

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040320\
 Data File : VU037567.D
 Acq On : 03 Apr 2020 14:08
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Quant Time: Apr 04 05:17:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 04 03:34:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	180276	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	169295	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	82039	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	68970	47.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.22%
7) Chloroethane-d5	1.93	69	54032	45.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.86%
11) 1,1-Dichloroethene-d2	2.59	63	121502	49.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.74%
21) 2-Butanone-d5	4.66	46	103797	94.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.32%
24) Chloroform-d	5.11	84	121648	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.64%
26) 1,2-Dichloroethane-d4	5.74	65	77559	47.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.72%
32) Benzene-d6	5.76	84	236560	48.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.44%
36) 1,2-Dichloropropane-d6	6.72	67	79011	47.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.70%
41) Toluene-d8	7.92	98	220421	48.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.44%
43) trans-1,3-Dichloropropene-	8.20	79	43615	48.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.30%
47) 2-Hexanone-d5	8.66	63	81023	92.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.61%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	113086	47.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.82%
64) 1,2-Dichlorobenzene-d4	12.21	152	78411	46.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.68%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	56994	48.903	ug/L 99
3) Chloromethane	1.54	50	60773	49.159	ug/L 100
5) Vinyl chloride	1.62	62	60487	49.272	ug/L 98
6) Bromomethane	1.87	94	33281	54.969	ug/L 99
8) Chloroethane	1.95	64	35202	48.620	ug/L 97
9) Trichlorofluoromethane	2.16	101	87552	50.269	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	50117	50.449	ug/L 98
12) 1,1-Dichloroethene	2.60	96	48766	50.570	ug/L 91
13) Acetone	2.66	43	60275	94.759	ug/L 97
14) Carbon disulfide	2.82	76	137616	49.404	ug/L 99
15) Methyl Acetate	2.98	43	72055	49.989	ug/L 100
16) Methylene chloride	3.08	84	59549	50.910	ug/L 98
17) trans-1,2-Dichloroethene	3.39	96	50795	48.916	ug/L 95
18) Methyl tert-butyl Ether	3.40	73	193418	53.137	ug/L 99
19) 1,1-Dichloroethane	3.91	63	104357	51.294	ug/L 98
20) cis-1,2-Dichloroethene	4.71	96	60684	50.747	ug/L 98
22) 2-Butanone	4.75	43	103573	99.761	ug/L 99

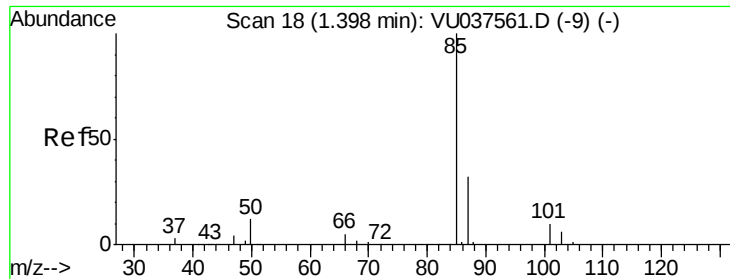
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040320\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	30630	53.366	ug/L	97
25) Chloroform	5.13	83	107865	50.851	ug/L	97
27) 1,2-Dichloroethane	5.83	62	85685	52.341	ug/L	100
29) Cyclohexane	5.43	56	89017	50.172	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	91421	50.943	ug/L	99
31) Carbon tetrachloride	5.56	117	72574	49.136	ug/L	99
33) Benzene	5.81	78	226771	51.122	ug/L	100
34) Trichloroethene	6.57	95	57917	49.933	ug/L	97
35) Methylcyclohexane	6.79	83	86651	48.351	ug/L	97
37) 1,2-Dichloropropane	6.82	63	65036	51.457	ug/L	98
38) Bromodichloromethane	7.14	83	84099	51.160	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	104420	52.896	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	213654	104.173	ug/L	100
42) Toluene	8.00	91	240657	50.134	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	100452	51.672	ug/L	96
45) 1,1,2-Trichloroethane	8.42	97	61946	53.682	ug/L	97
46) Tetrachloroethene	8.58	164	38407	49.316	ug/L	95
48) 2-Hexanone	8.71	43	163676	102.622	ug/L	99
49) Dibromochloromethane	8.83	129	67793	52.672	ug/L	99
50) 1,2-Dibromoethane	8.95	107	66117	52.099	ug/L	95
51) Chlorobenzene	9.47	112	150611	50.584	ug/L	98
52) Ethylbenzene	9.59	91	272000	50.106	ug/L	100
53) m,p-Xylene	9.71	106	100349	49.558	ug/L	97
54) o-xylene	10.12	106	99188	50.824	ug/L	96
55) Styrene	10.13	104	172651	49.962	ug/L	99
56) Isopropylbenzene	10.50	105	265311	50.140	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	109056	52.424	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	85036	52.337	ug/L	99
61) Bromoform	10.31	173	48726	51.955	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	115784	48.878	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	118179	49.430	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	117060	49.908	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	27186	48.321	ug/L	93
67) 1,3,5-Trichlorobenzene	13.24	180	81181	49.374	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	79370	50.636	ug/L	96
69) Naphthalene	14.12	128	320179	48.215	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	80245	50.677	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 48.903 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

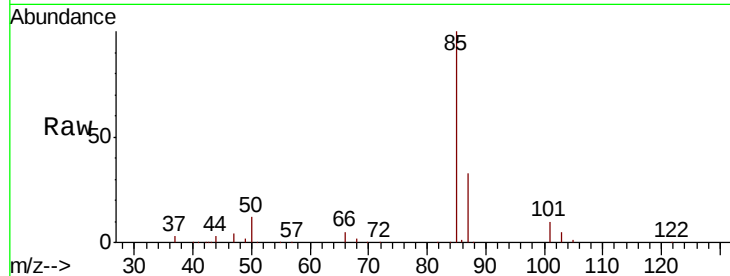
VSTD05057

Tot Ion: 85 Resp: 56994

Ion Ratio Lower Upper

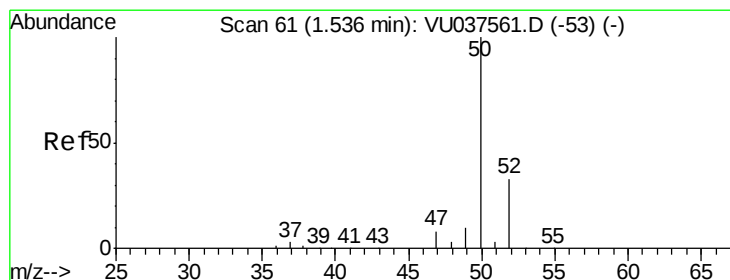
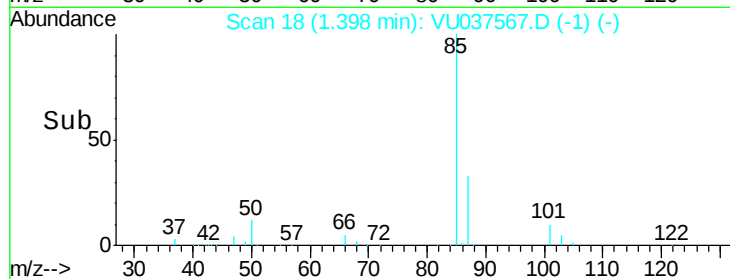
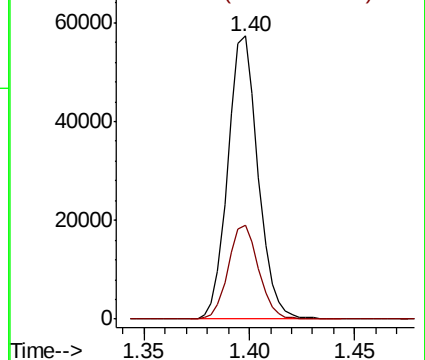
85 100

87 33.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037561.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037561.D (-9) (-)



#3

Chloromethane

Concen: 49.159 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037567.D

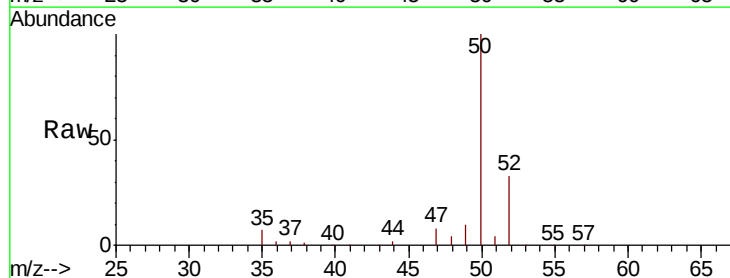
Acq: 03 Apr 2020 14:08

Tgt Ion: 50 Resp: 60773

Ion Ratio Lower Upper

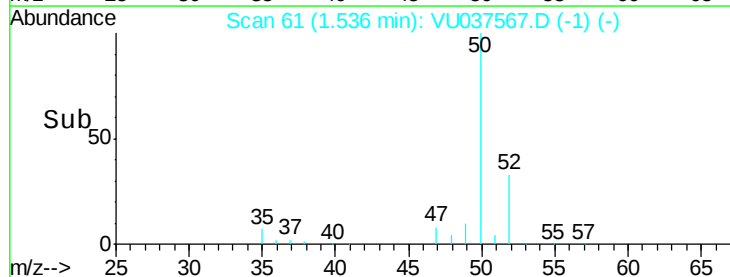
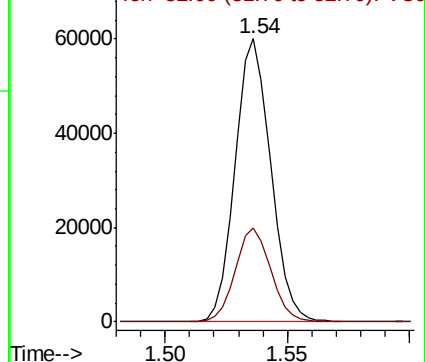
50 100

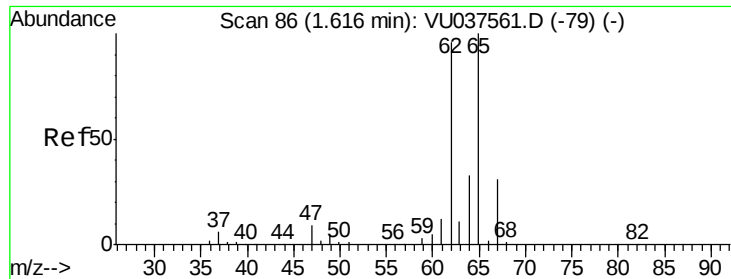
52 33.4 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU037561.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU037561.D (-53) (-)





#5

Vinyl chloride

Concen: 49.272 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

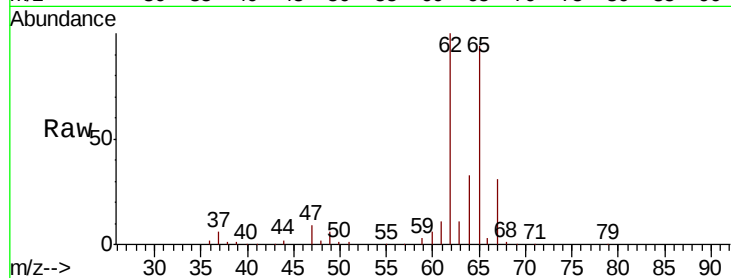
VSTD05057

Tot Ion: 62 Resp: 60487

Ion Ratio Lower Upper

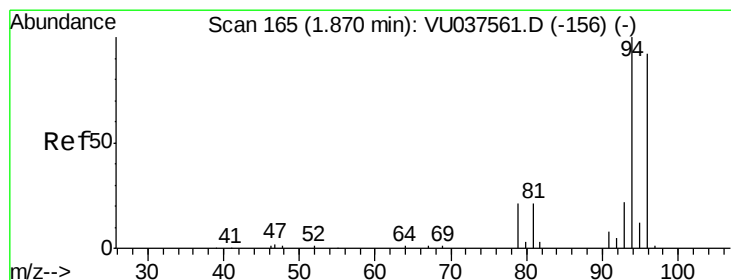
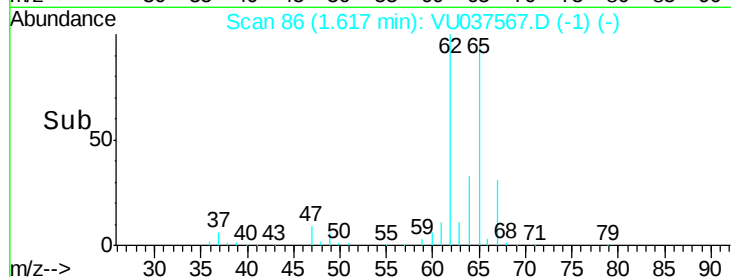
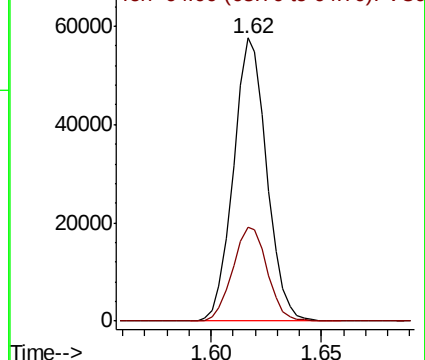
62 100

64 33.2 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 54.969 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU037567.D

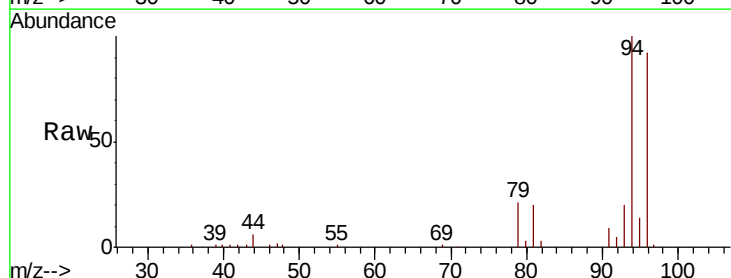
Acq: 03 Apr 2020 14:08

Tgt Ion: 94 Resp: 33281

Ion Ratio Lower Upper

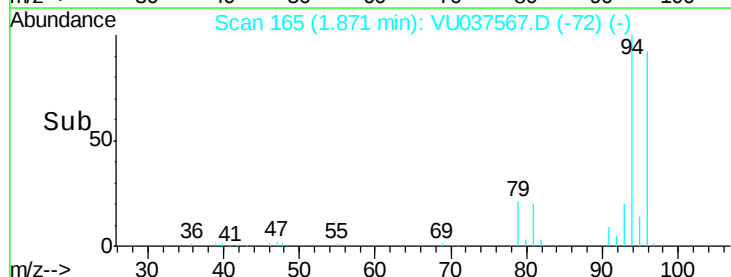
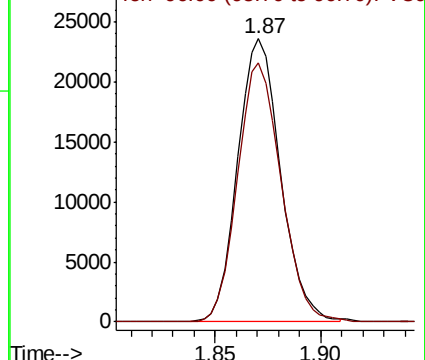
94 100

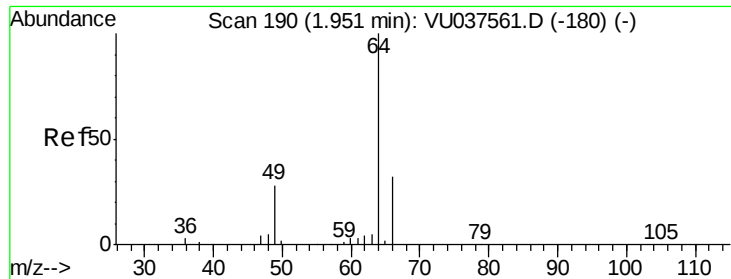
96 91.5 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 48.620 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

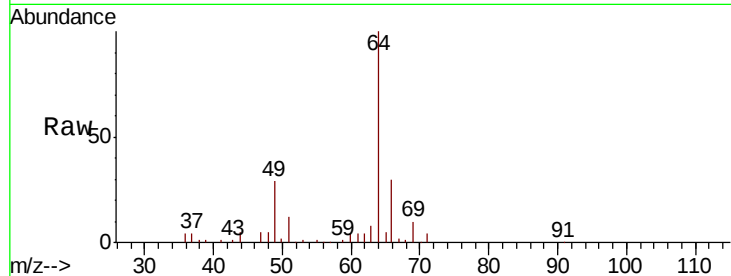
VSTD05057

Tot Ion: 64 Resp: 35202

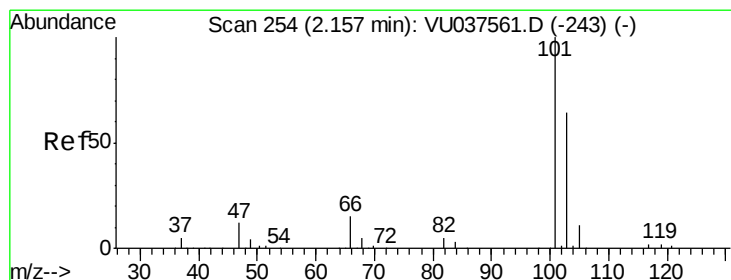
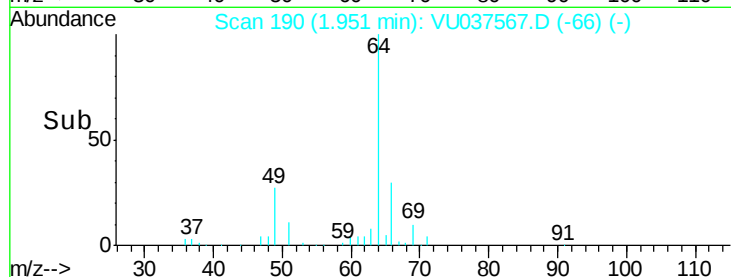
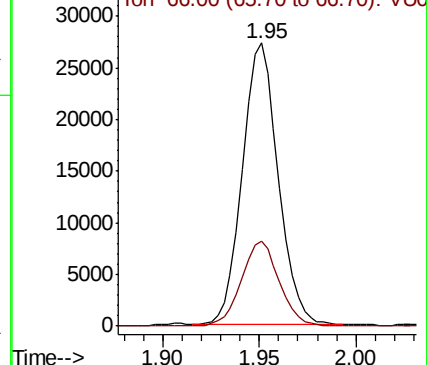
Ion Ratio Lower Upper

64 100

66 29.9 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VU037567.D (-180) (-)



