	50.3	75.5

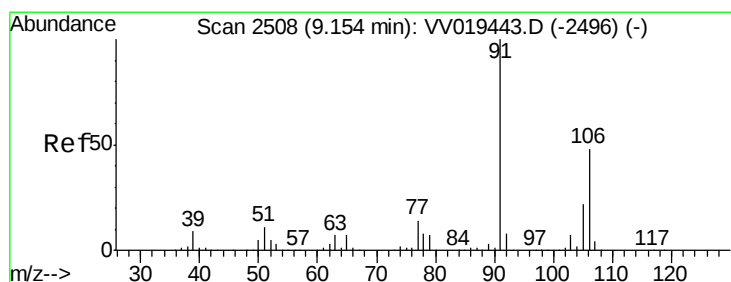
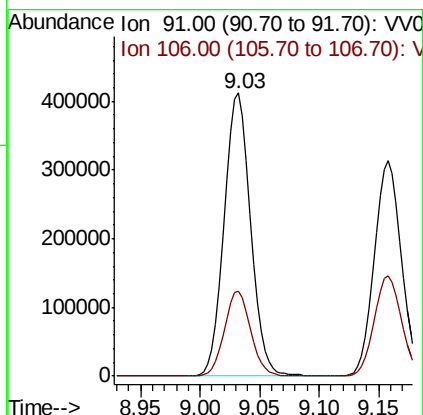
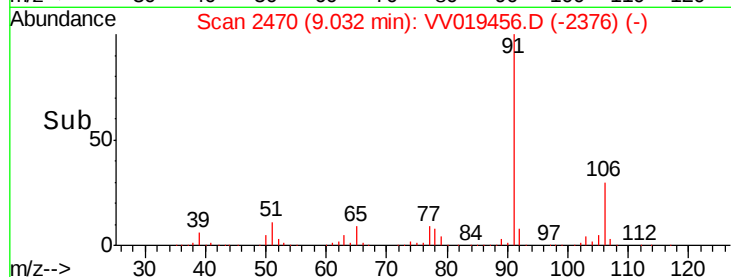
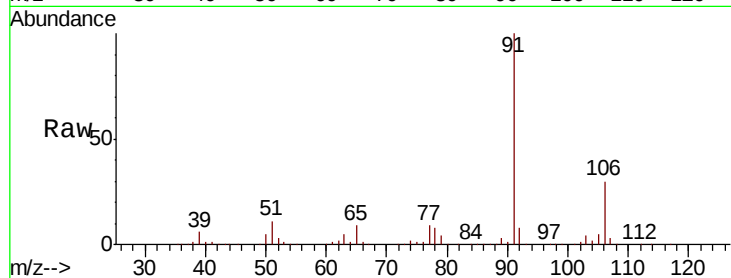




#52
Ethylbenzene
Concen: 52.373 ug/L
RT: 9.03 min Scan# 2470
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

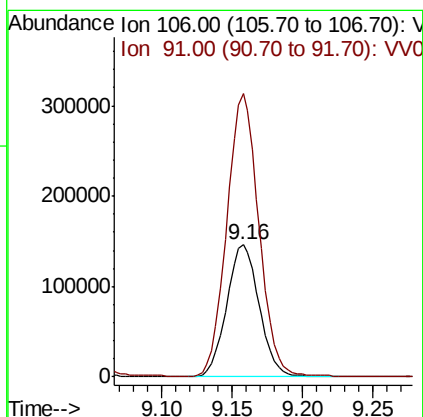
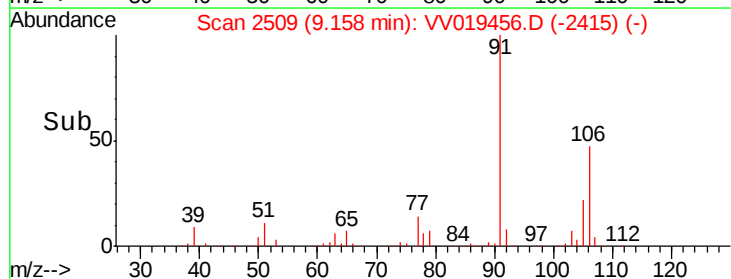
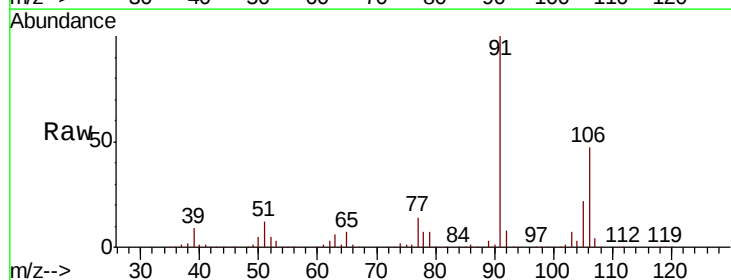
Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

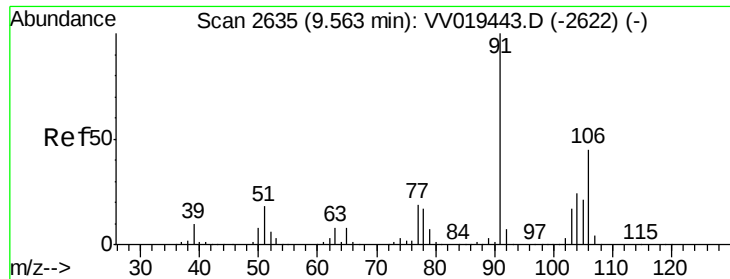
Tot Ion: 91 Resp: 635986
Ion Ratio Lower Upper
91 100
106 30.1 21.4 39.8