#9

Trichlorofluoromethane

Concen: 50.269 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037567.D

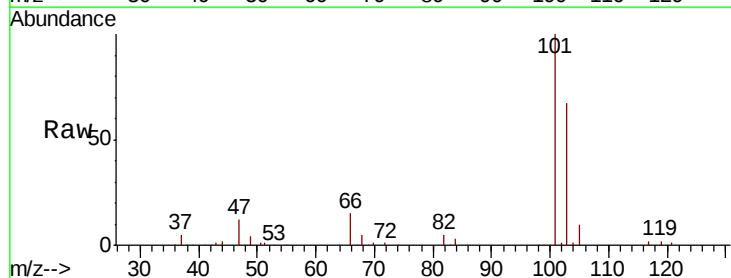
Acq: 03 Apr 2020 14:08

Tgt Ion:101 Resp: 87552

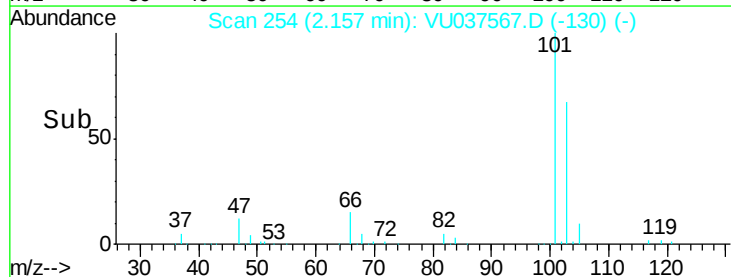
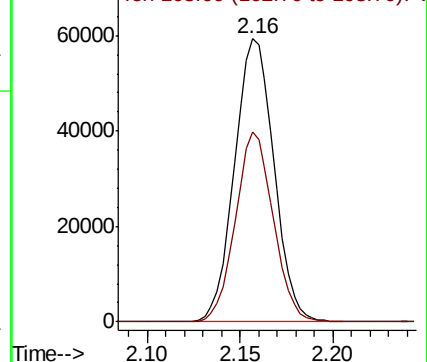
Ion Ratio Lower Upper

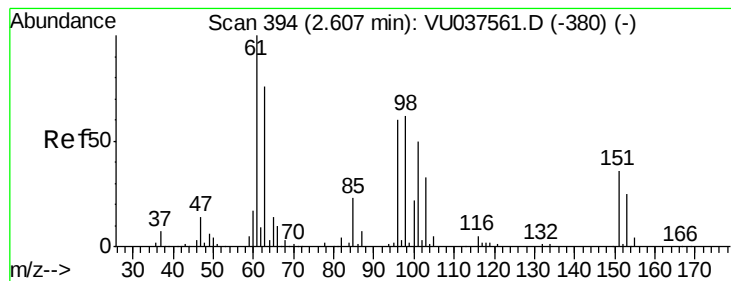
101 100

103 64.2 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU037567.D (-243) (-)





#10

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

Concen: 50.449 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

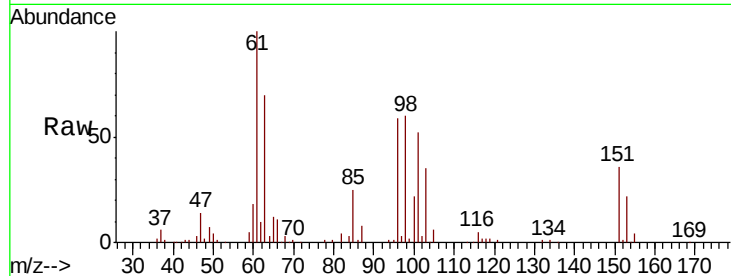
Tot Ion:101 Resp: 50117

Ion Ratio Lower Upper

101 100

85 45.8 35.4 53.2

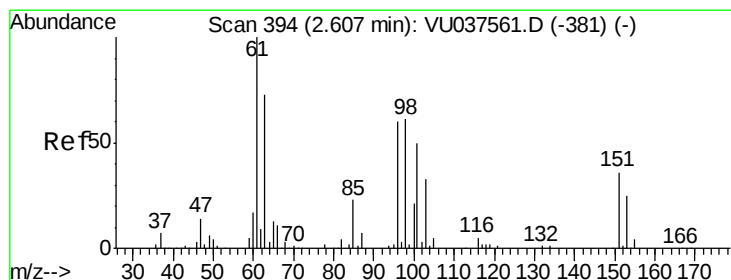
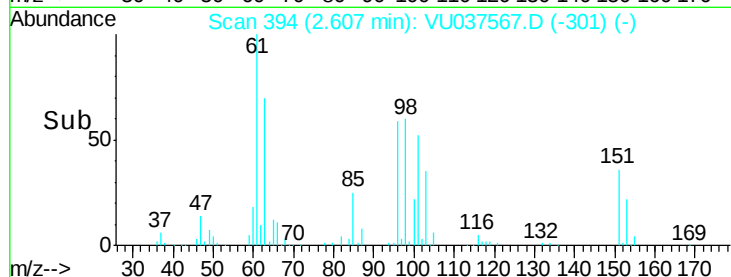
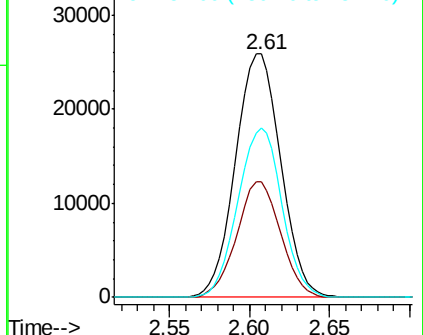
151 67.5 55.3 82.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 50.570 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

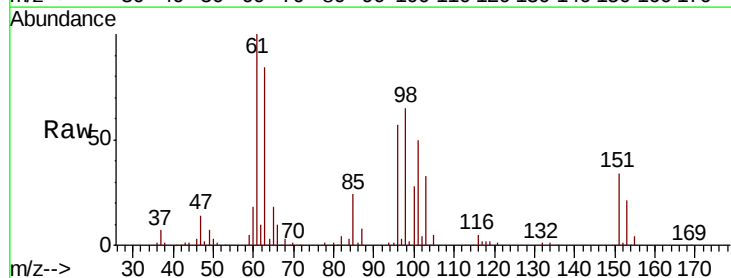
Tgt Ion: 96 Resp: 48766

Ion Ratio Lower Upper

96 100

61 174.1 117.2 217.8

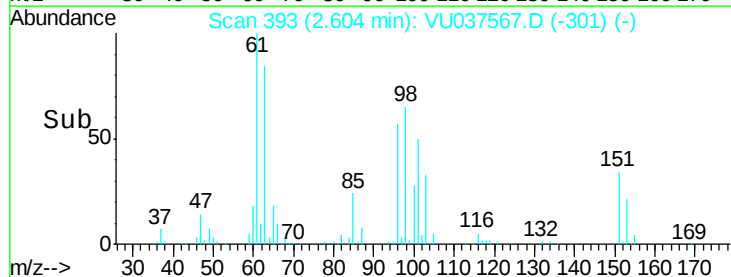
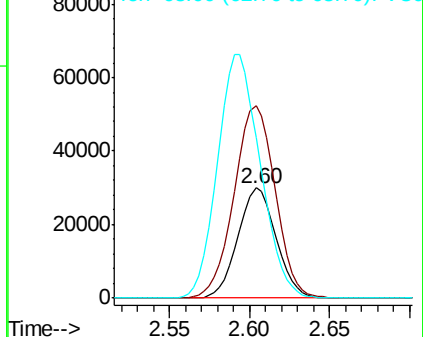
63 145.5 90.9 168.9

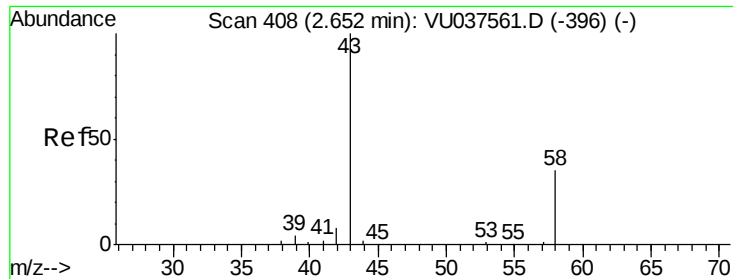


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 94.759 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

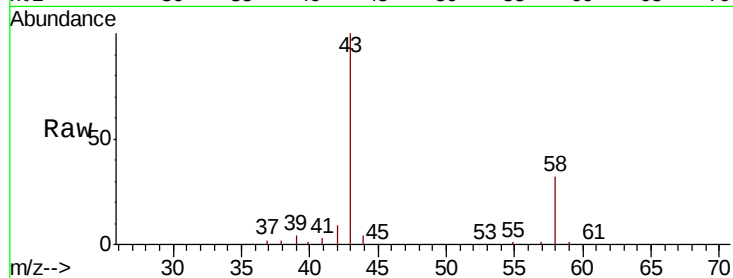
VSTD05057

Tot Ion: 43 Resp: 60275

Ion Ratio Lower Upper

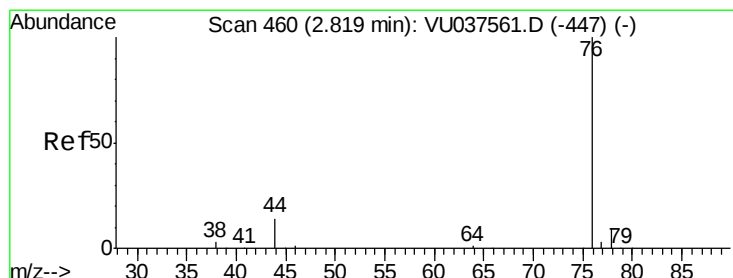
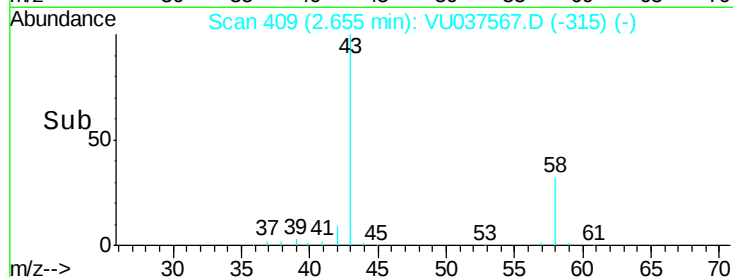
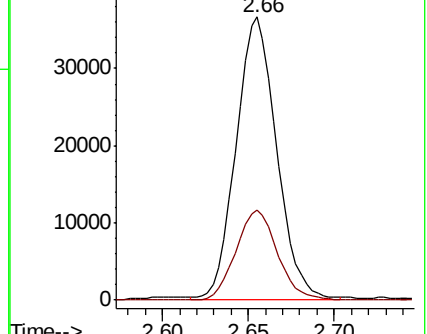
43 100

58 32.4 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VU037567.D (-315) (-)

Ion 58.00 (57.70 to 58.70): VU037567.D (-315) (-)



#14

Carbon disulfide

Concen: 49.404 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037567.D

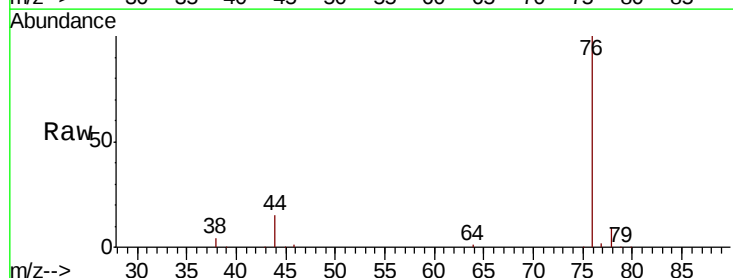
Acq: 03 Apr 2020 14:08

Tgt Ion: 76 Resp: 137616

Ion Ratio Lower Upper

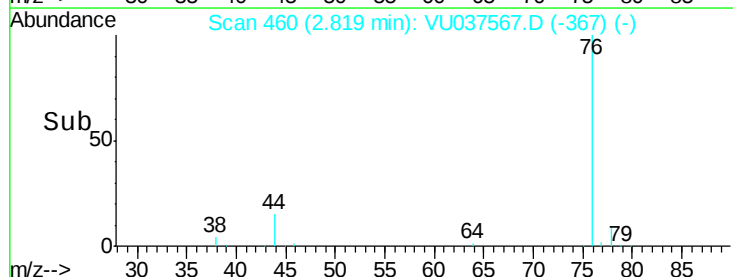
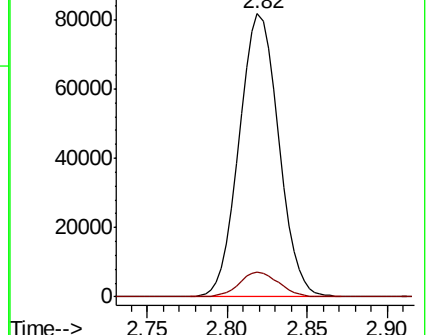
76 100

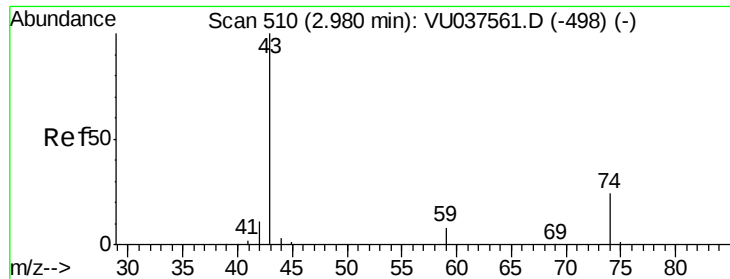
78 8.7 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU037567.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037567.D (-367) (-)

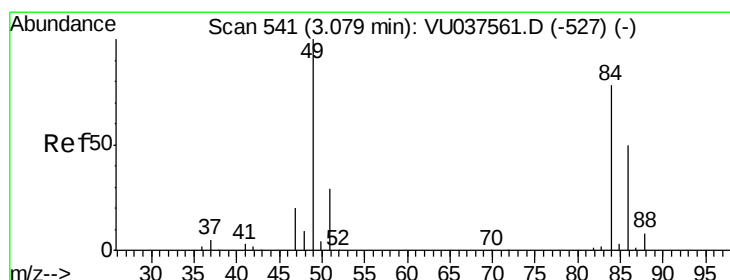
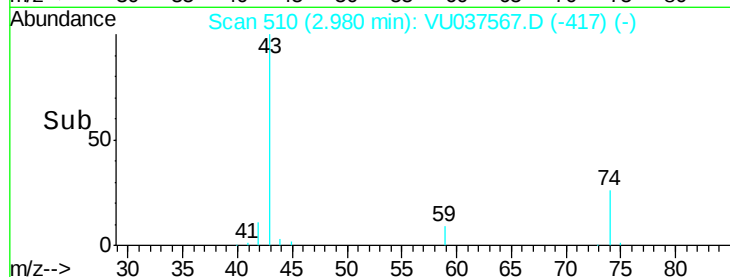
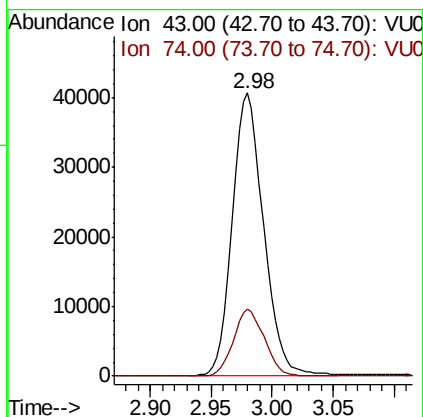
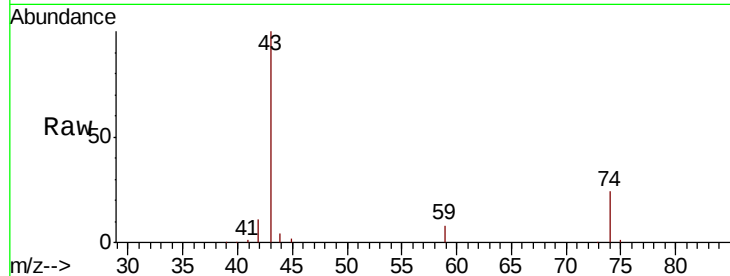




#15
Methvl Acetate
Concen: 49.989 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037567.D
Acq: 03 Apr 2020 14:08

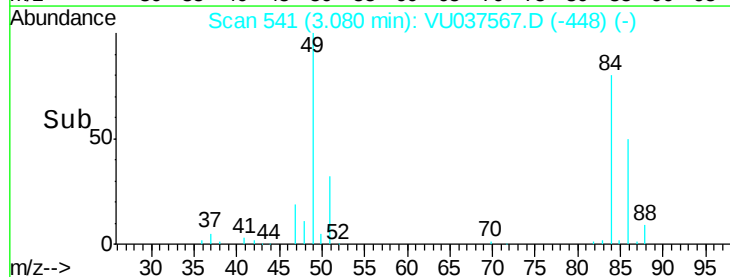
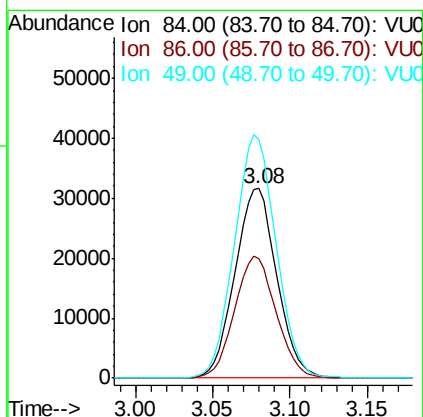
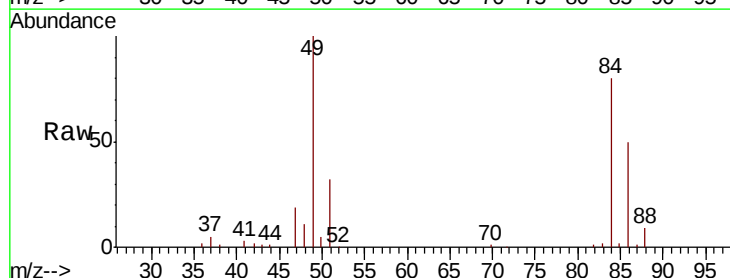
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

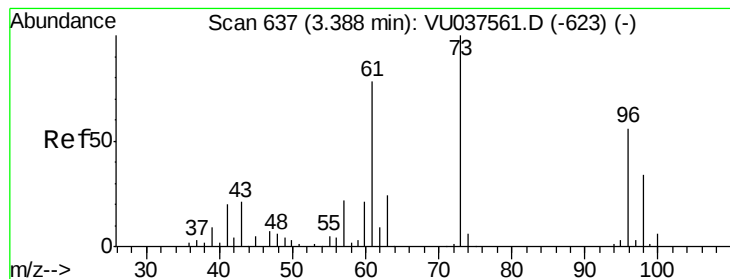
Tot Ion: 43 Resp: 72055
Ion Ratio Lower Upper
43 100
74 23.5 18.8 28.2



#16
Methylene chloride
Concen: 50.910 ug/L
RT: 3.08 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU037567.D
Acq: 03 Apr 2020 14:08

Tgt Ion: 84 Resp: 59549
Ion Ratio Lower Upper
84 100
86 63.2 44.8 83.2
49 125.6 89.7 166.5





#17

trans-1,2-Dichloroethene

Concen: 48.916 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleID :

VSTD05057

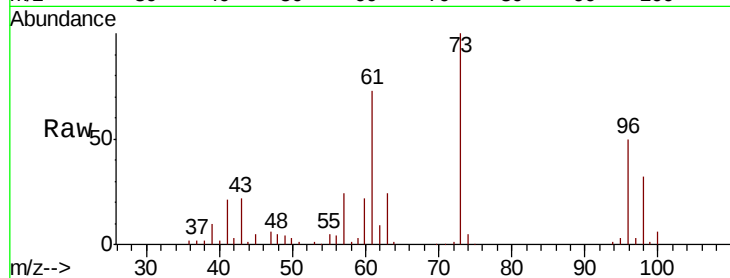
Tot Ion: 96 Resp: 50795

Ion Ratio Lower Upper

96 100

61 145.2 97.3 180.7

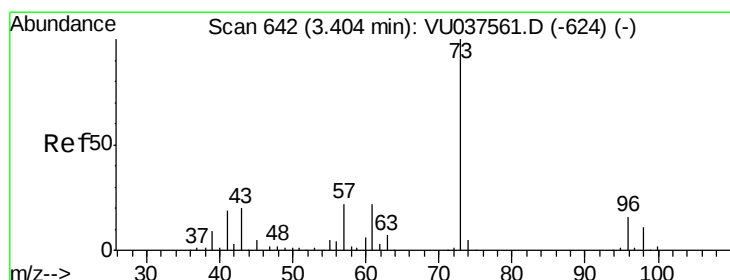
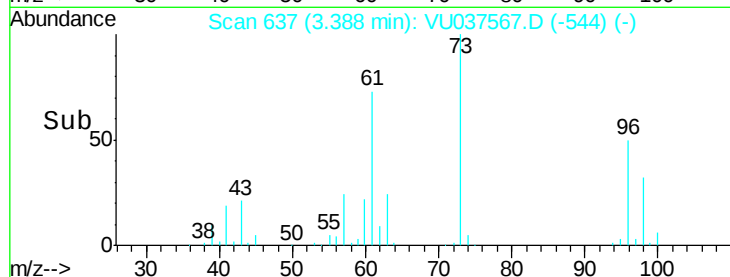
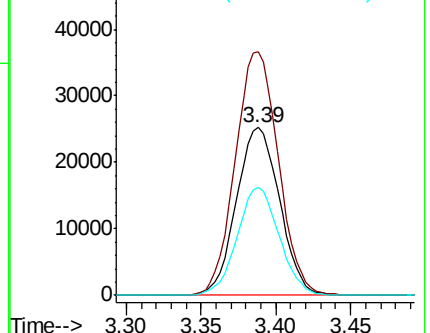
98 64.3 42.7 79.3



Abundance Ion 96.00 (95.70 to 96.70): VU037567.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU037567.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU037567.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 53.137 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

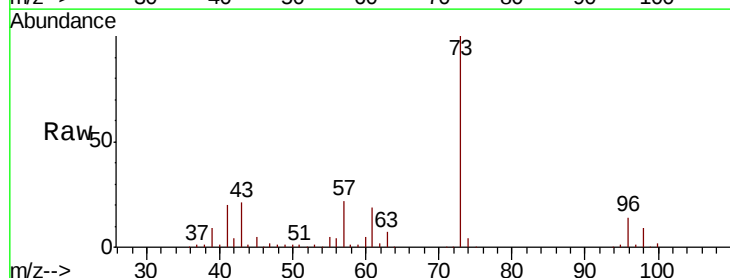
Tgt Ion: 73 Resp: 193418

Ion Ratio Lower Upper

73 100

43 21.1 16.4 24.6

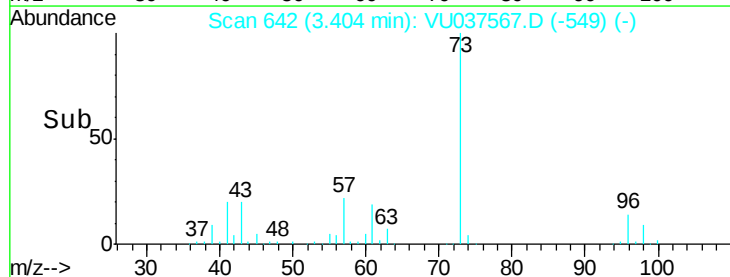
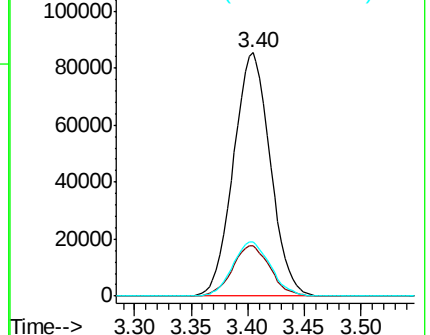
57 22.8 17.7 26.5

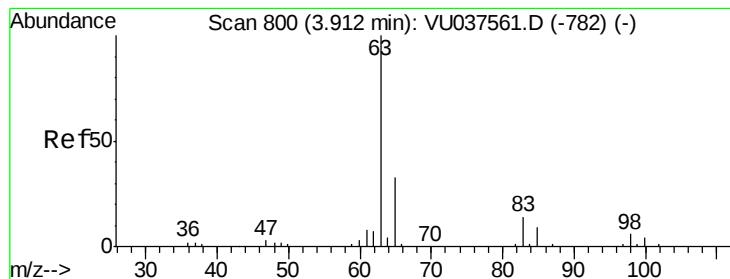


Abundance Ion 73.00 (72.70 to 73.70): VU037567.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037567.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037567.D (-549) (-)





#19

1,1-Dichloroethane

Concen: 51.294 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

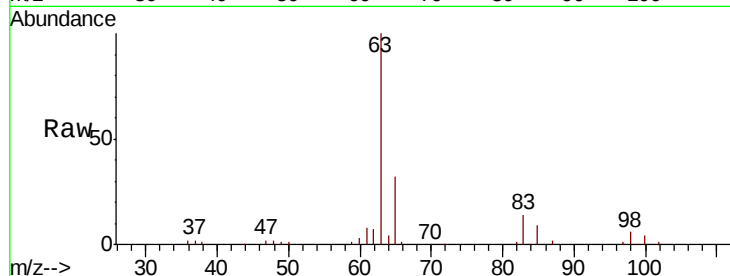
Tot Ion: 63 Resp: 104357

Ion Ratio Lower Upper

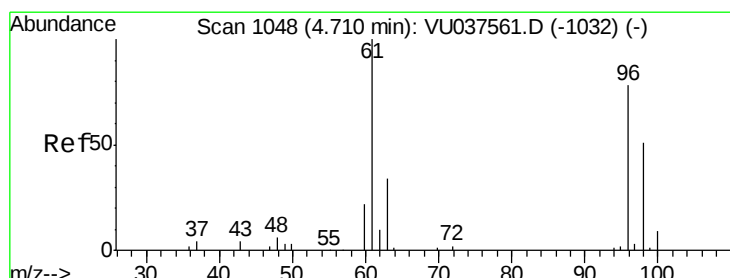
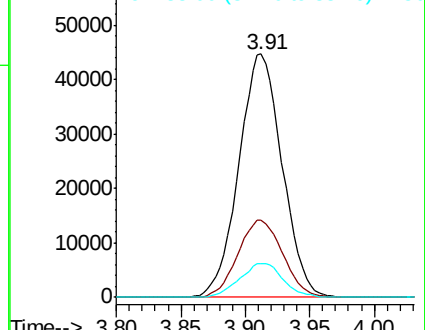
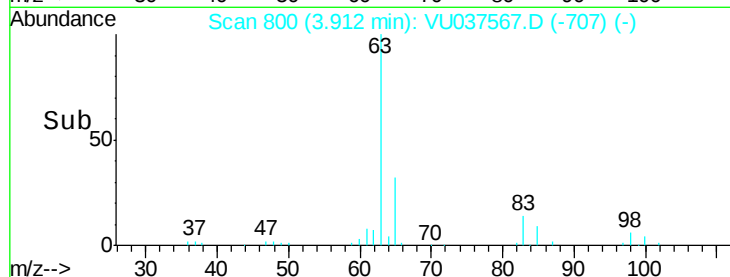
63 100

65 31.8 23.2 43.2

83 14.0 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VU037567.D (-707) (-)



#20

cis-1,2-Dichloroethene

Concen: 50.747 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

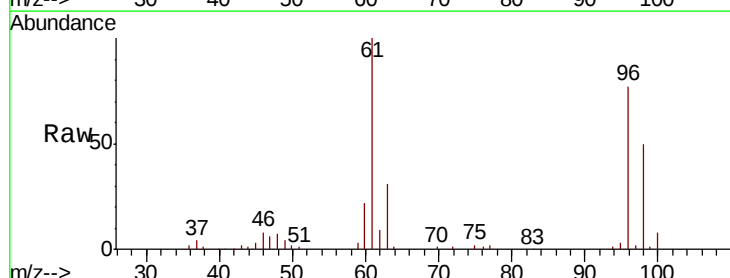
Tgt Ion: 96 Resp: 60684

Ion Ratio Lower Upper

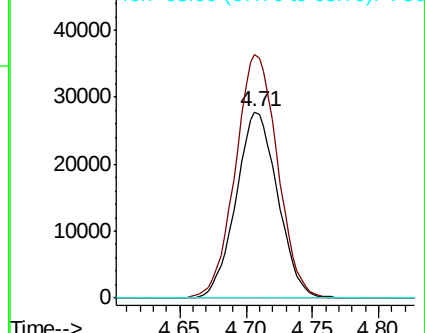
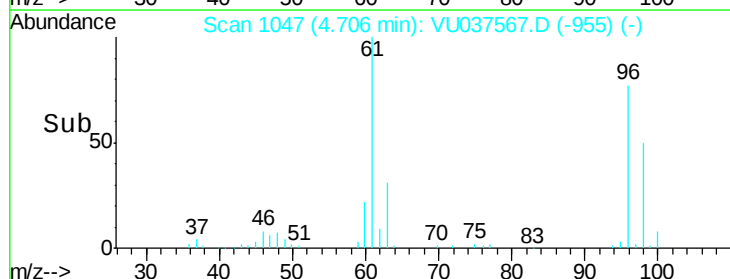
96 100

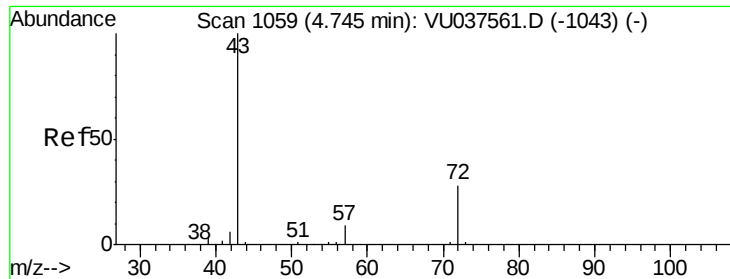
61 130.7 90.2 167.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037567.D (-955) (-)





#22

2-Butanone

Concen: 99.761 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampled :

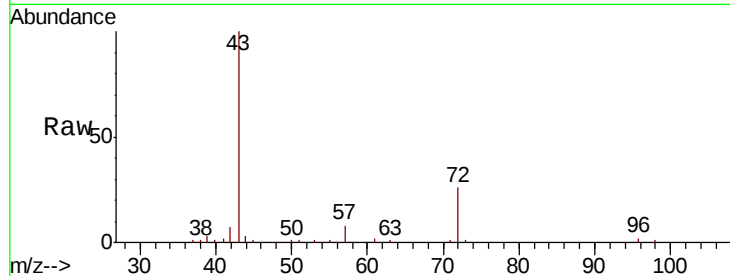
VSTD05057

Tot Ion: 43 Resp: 103573

Ion Ratio Lower Upper

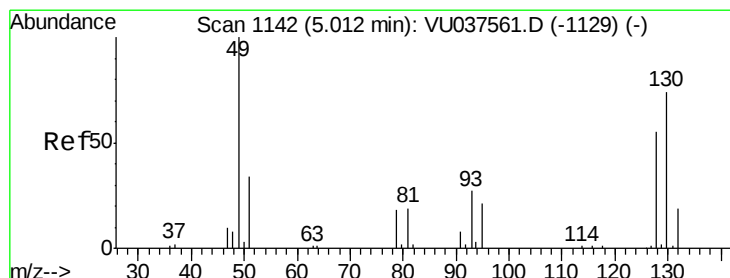
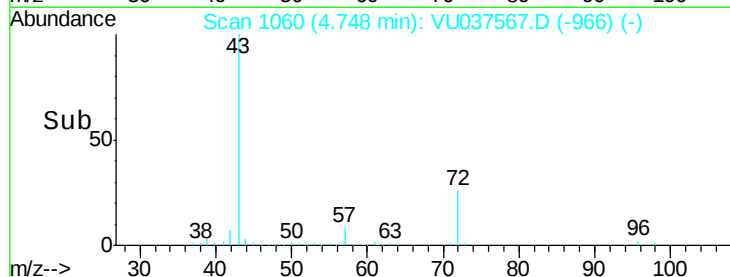
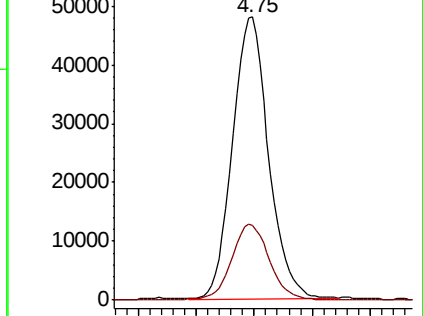
43 100

72 28.1 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU037567.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU037567.D (-966) (-)



#23

Bromochloromethane

Concen: 53.366 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Tgt Ion:128 Resp: 30630

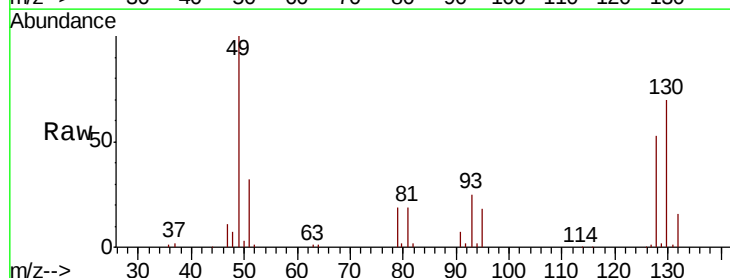
Ion Ratio Lower Upper

128 100

49 189.9 127.3 236.5

130 133.2 93.9 174.5

51 60.1 49.4 74.0

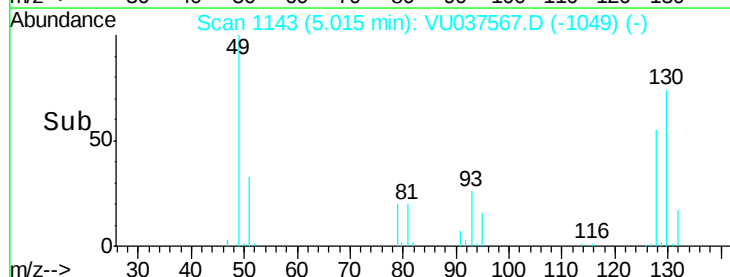
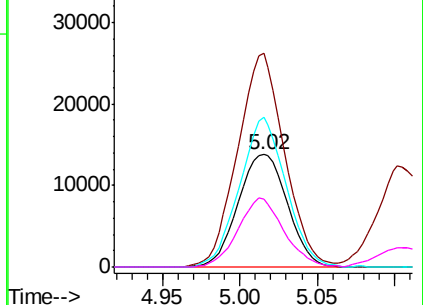


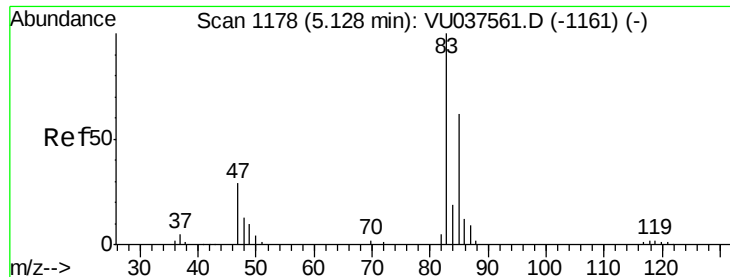
Abundance Ion 128.00 (127.70 to 128.70): VU037567.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037567.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037567.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037567.D (-1049) (-)

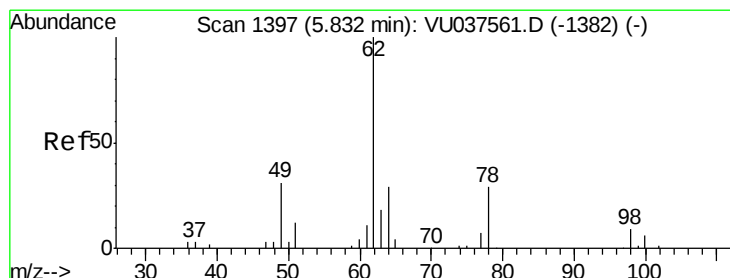
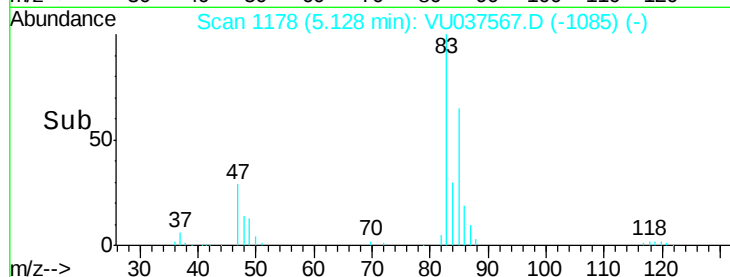
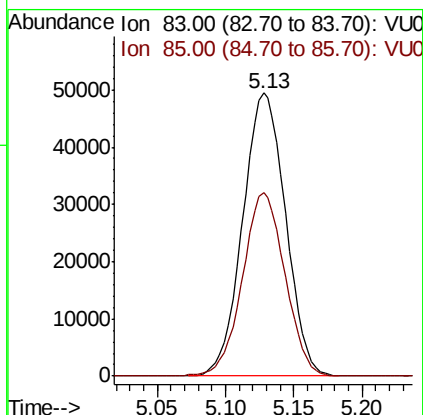
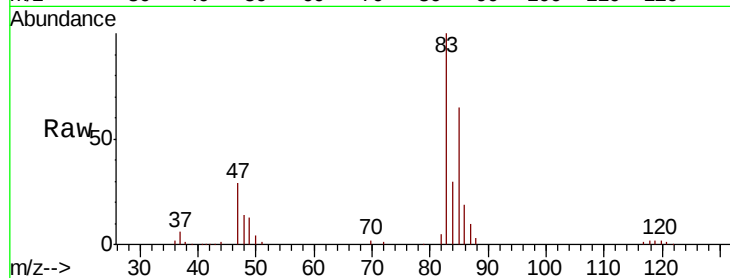