#53
m,p-Xylene
Concen: 52.086 ug/L
RT: 9.16 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VV019456.D
Acq: 02 Dec 2020 19:08

Tgt Ion: 106 Resp: 234024
Ion Ratio Lower Upper
106 100
91 214.0 148.7 276.3





#54

o-xylene

Concen: 52.386 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

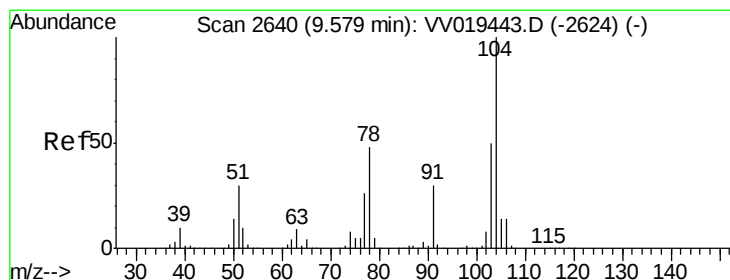
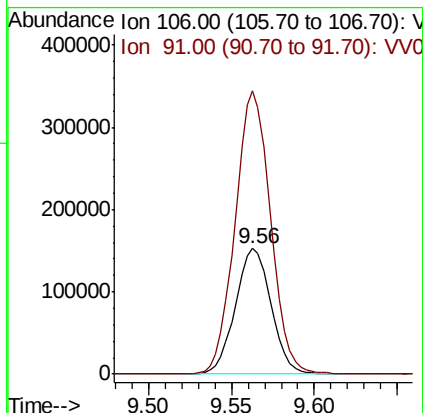
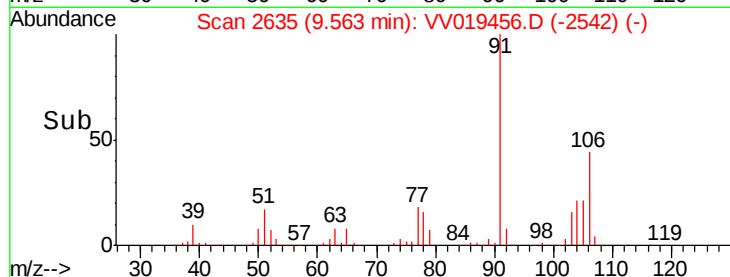
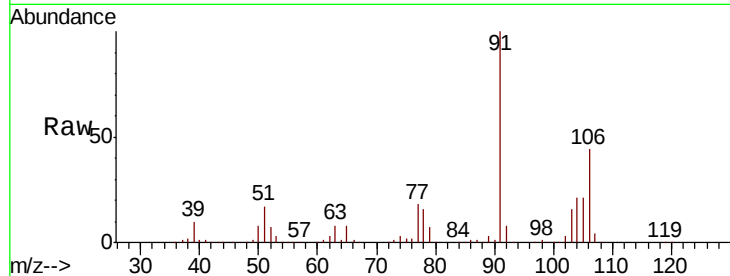
VSTD05074

Tot Ion:106 Resp: 229178

Ion Ratio Lower Upper

106 100

91 225.1 155.1 288.1



#55

Styrene

Concen: 54.555 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV019456.D

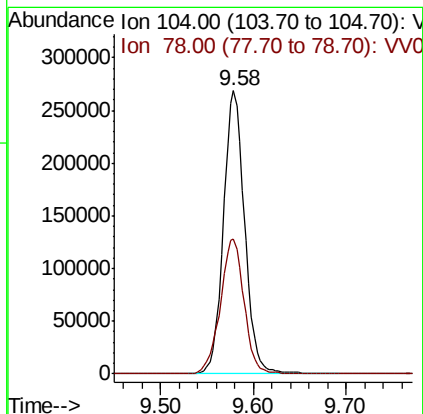
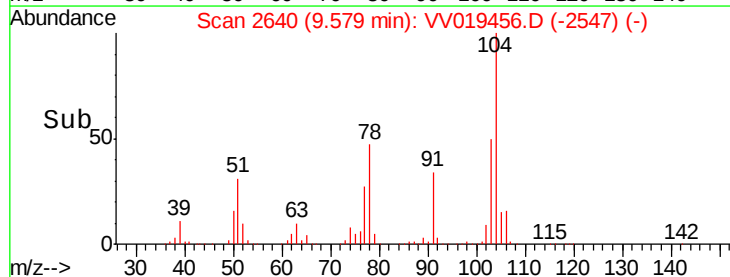
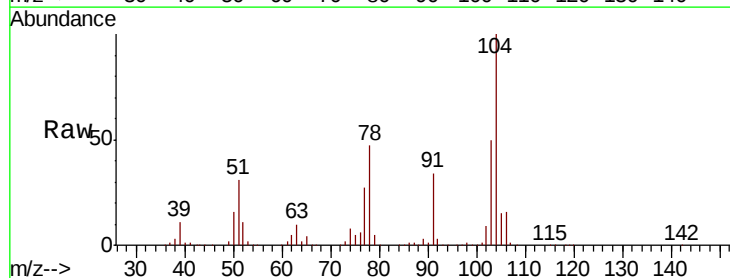
Acq: 02 Dec 2020 19:08