#25
Chloroform
Concen: 50.851 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037567.D
Acq: 03 Apr 2020 14:08

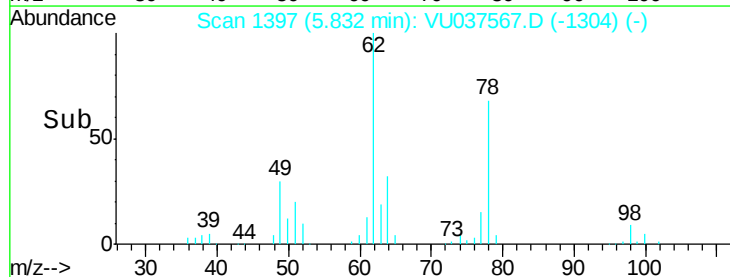
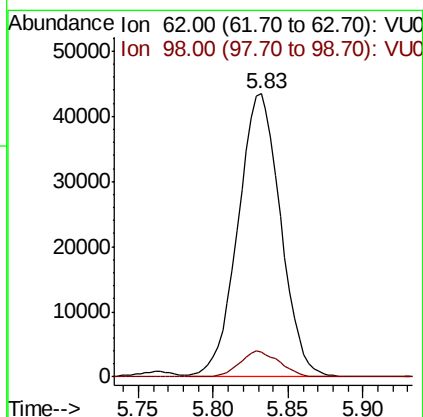
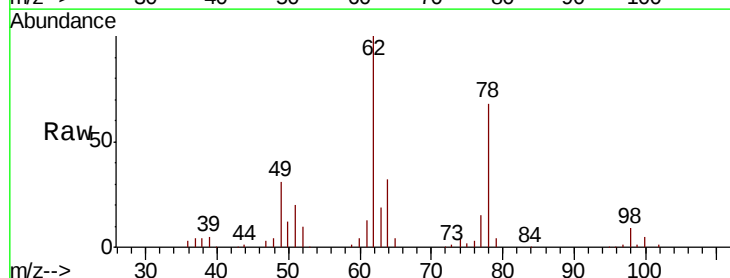
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

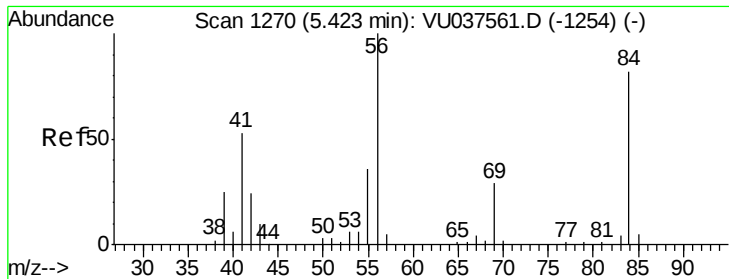
Tot Ion: 83 Resp: 107865
Ion Ratio Lower Upper
83 100
85 64.8 43.7 81.1



#27
1,2-Dichloroethane
Concen: 52.341 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037567.D
Acq: 03 Apr 2020 14:08

Tgt Ion: 62 Resp: 85685
Ion Ratio Lower Upper
62 100
98 8.8 7.1 10.7

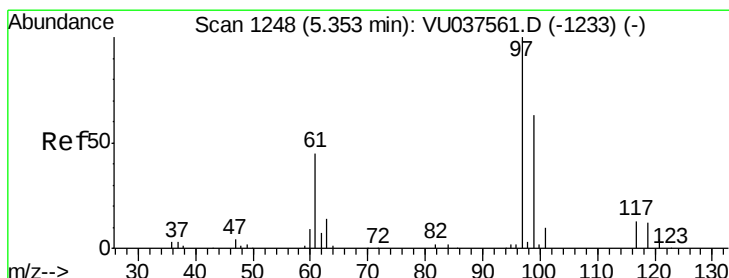
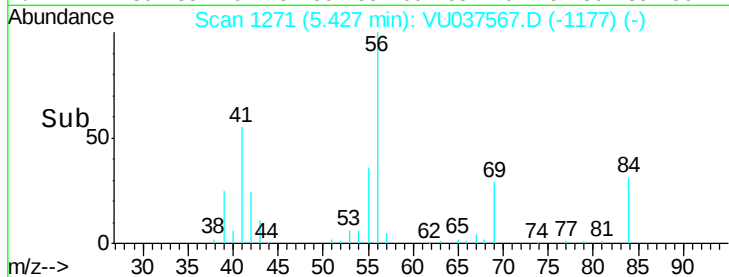
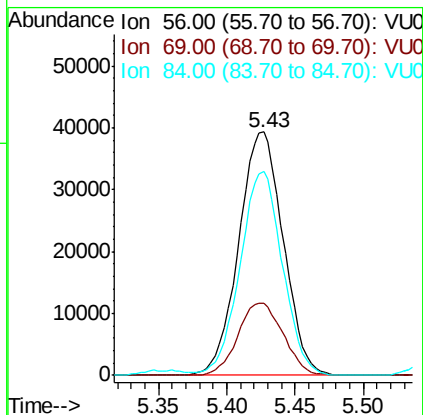
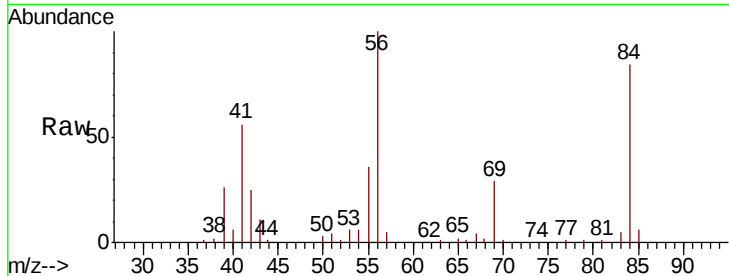




#29
Cyclohexane
Concen: 50.172 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU037567.D
Acq: 03 Apr 2020 14:08

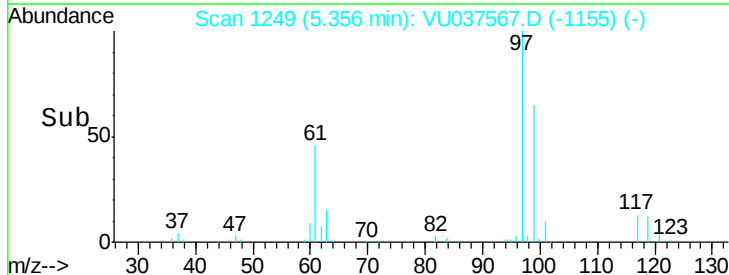
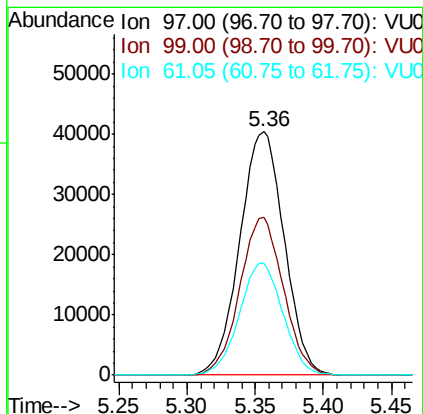
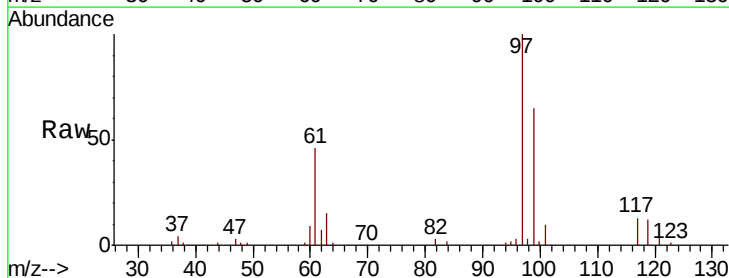
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

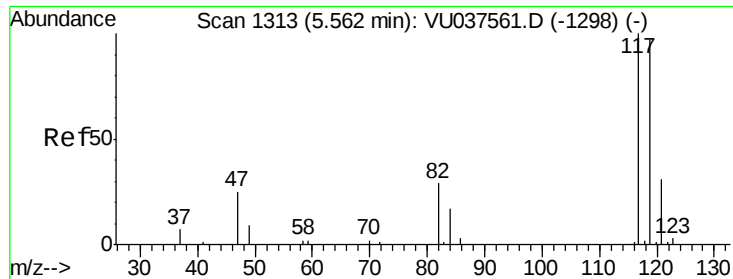
Tot Ion: 56 Resp: 89017
Ion Ratio Lower Upper
56 100
69 30.1 23.8 35.6
84 80.2 65.4 98.0



#30
1,1,1-Trichloroethane
Concen: 50.943 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU037567.D
Acq: 03 Apr 2020 14:08

Tgt Ion: 97 Resp: 91421
Ion Ratio Lower Upper
97 100
99 63.6 50.6 75.8
61 45.2 35.8 53.8





#31

Carbon tetrachloride

Concen: 49.136 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

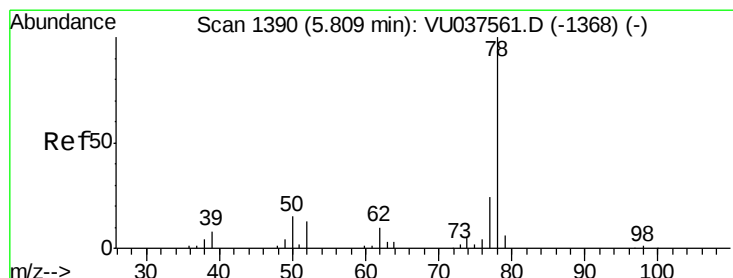
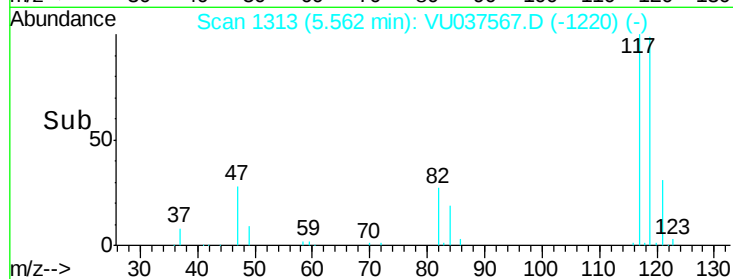
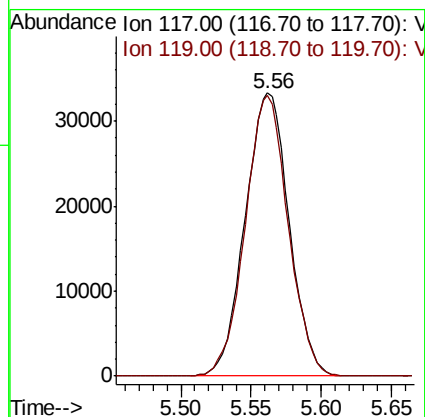
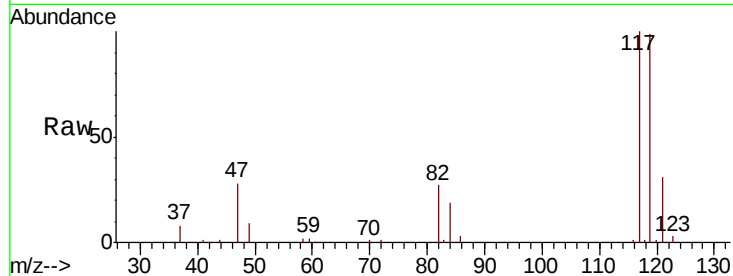
VSTD05057

Tot Ion:117 Resp: 72574

Ion Ratio Lower Upper

117 100

119 96.8 77.8 116.8



#33

Benzene

Concen: 51.122 ug/L

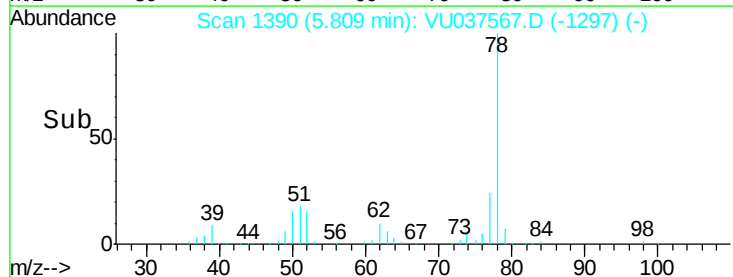
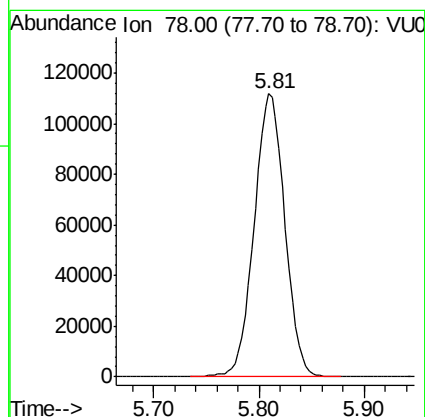
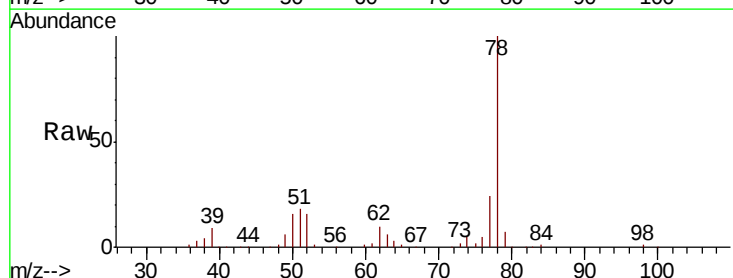
RT: 5.81 min Scan# 1390

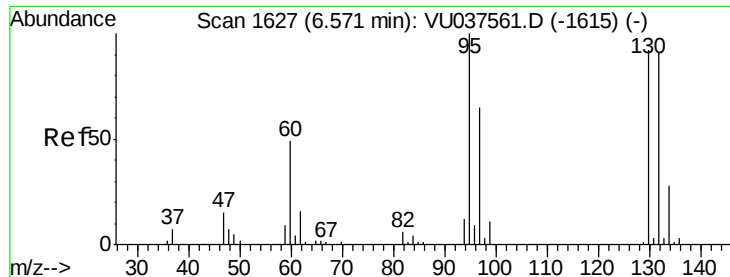
Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Tgt Ion: 78 Resp: 226771

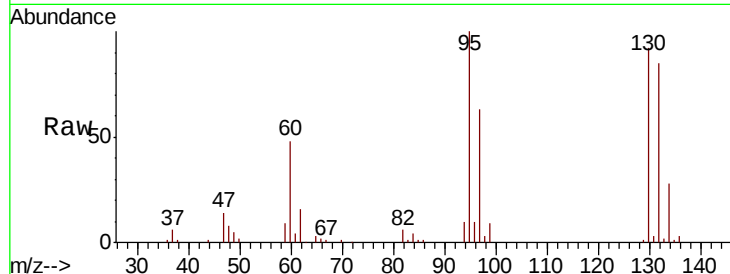




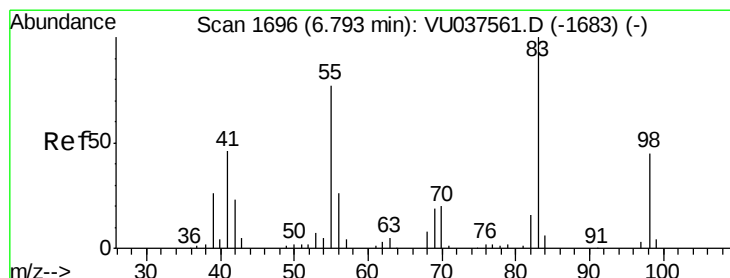
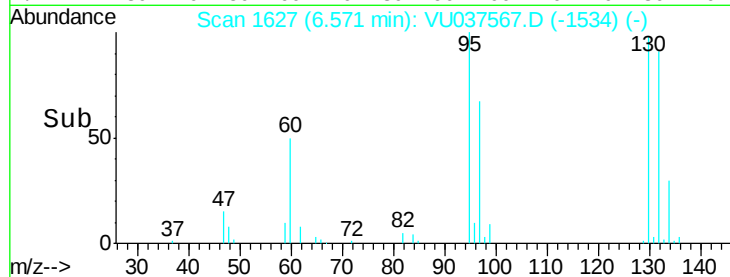
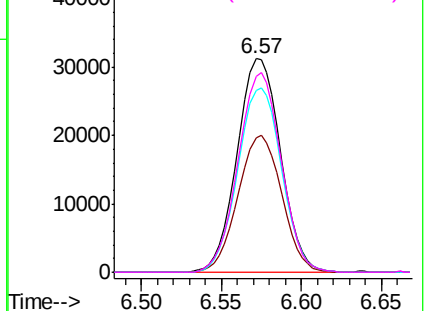
#34
 Trichloroethene
 Concen: 49.933 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tot Ion: 95 Resp: 57917
 Ion Ratio Lower Upper
 95 100
 97 62.8 45.2 84.0
 132 85.4 63.7 118.3
 130 91.7 64.5 119.7

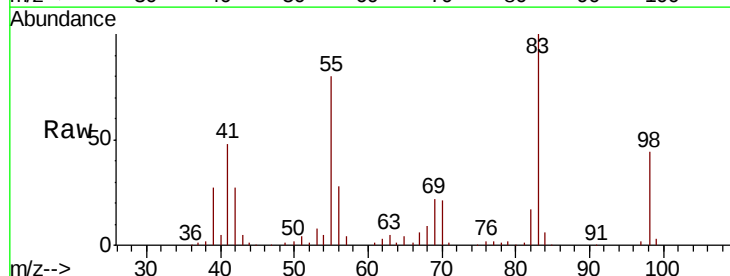


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

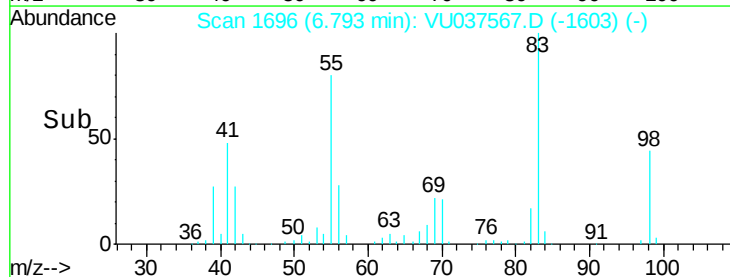
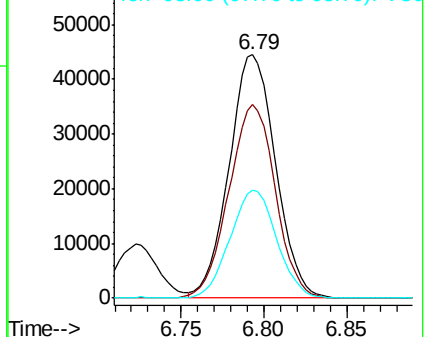


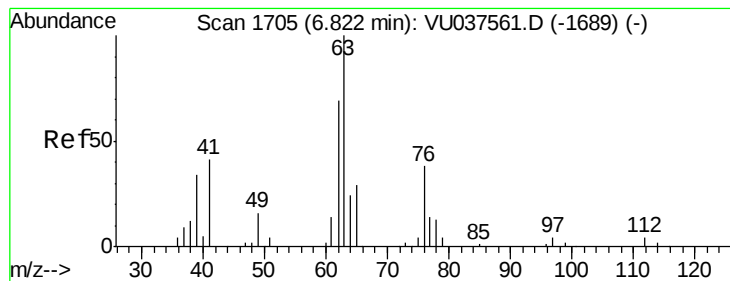
#35
 Methylcyclohexane
 Concen: 48.351 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

Tgt Ion: 83 Resp: 86651
 Ion Ratio Lower Upper
 83 100
 55 79.6 61.1 91.7
 98 44.6 35.3 52.9



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 51.457 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

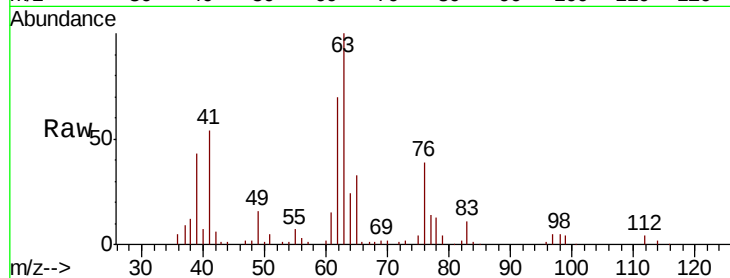
VSTD05057

Tot Ion: 63 Resp: 65036

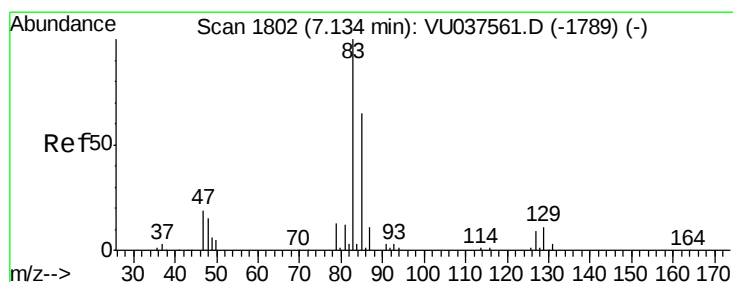
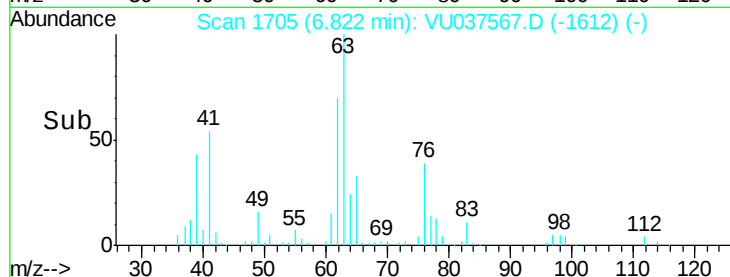
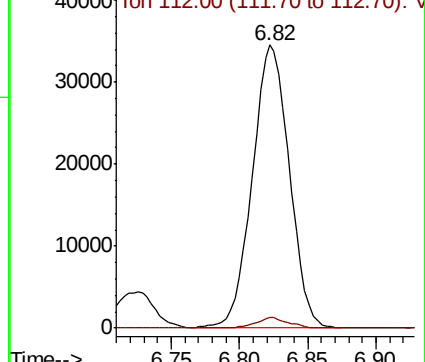
Ion Ratio Lower Upper

63 100

112 3.2 3.1 4.7



Abundance Ion 63.00 (62.70 to 63.70): VU037567.D (-1612) (-)



#38

Bromodichloromethane

Concen: 51.160 ug/L

RT: 7.14 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

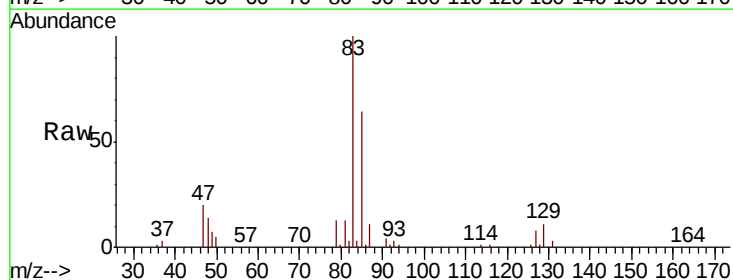
Tgt Ion: 83 Resp: 84099

Ion Ratio Lower Upper

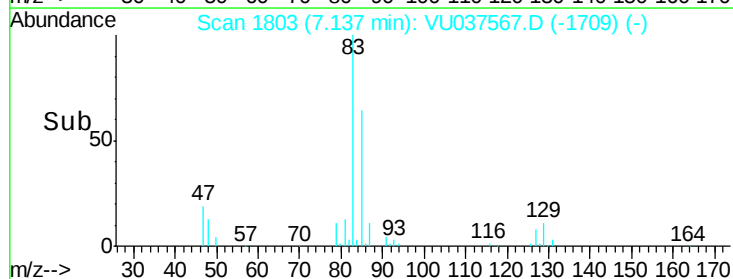
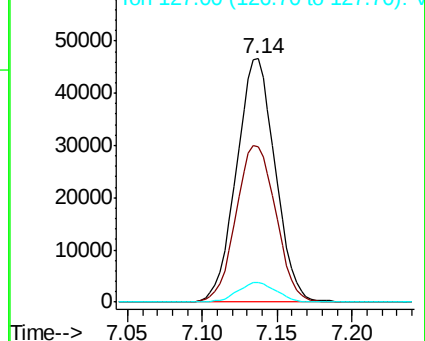
83 100

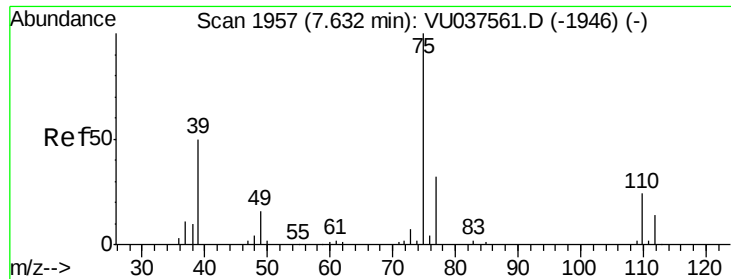
85 63.9 45.2 84.0

127 8.1 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU037567.D (-1709) (-)

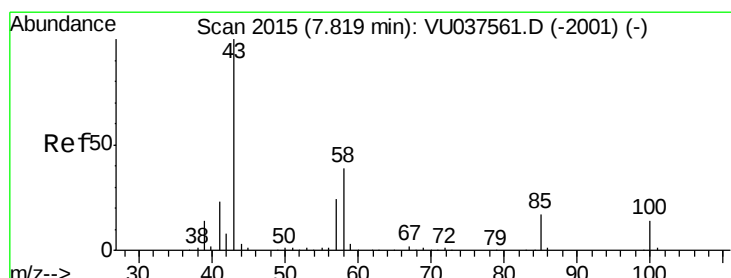
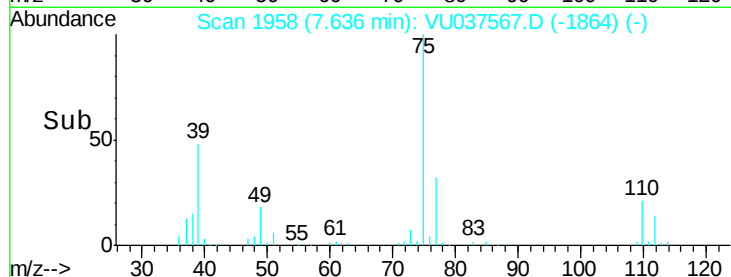
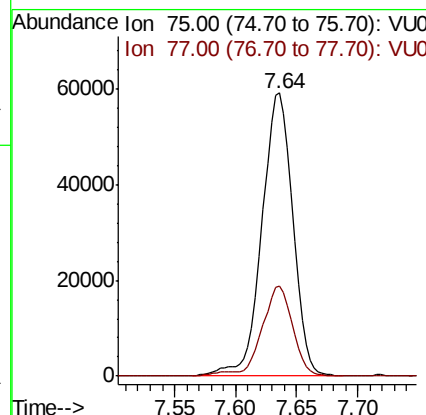
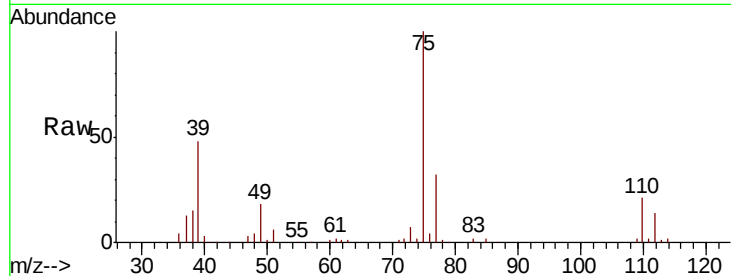




#39
 cis-1,3-Dichloropropene
 Concen: 52.896 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

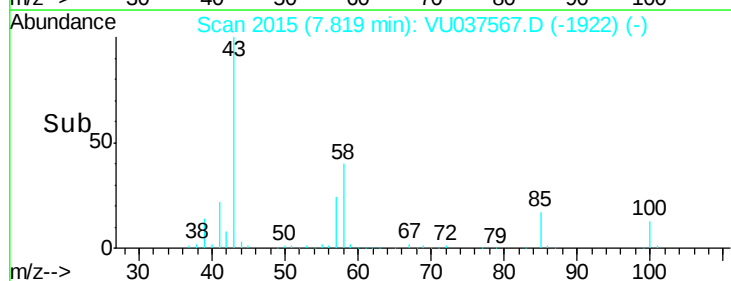
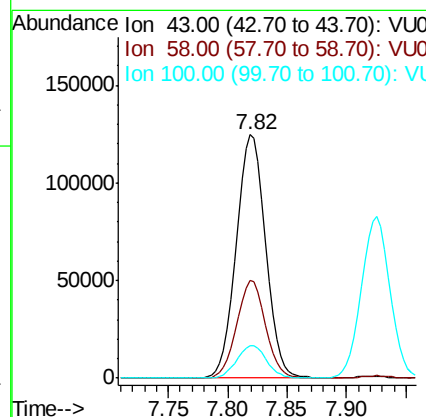
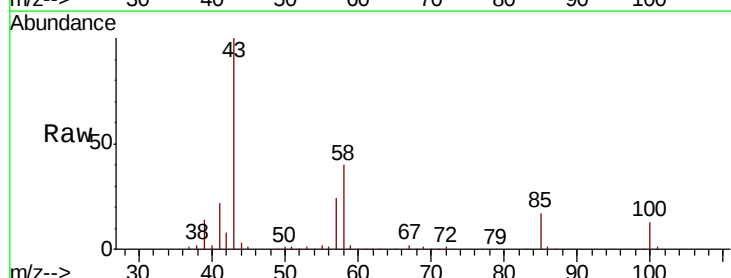
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

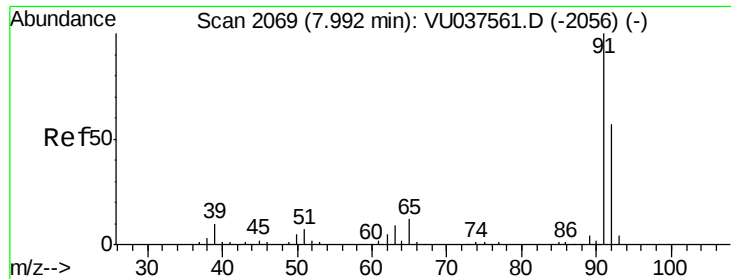
Tot Ion: 75 Resp: 104420
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 104.173 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

Tgt Ion: 43 Resp: 213654
 Ion Ratio Lower Upper
 43 100
 58 39.1 31.4 47.0
 100 13.5 11.0 16.4





#42

Toluene

Concen: 50.134 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

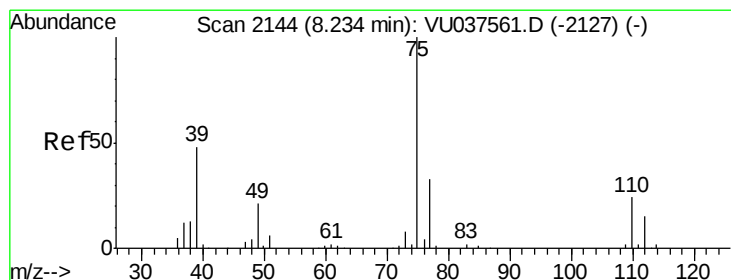
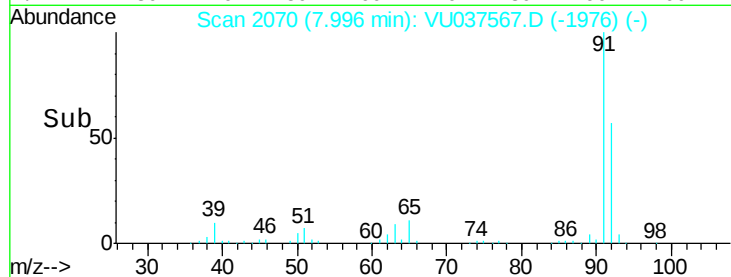
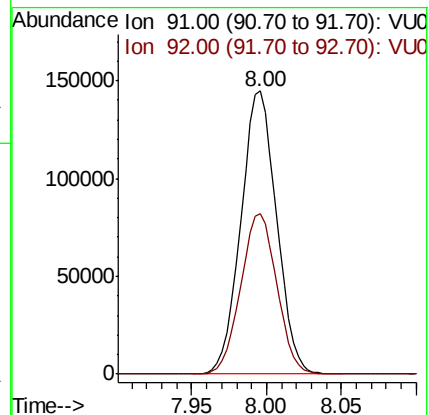
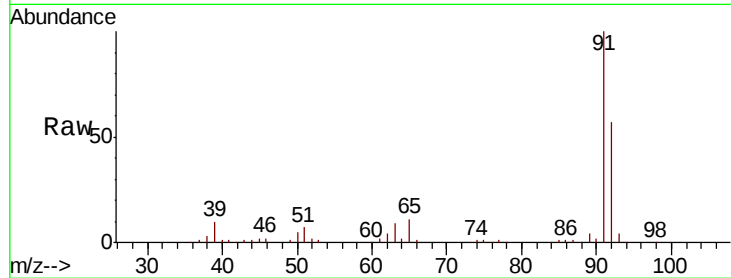
VSTD05057

Tot Ion: 91 Resp: 240657

Ion Ratio Lower Upper

91 100

92 56.9 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 51.672 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037567.D

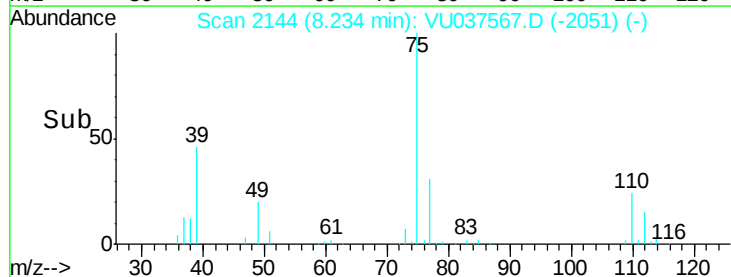
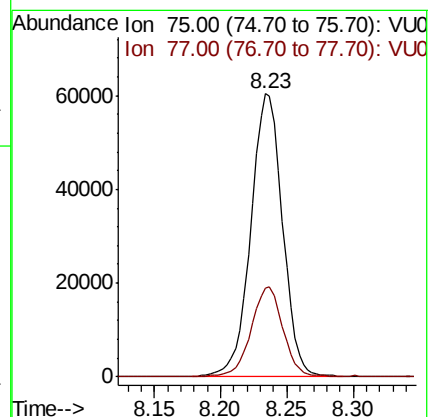
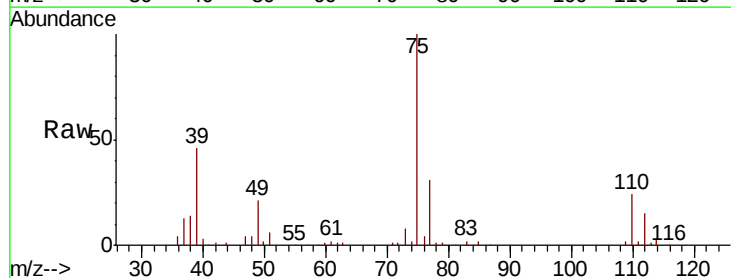
Acq: 03 Apr 2020 14:08

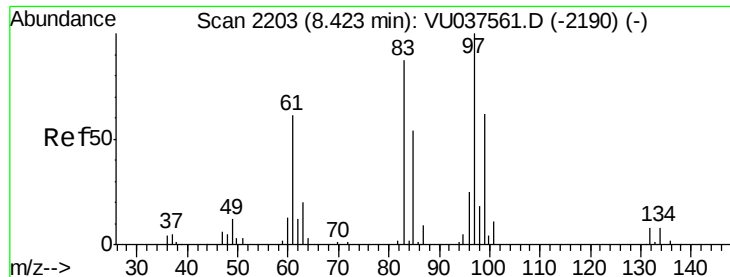
Tgt Ion: 75 Resp: 100452

Ion Ratio Lower Upper

75 100

77 31.4 23.4 43.6

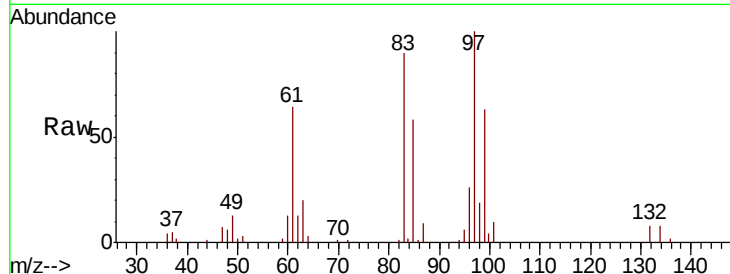




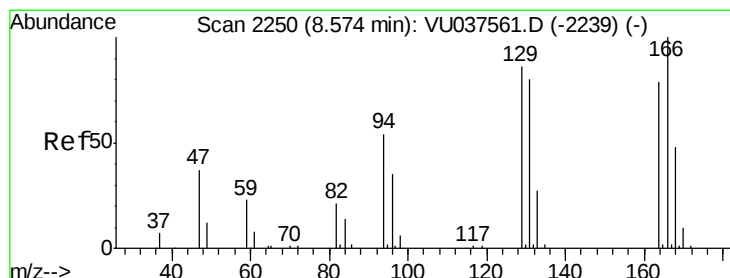
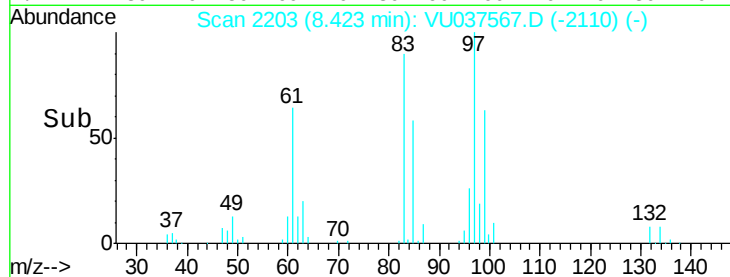
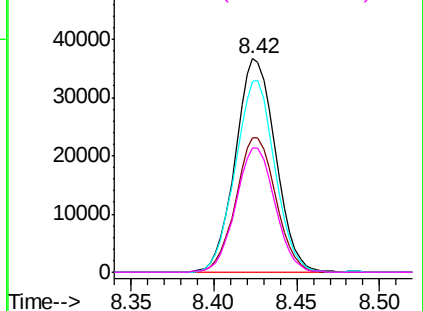
#45
 1,1,2-Trichloroethane
 Concen: 53.682 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tot Ion:	97	Resp:	61946
Ion	Ratio	Lower	Upper
97	100		
99	63.1	43.3	80.5
83	89.6	60.8	112.8
85	58.1	37.9	70.5