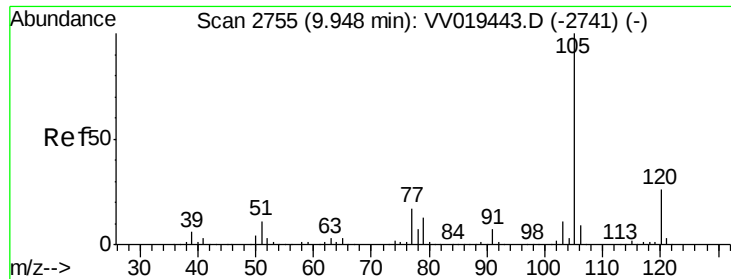
Tgt Ion:104 Resp: 427243

Ion Ratio Lower Upper

104 100

78 47.4 33.0 61.4





#56

Isopropylbenzene

Concen: 51.579 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

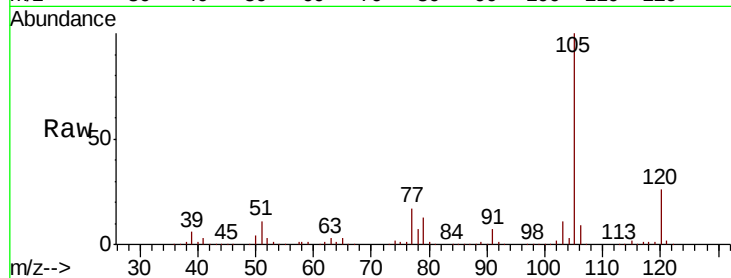
Tot Ion:105 Resp: 591182

Ion Ratio Lower Upper

105 100

120 25.8 20.8 31.2

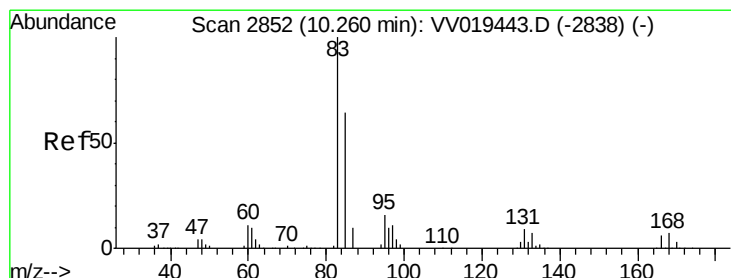
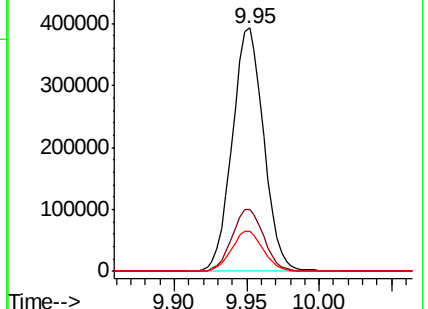
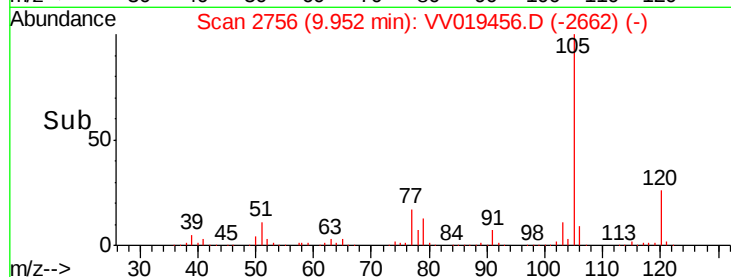
77 16.8 13.1 19.7



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: 54.483 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

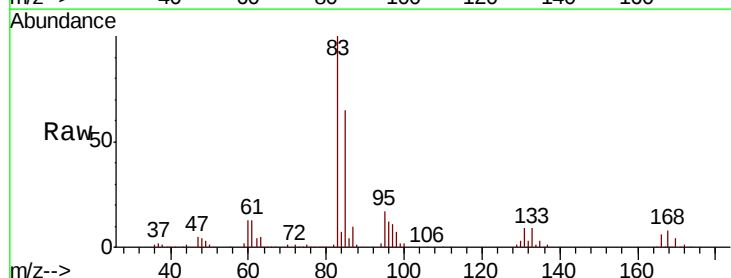
Tgt Ion: 83 Resp: 234622

Ion Ratio Lower Upper

83 100

85 64.8 44.8 83.2

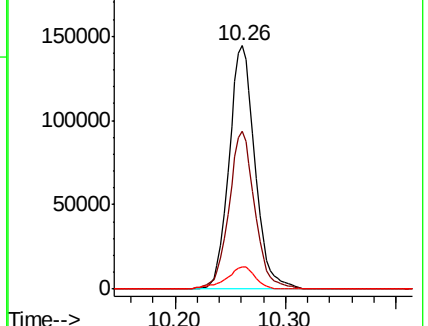
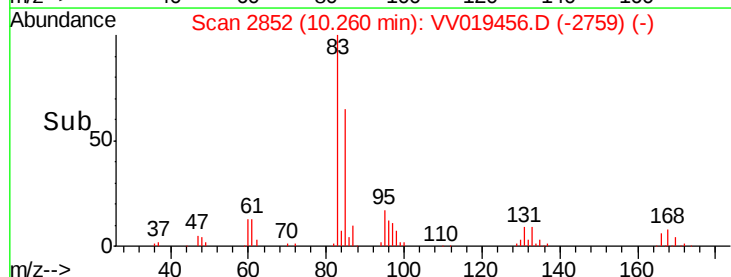
131 9.0 7.2 10.8