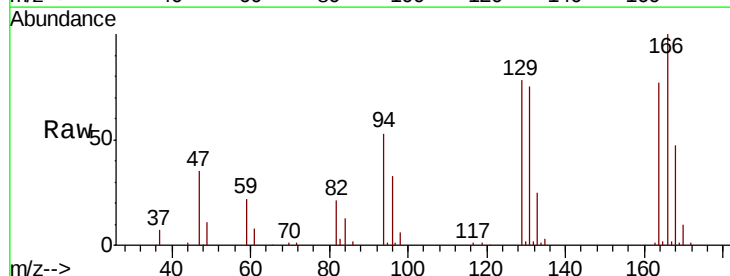


Abundance Ion 97.00 (96.70 to 97.70): VU037561.D (-2190) (-)

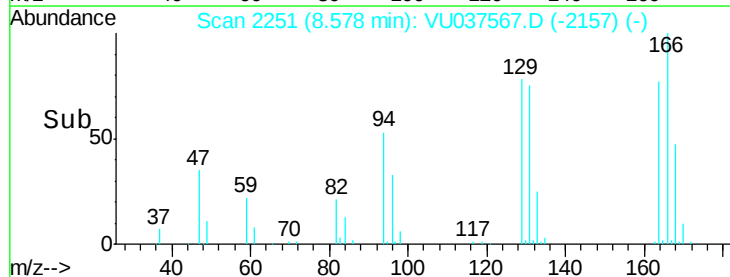
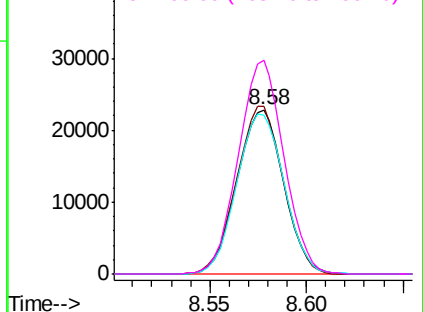


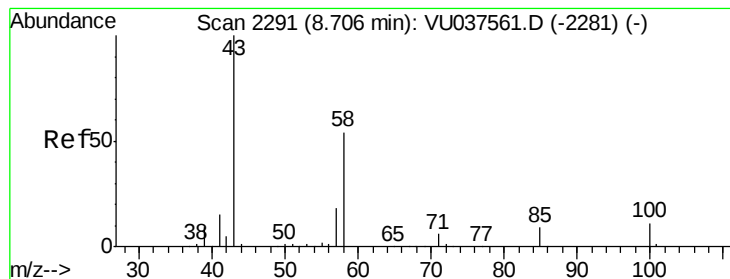
#46
 Tetrachloroethene
 Concen: 49.316 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

Tgt Ion:	164	Resp:	38407
Ion	Ratio	Lower	Upper
164	100		
129	99.9	76.5	142.1
131	94.9	71.7	133.1
166	127.2	88.8	165.0



Abundance Ion 164.00 (163.70 to 164.70): VU037561.D (-2239) (-)





#48

2-Hexanone

Concen: 102.622 ug/L

RT: 8.71 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tot Ion: 43 Resp: 163676

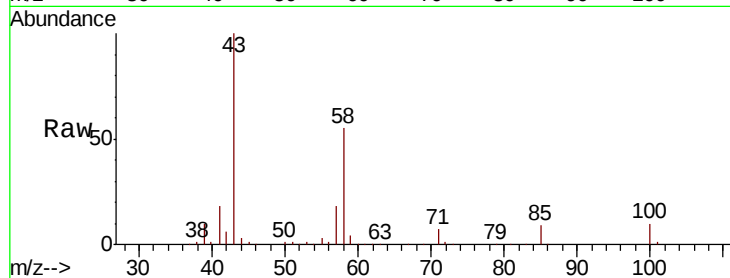
Ion Ratio Lower Upper

43 100

58 55.8 44.4 66.6

57 19.1 15.1 22.7

100 10.3 8.7 13.1

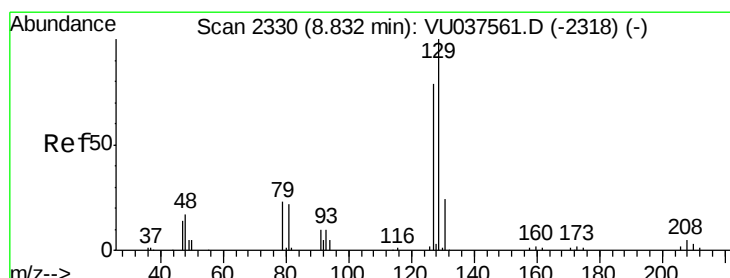
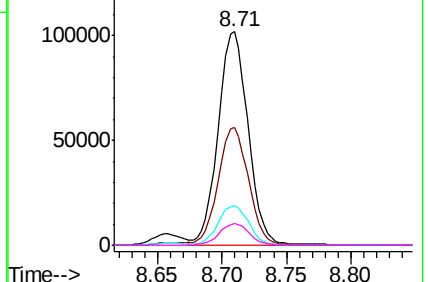
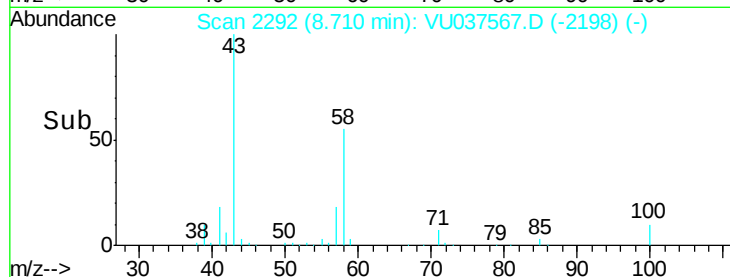


Abundance Ion 43.00 (42.70 to 43.70): VU037567.D (-2198) (-)

Ion 58.00 (57.70 to 58.70): VU037567.D (-2198) (-)

Ion 57.00 (56.70 to 57.70): VU037567.D (-2198) (-)

Ion 100.00 (99.70 to 100.70): VU037567.D (-2198) (-)



#49

Dibromochloromethane

Concen: 52.672 ug/L

RT: 8.83 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU037567.D

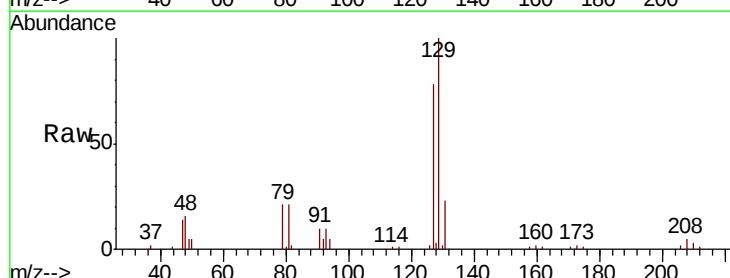
Acq: 03 Apr 2020 14:08

Tgt Ion: 129 Resp: 67793

Ion Ratio Lower Upper

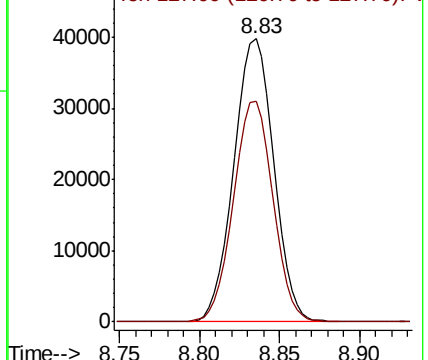
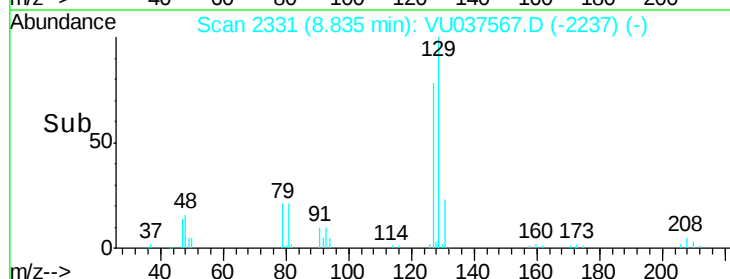
129 100

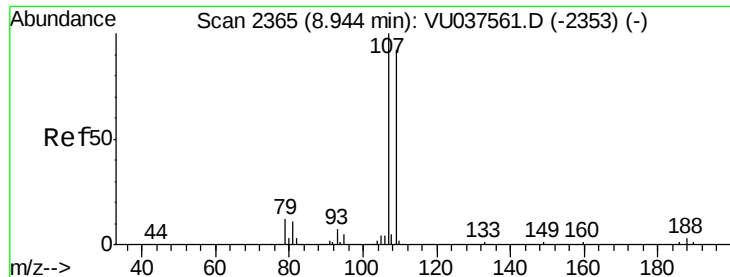
127 78.0 55.0 102.2



Abundance Ion 129.00 (128.70 to 129.70): VU037567.D (-2237) (-)

Ion 127.00 (126.70 to 127.70): VU037567.D (-2237) (-)

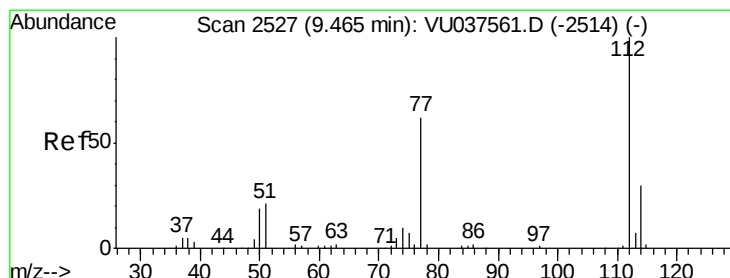
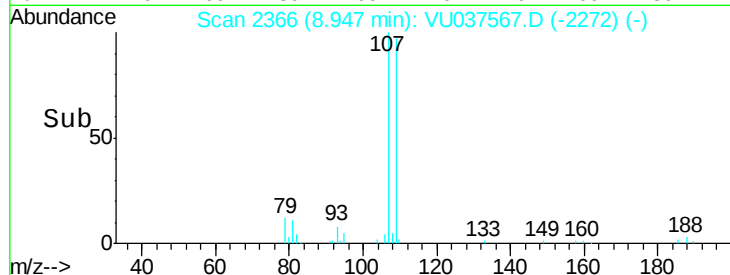
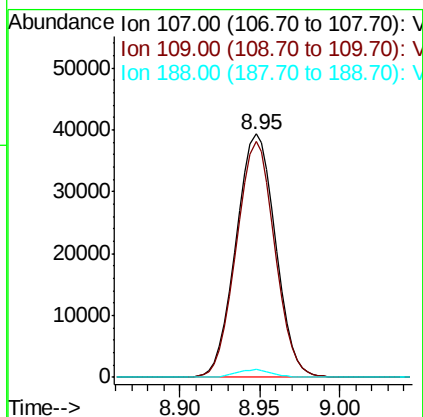
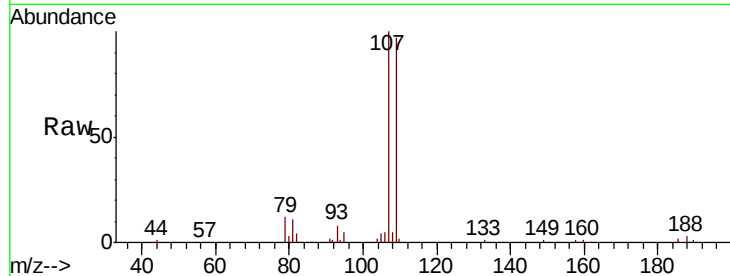




#50
 1,2-Dibromoethane
 Concen: 52.099 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

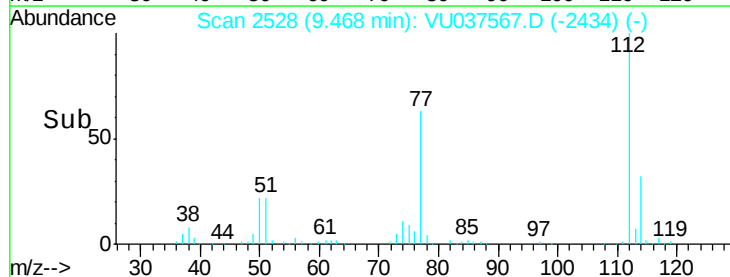
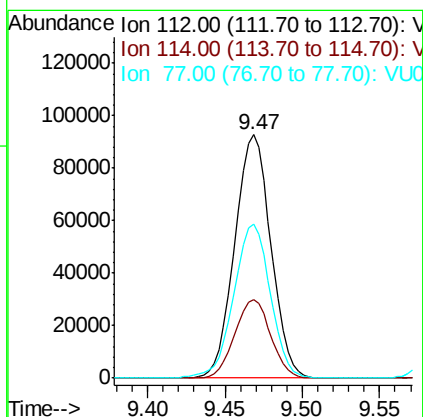
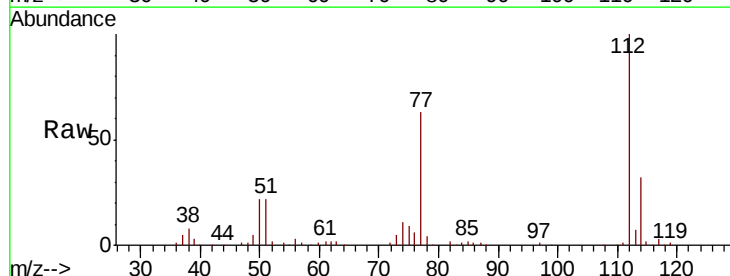
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

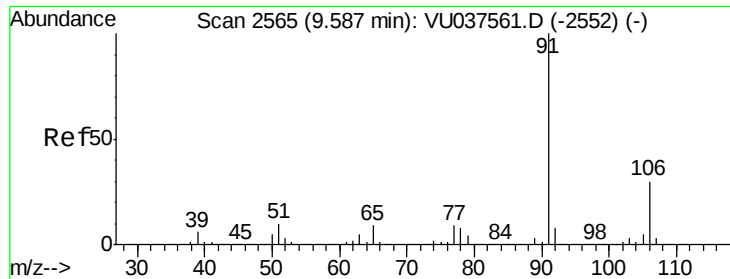
Tot Ion:107 Resp: 66117
 Ion Ratio Lower Upper
 107 100
 109 96.7 64.1 119.1
 188 3.1 2.3 3.5



#51
 Chlorobenzene
 Concen: 50.584 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

Tgt Ion:112 Resp: 150611
 Ion Ratio Lower Upper
 112 100
 114 32.3 21.0 39.0
 77 63.3 50.2 75.4





#52

Ethylbenzene

Concen: 50.106 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

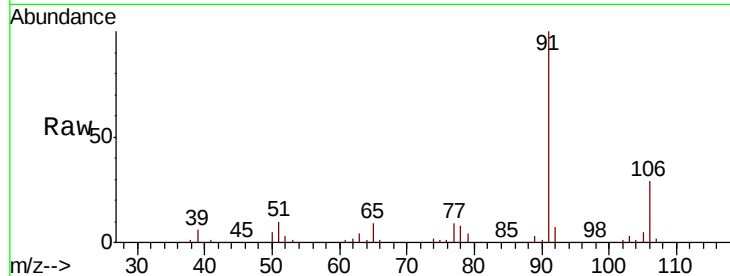
VSTD05057

Tot Ion: 91 Resp: 272000

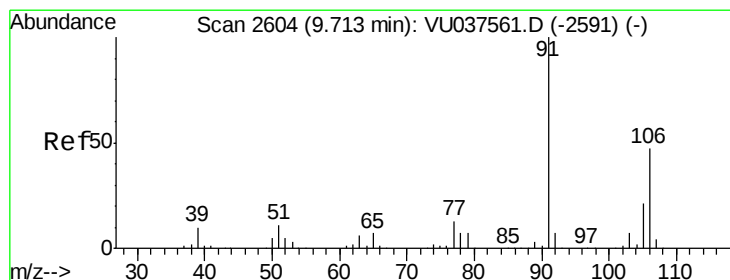
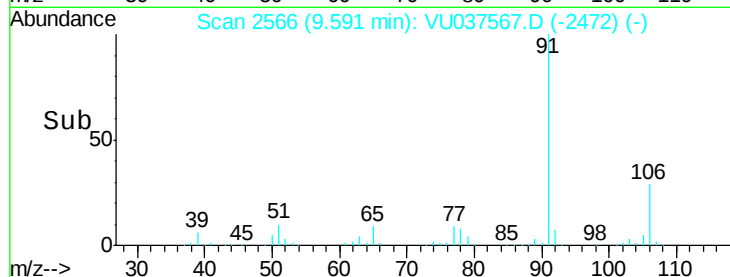
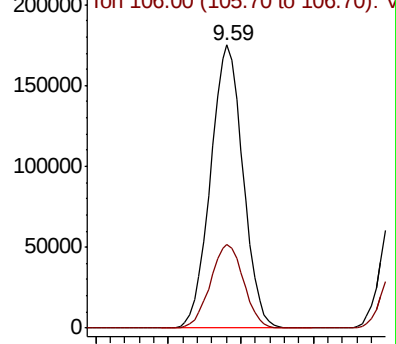
Ion Ratio Lower Upper

91 100

106 29.4 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VU037567.D (-2472) (-)



#53

m,p-Xylene

Concen: 49.558 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037567.D

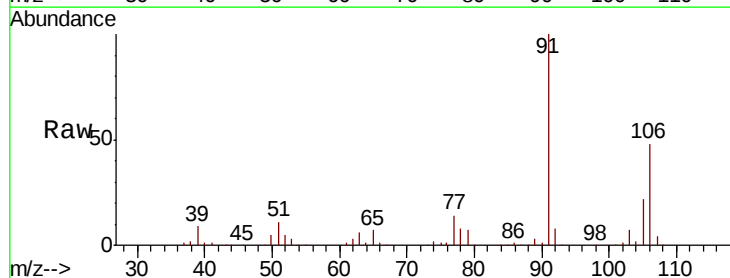
Acq: 03 Apr 2020 14:08

Tgt Ion: 106 Resp: 100349

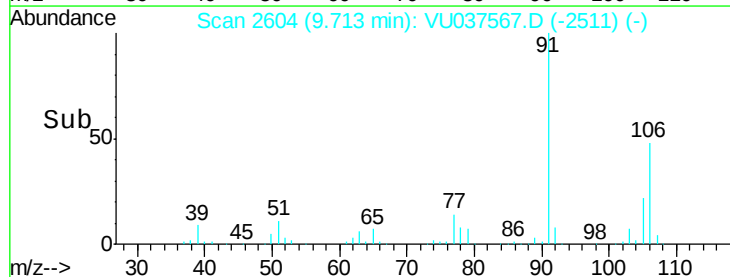
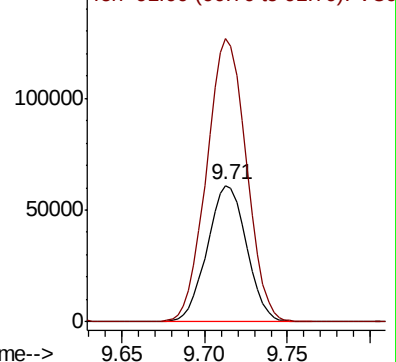
Ion Ratio Lower Upper

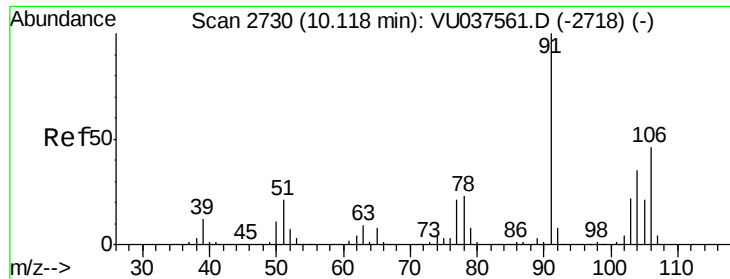
106 100

91 207.6 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU037567.D (-2511) (-)





#54

o-xylene

Concen: 50.824 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

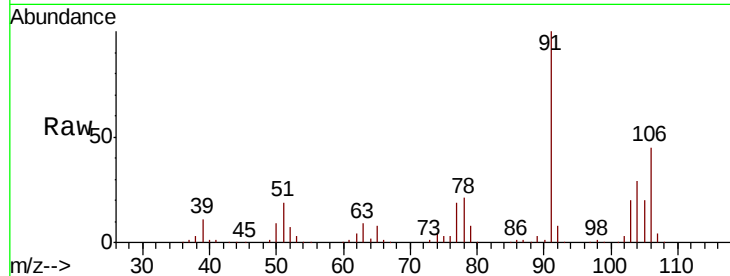
VSTD05057

Tot Ion:106 Resp: 99188

Ion Ratio Lower Upper

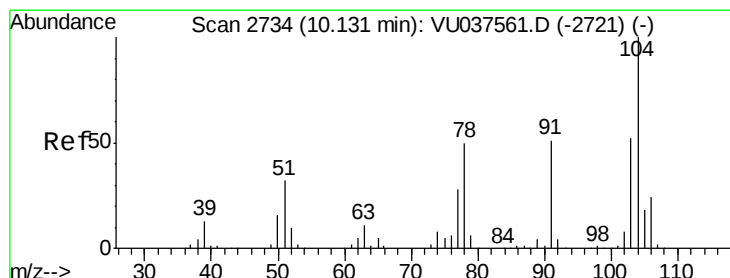
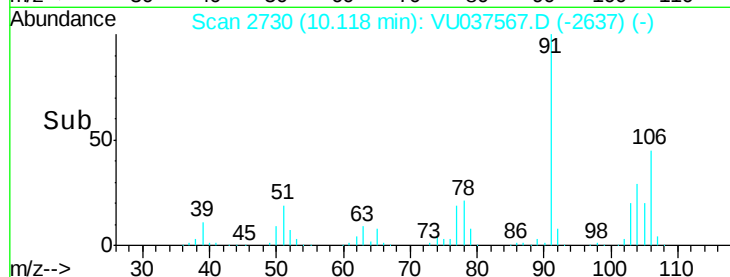
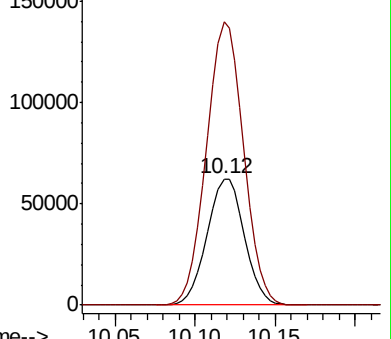
106 100

91 223.6 152.6 283.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 49.962 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU037567.D

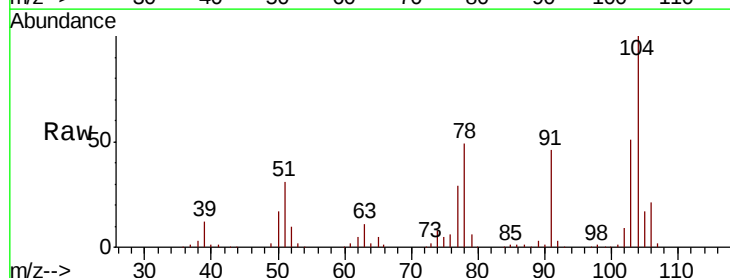
Acq: 03 Apr 2020 14:08

Tgt Ion:104 Resp: 172651

Ion Ratio Lower Upper

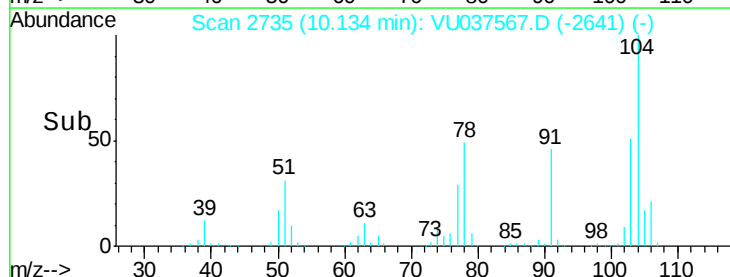
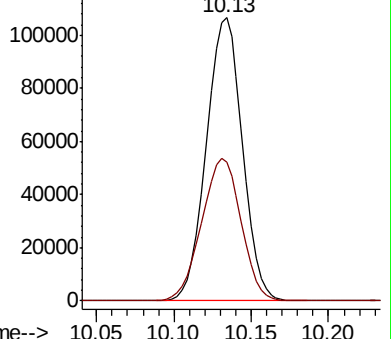
104 100

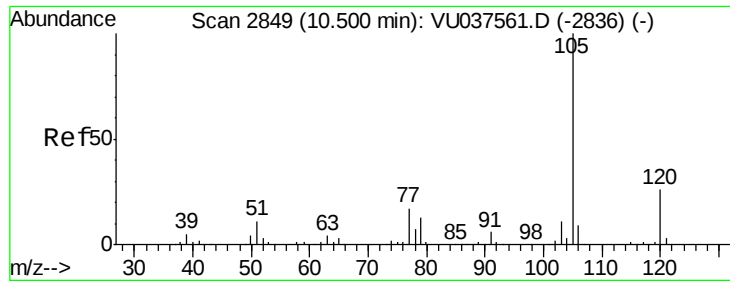
78 48.9 34.9 64.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.140 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

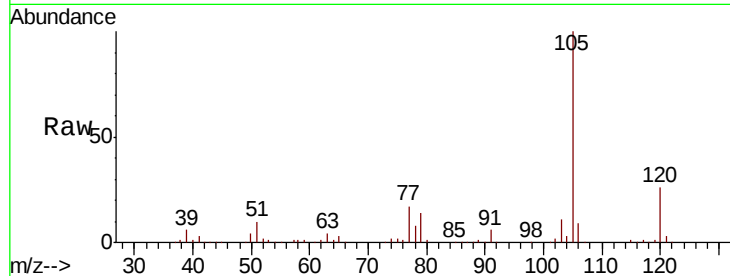
Tot Ion:105 Resp: 265311

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

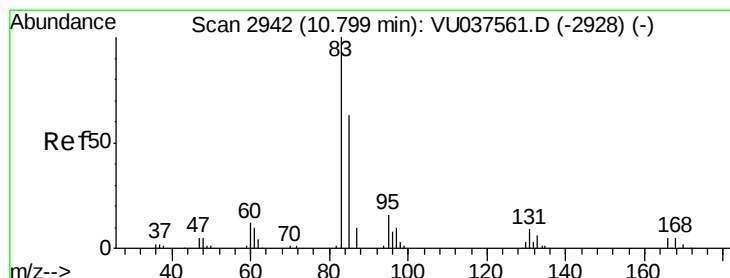
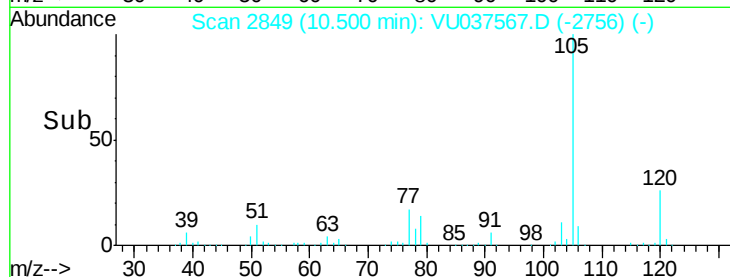
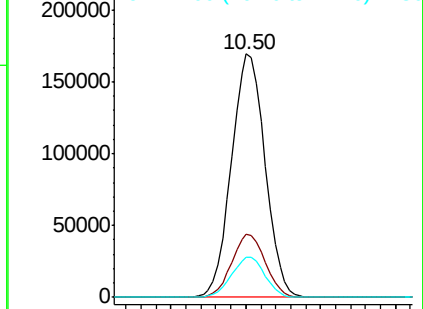
77 16.4 13.4 20.0



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: 52.424 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

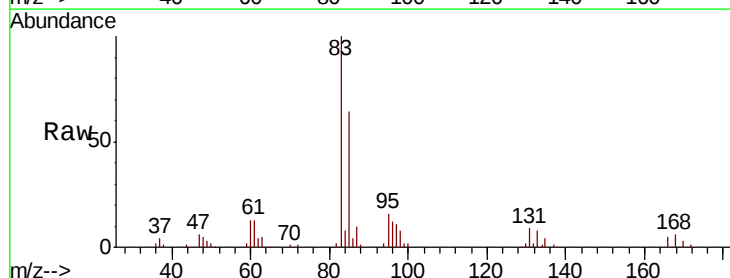
Tgt Ion: 83 Resp: 109056

Ion Ratio Lower Upper

83 100

85 64.1 44.2 82.2

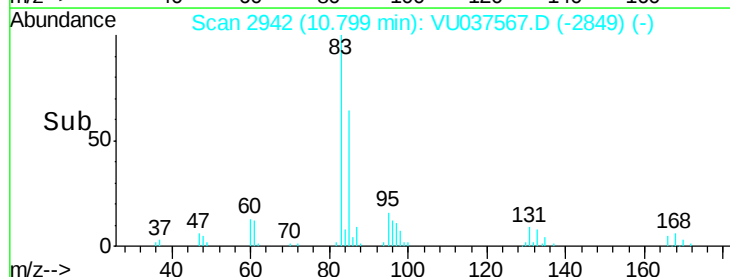
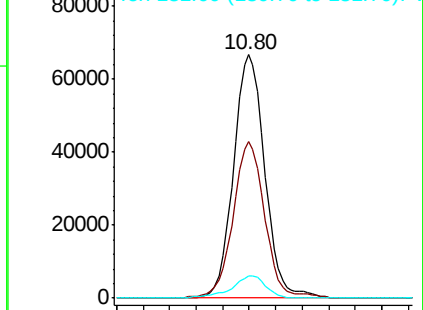
131 9.2 7.2 10.8

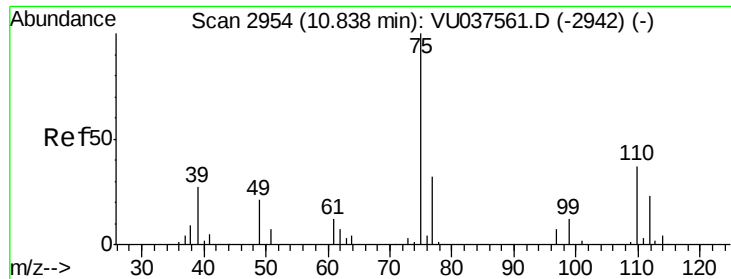


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

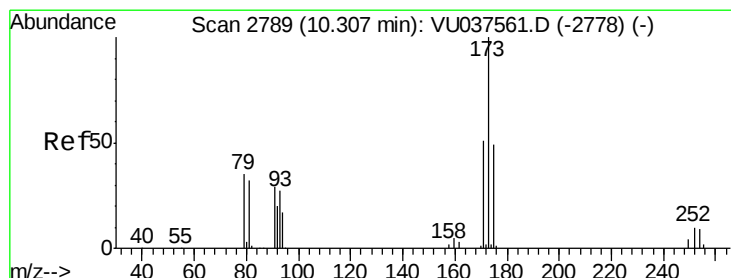
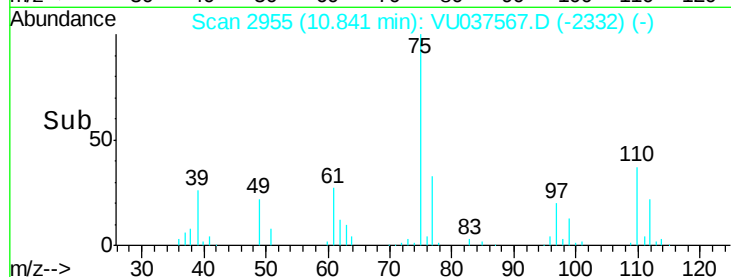
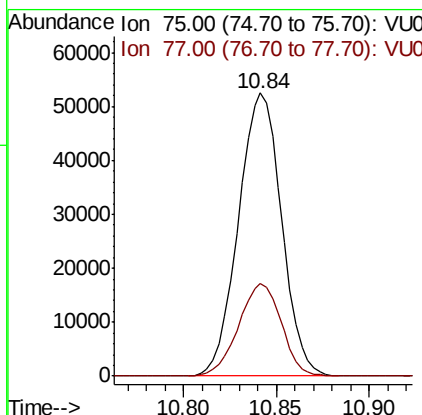
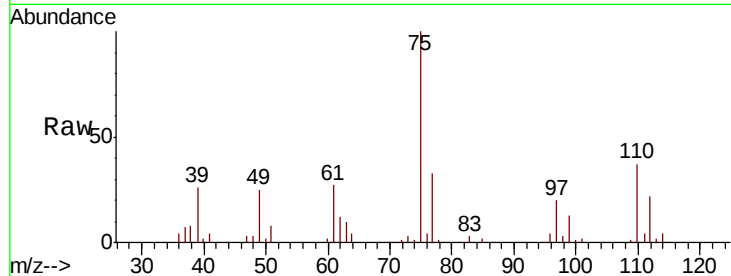




#59
 1,2,3-Trichloropropane
 Concen: 52.337 ug/L
 RT: 10.84 min Scan# 2955
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

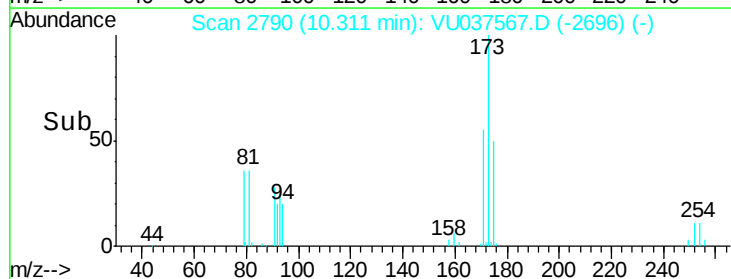
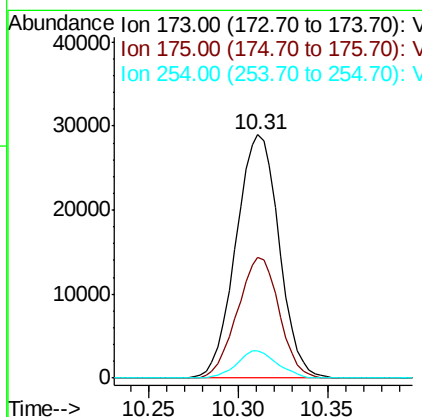
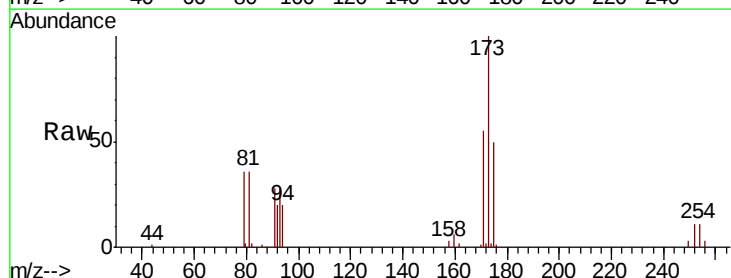
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

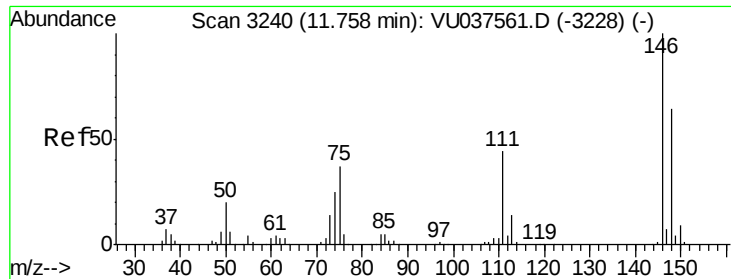
Tot Ion: 75 Resp: 85036
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.5 38.3



#61
 Bromoform
 Concen: 51.955 ug/L
 RT: 10.31 min Scan# 2790
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

Tgt Ion: 173 Resp: 48726
 Ion Ratio Lower Upper
 173 100
 175 48.2 38.6 58.0
 254 10.5 7.4 11.2