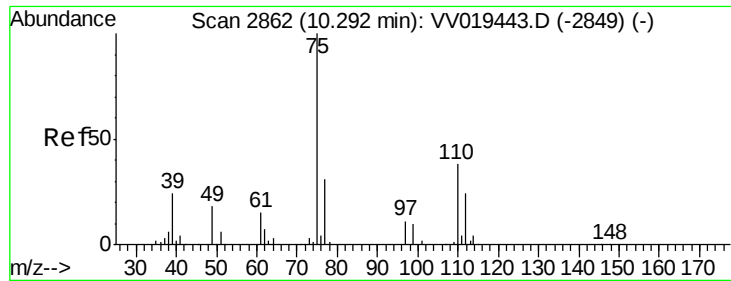


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 53.945 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

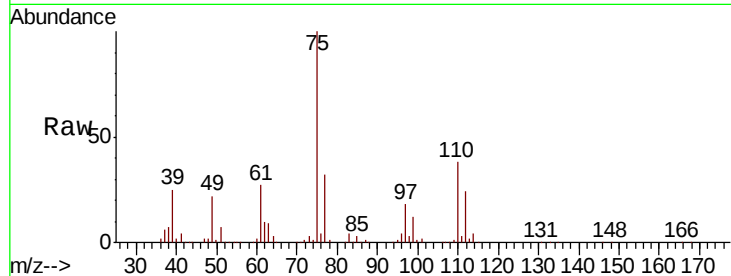
VSTD05074

Tot Ion: 75 Resp: 213198

Ion Ratio Lower Upper

75 100

77 32.2 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VV019443.D (-2849) (-)

Ion 77.00 (76.70 to 77.70): VV019443.D (-2849) (-)

10.29

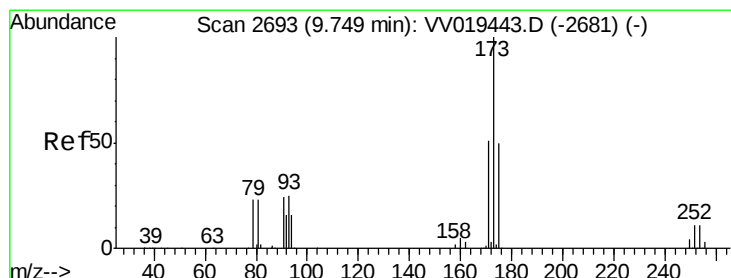
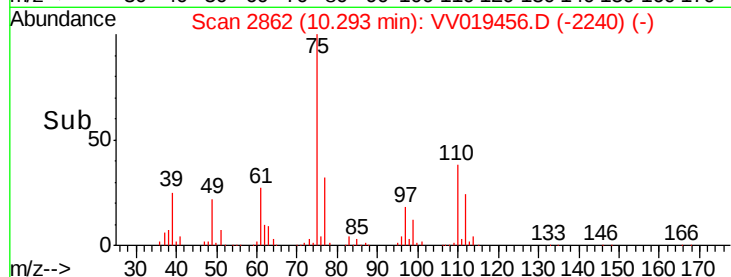
150000

100000

50000

0

Time--> 10.20 10.30 10.40



#61

Bromoform

Concen: 51.568 ug/L

RT: 9.75 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

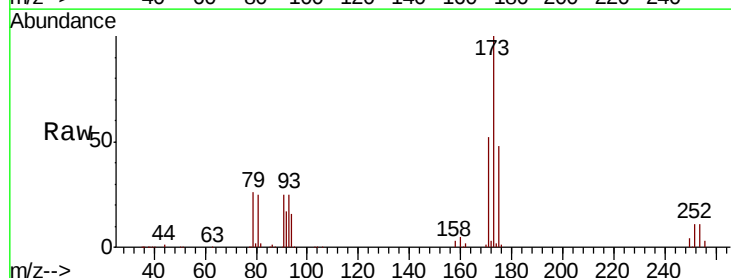
Tgt Ion: 173 Resp: 116911

Ion Ratio Lower Upper

173 100

175 49.2 38.8 58.2

254 10.9 8.6 13.0



Abundance Ion 173.00 (172.70 to 173.70): VV019443.D (-2681) (-)

Ion 175.00 (174.70 to 175.70): VV019443.D (-2681) (-)

Ion 254.00 (253.70 to 254.70): VV019443.D (-2681) (-)

9.75

100000

80000

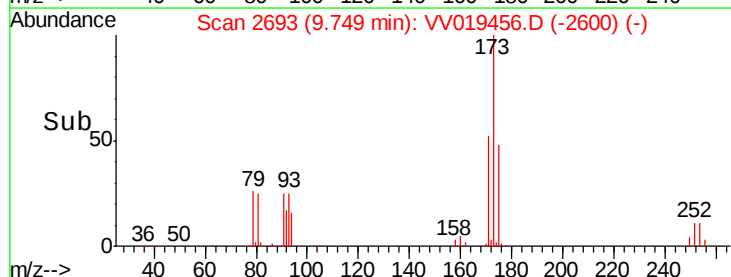
60000

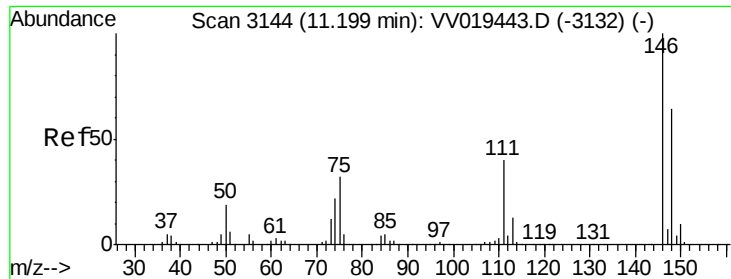
40000

20000

0

Time--> 9.70 9.75 9.80





#62

1,3-Dichlorobenzene

Concen: 50.071 ug/L

RT: 11.20 min Scan# 3144

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

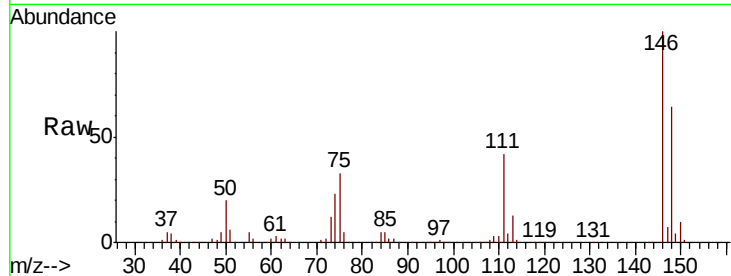
Tot Ion:146 Resp: 288865

Ion Ratio Lower Upper

146 100

111 41.8 27.9 51.7

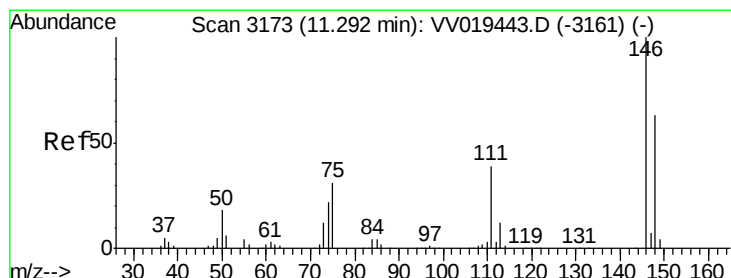
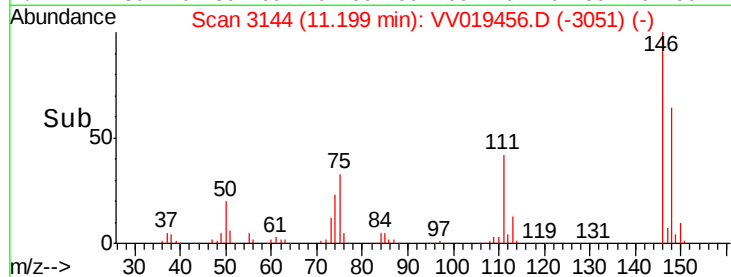
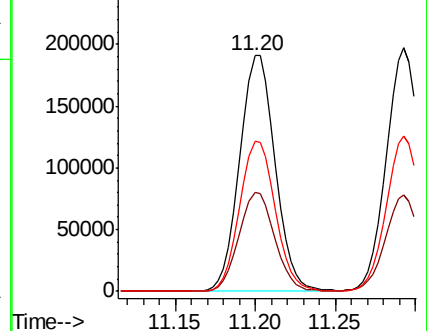
148 63.6 44.4 82.5



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



#63

1,4-Dichlorobenzene

Concen: 49.253 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

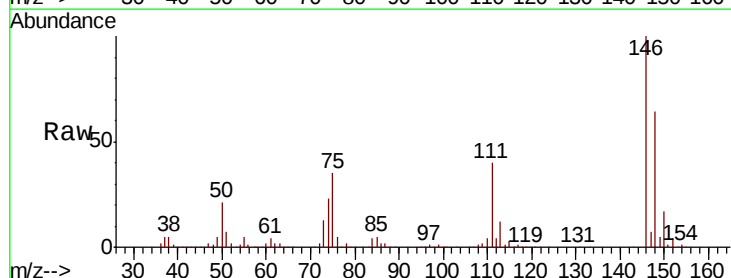
Tgt Ion:146 Resp: 298657

Ion Ratio Lower Upper

146 100

111 39.7 26.7 49.7

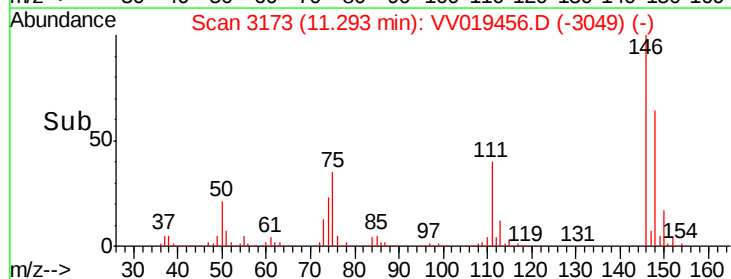
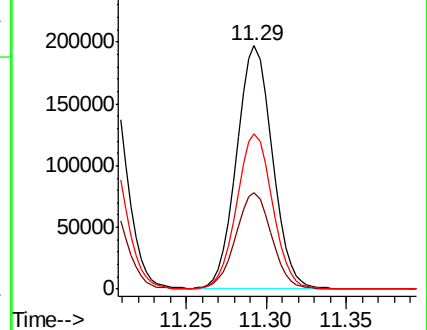
148 63.9 45.2 84.0