#62

1,3-Dichlorobenzene

Concen: 48.878 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

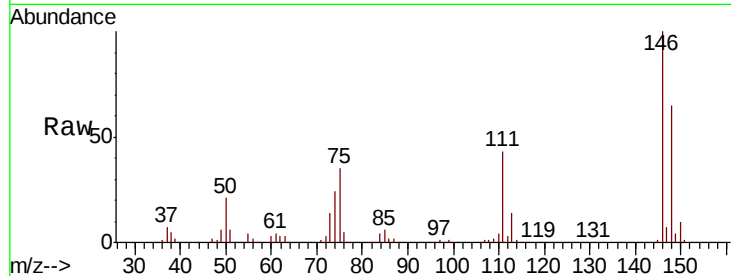
Tot Ion:146 Resp: 115784

Ion Ratio Lower Upper

146 100

111 43.0 31.1 57.7

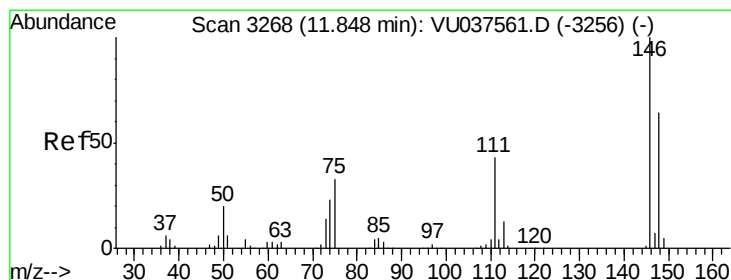
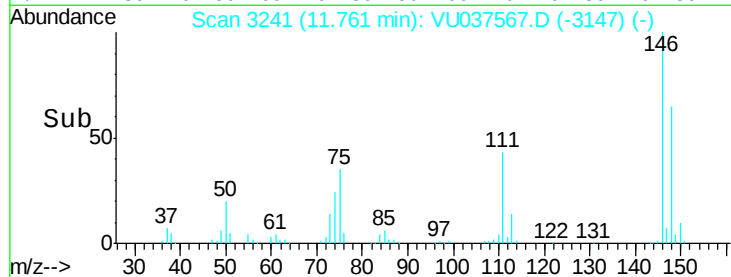
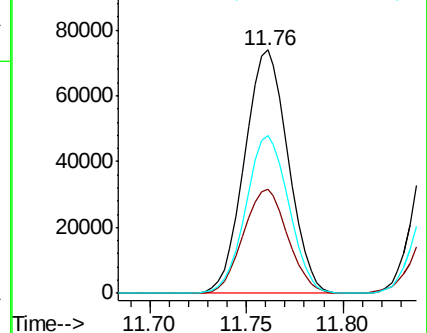
148 64.8 44.4 82.5



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: 49.430 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

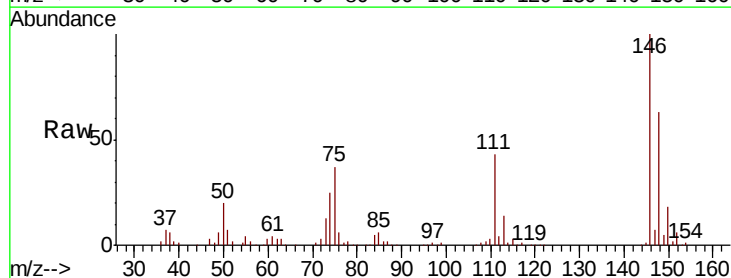
Tgt Ion:146 Resp: 118179

Ion Ratio Lower Upper

146 100

111 42.6 30.1 55.9

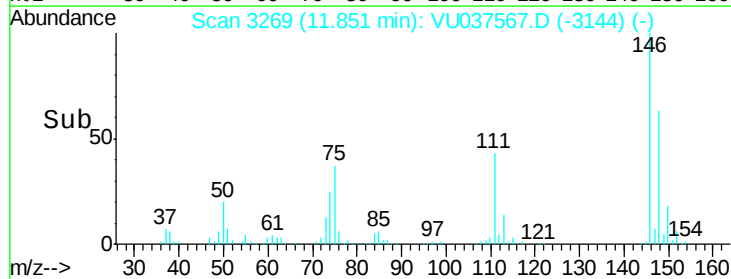
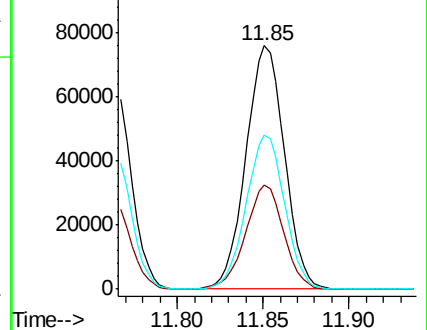
148 63.3 44.7 82.9

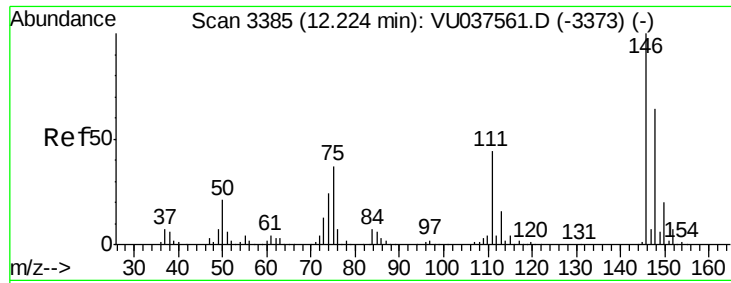


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 49.908 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

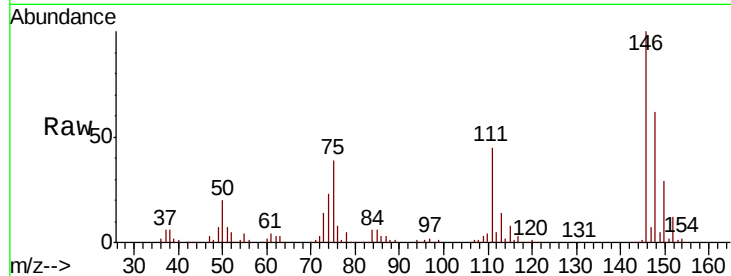
Tot Ion:146 Resp: 117060

Ion Ratio Lower Upper

146 100

111 45.4 35.6 53.4

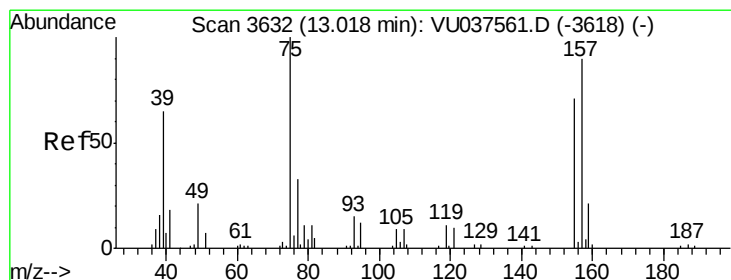
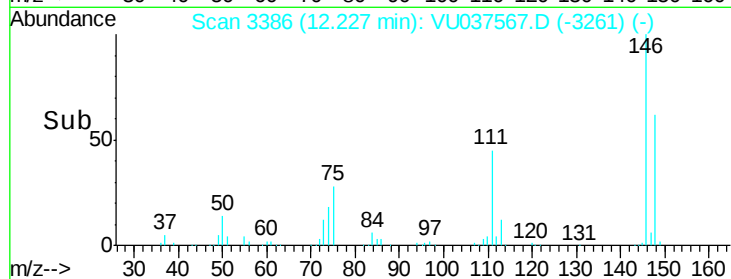
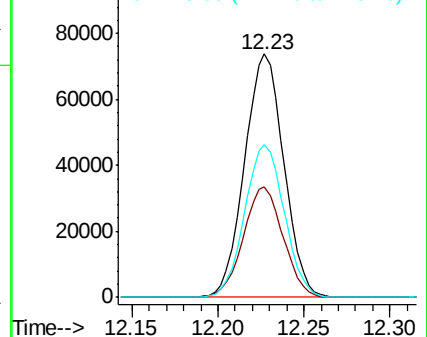
148 62.5 51.0 76.6



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: 48.321 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

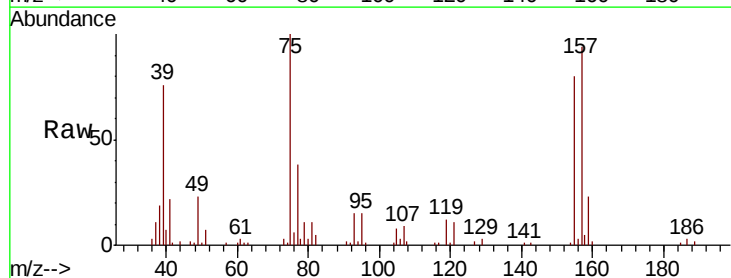
Tgt Ion: 75 Resp: 27186

Ion Ratio Lower Upper

75 100

155 79.6 56.6 85.0

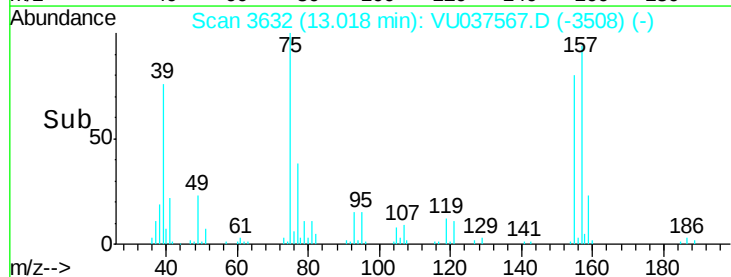
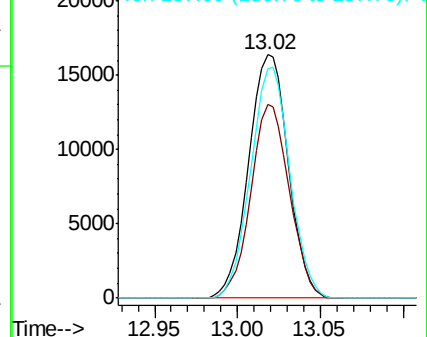
157 94.3 72.4 108.6

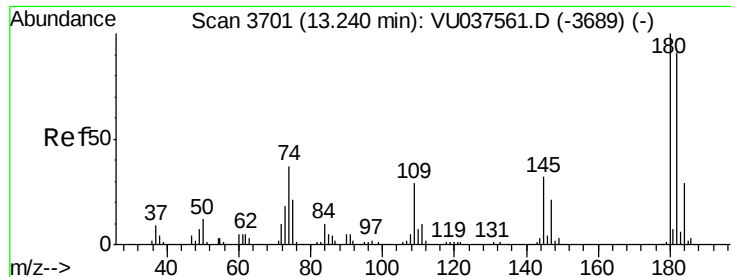


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

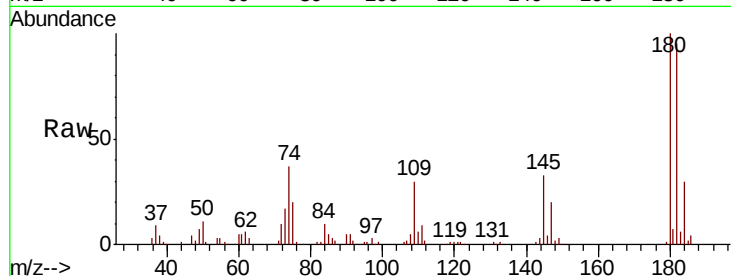




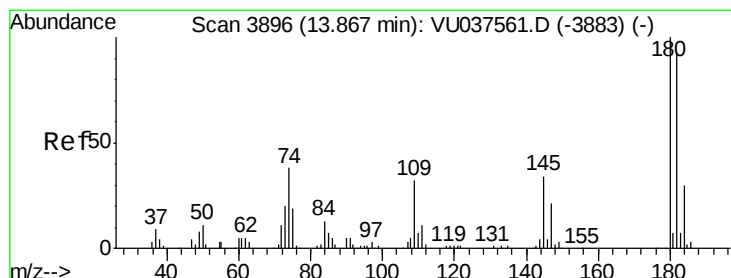
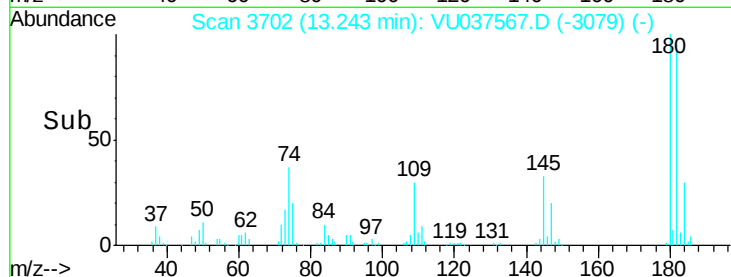
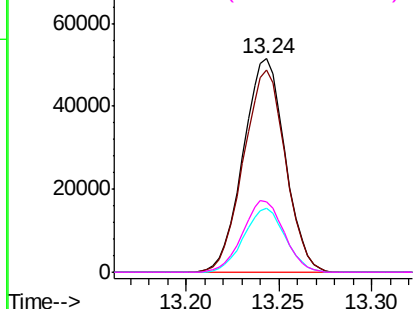
#67
 1,3,5-Trichlorobenzene
 Concen: 49.374 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tot Ion:180 Resp: 81181
 Ion Ratio Lower Upper
 180 100
 182 94.8 74.9 112.3
 184 29.6 23.6 35.4
 145 33.1 25.7 38.5

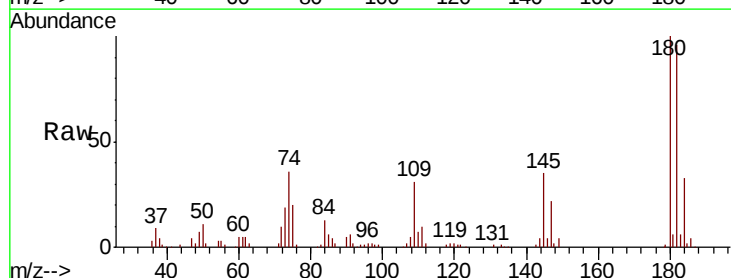


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

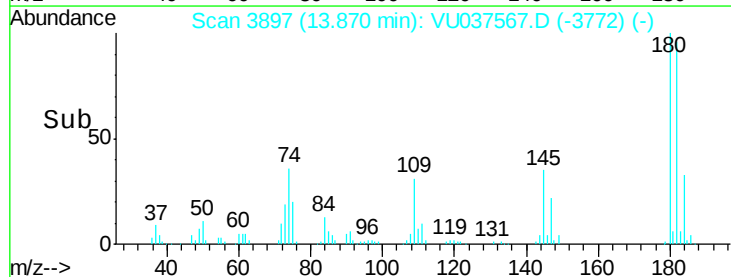
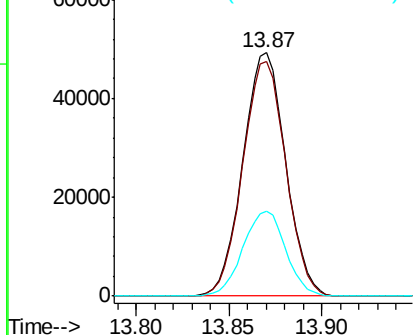


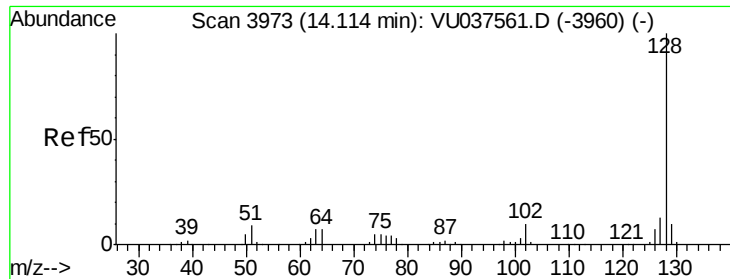
#68
 1,2,4-trichlorobenzene
 Concen: 50.636 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.00 min
 Lab File: VU037567.D
 Acq: 03 Apr 2020 14:08

Tgt Ion:180 Resp: 79370
 Ion Ratio Lower Upper
 180 100
 182 96.8 74.4 111.6
 145 34.9 26.9 40.3



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: 48.215 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

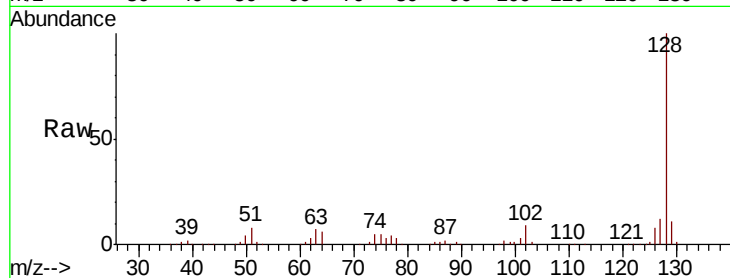
Tot Ion:128 Resp: 320179

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

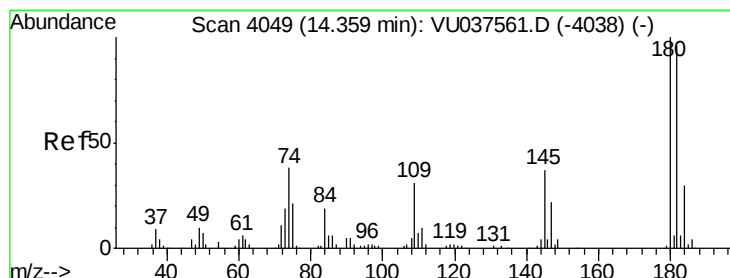
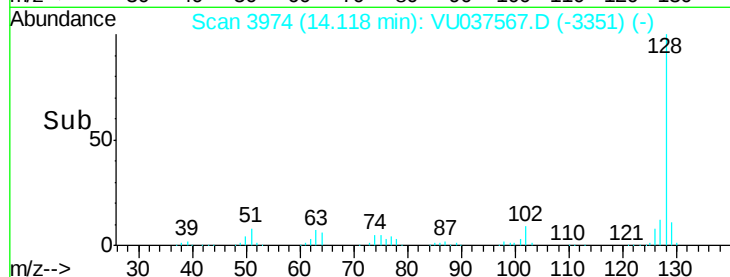
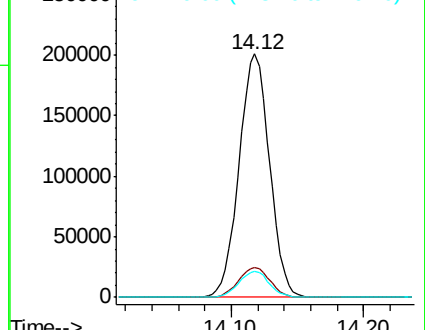
129 10.8 8.5 12.7



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: 50.677 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU037567.D

Acq: 03 Apr 2020 14:08

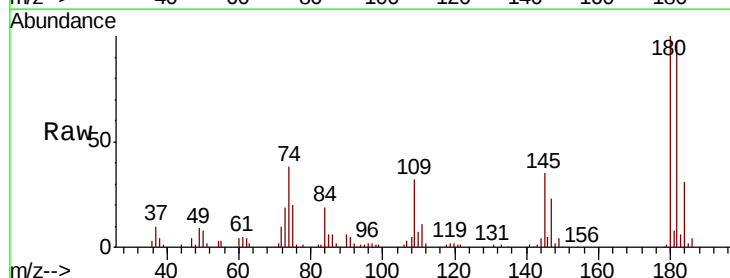
Tgt Ion:180 Resp: 80245

Ion Ratio Lower Upper

180 100

182 95.0 76.0 114.0

145 34.6 29.0 43.6



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