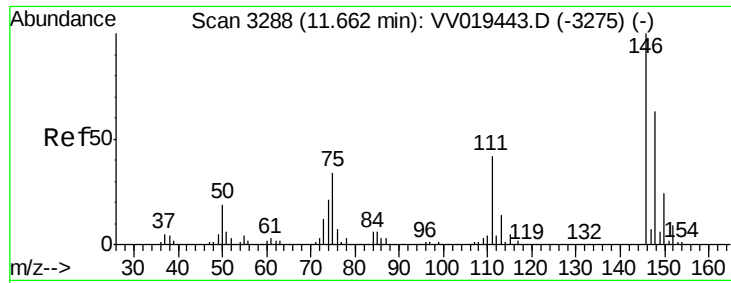


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 50.265 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

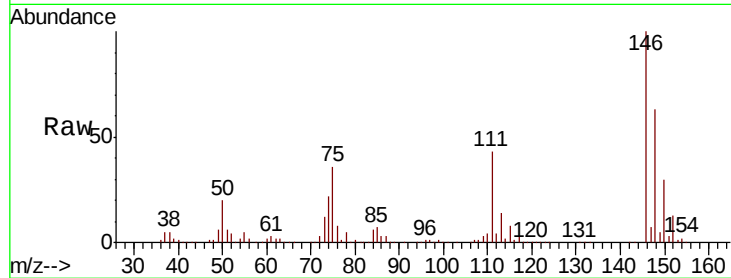
Tot Ion:146 Resp: 297721

Ion Ratio Lower Upper

146 100

111 43.5 33.8 50.8

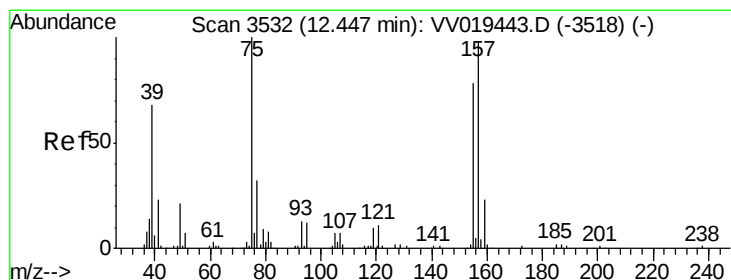
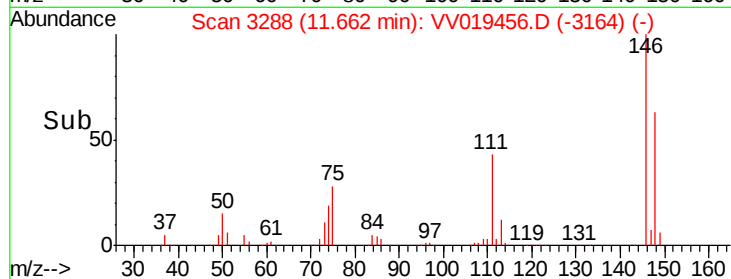
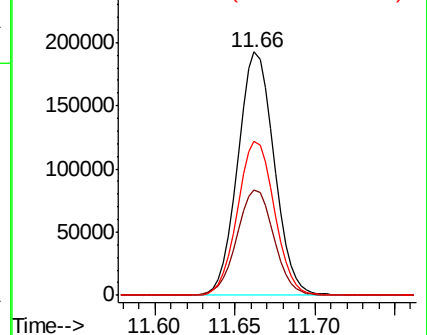
148 63.3 49.8 74.8



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: 56.574 ug/L

RT: 12.45 min Scan# 3532

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

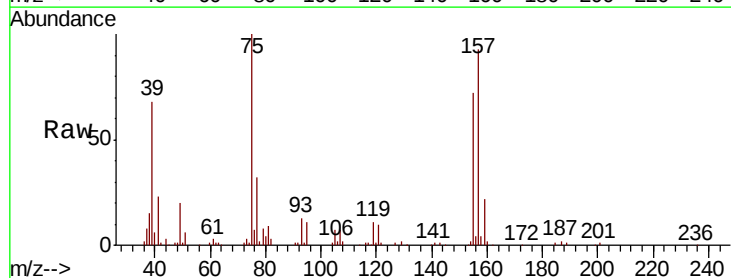
Tgt Ion: 75 Resp: 57984

Ion Ratio Lower Upper

75 100

155 72.4 64.5 96.7

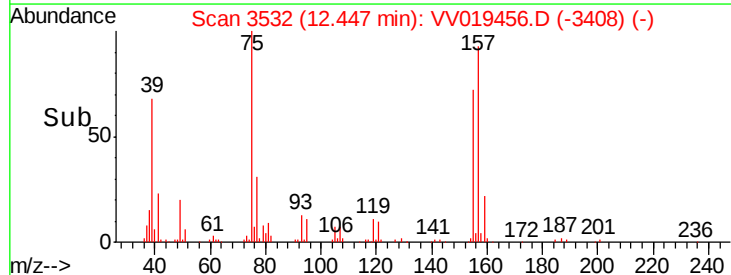
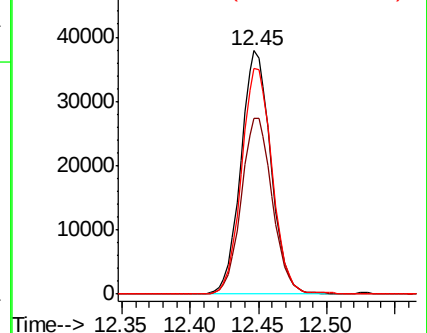
157 92.8 84.2 126.2

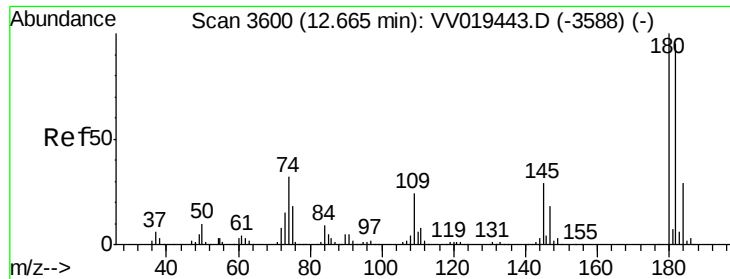


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

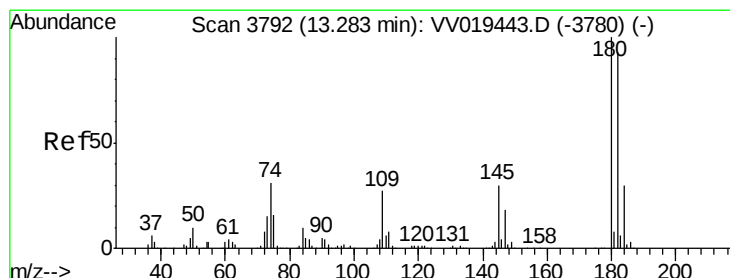
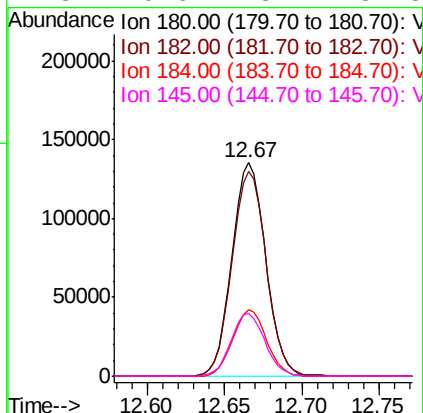
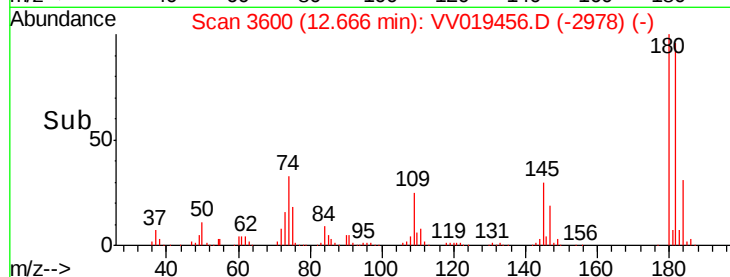
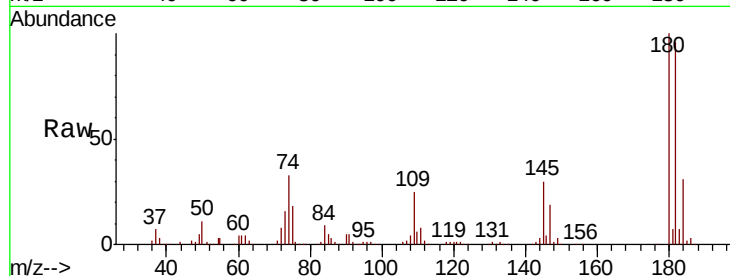




#67
 1,3,5-Trichlorobenzene
 Concen: 48.798 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019456.D
 Acq: 02 Dec 2020 19:08

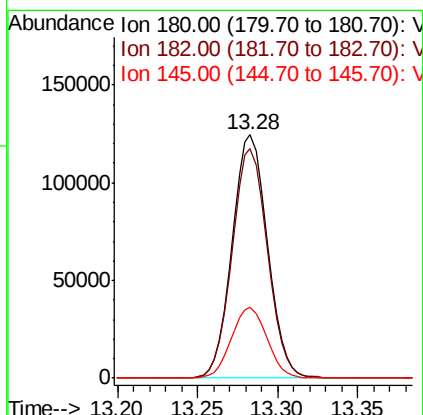
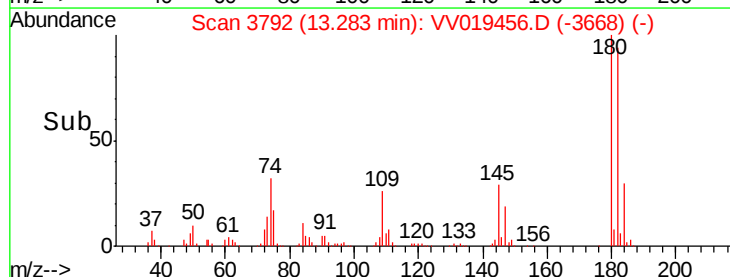
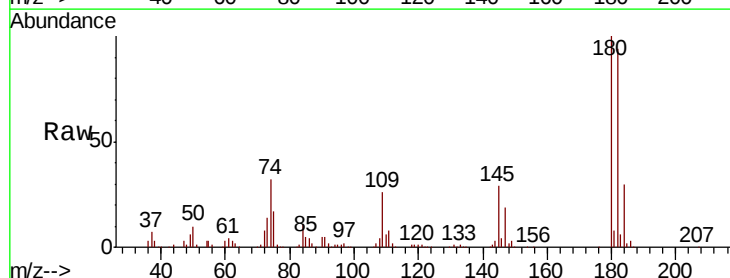
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05074

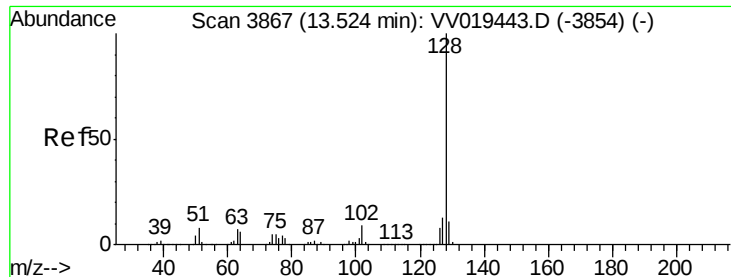
Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	77.0	115.4
184	31.1	24.2	36.2
145	29.6	23.2	34.8



#68
 1,2,4-trichlorobenzene
 Concen: 50.326 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019456.D
 Acq: 02 Dec 2020 19:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.3	114.5
145	29.3	23.4	35.2





#69

Naphthalene

Concen: 52.567 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

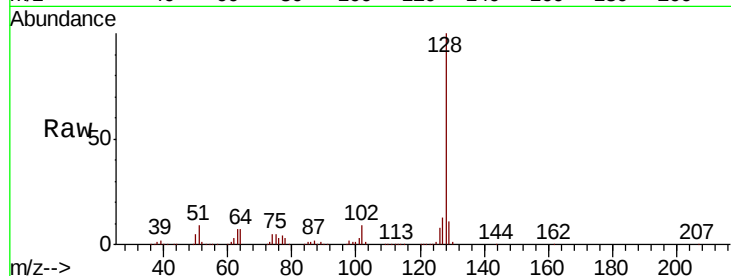
Tot Ion:128 Resp: 497003

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

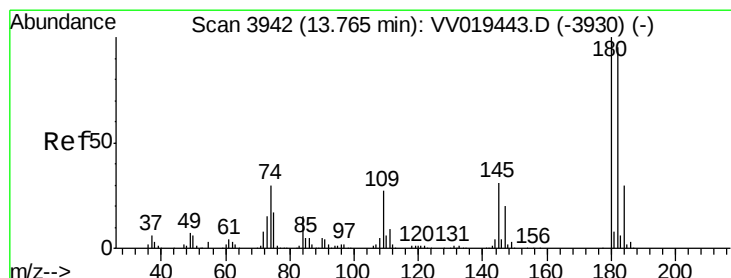
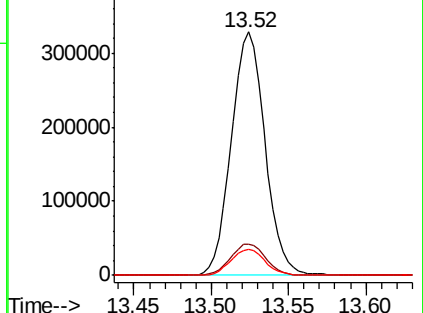
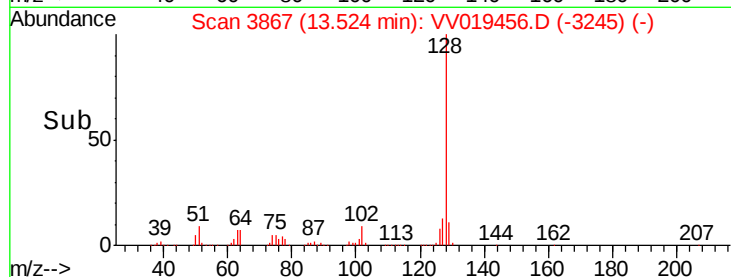
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.206 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV019456.D

Acq: 02 Dec 2020 19:08

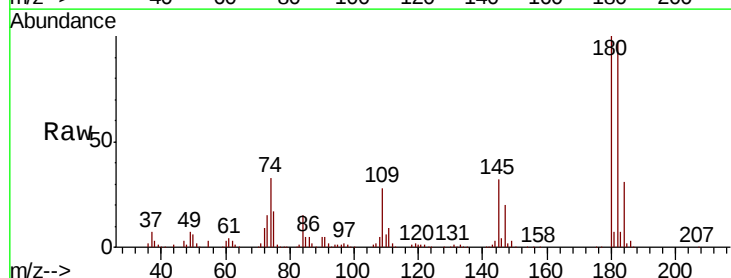
Tgt Ion:180 Resp: 199003

Ion Ratio Lower Upper

180 100

182 96.9 76.6 115.0

145 31.5 25.0 37.6



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

