

Data File : VV012022.D
Acq On : 24 Jul 2019 20:44
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Quant Time: Jul 25 04:26:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 25 04:12:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	124853	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	119749	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	64294	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	29981	4.62	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.40%
7) Chloroethane-d5	1.59	69	25410	4.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.60%
11) 1,1-Dichloroethene-d2	2.13	63	65730	5.09	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.80%
20) 2-Butanone-d5	3.96	46	112521	59.32	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.64%
24) Chloroform-d	4.40	84	88004	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.40%
26) 1,2-Dichloroethane-d4	5.08	65	50825	5.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	117.00%
32) Benzene-d6	5.10	84	179900	5.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.80%
36) 1,2-Dichloropropane-d6	6.12	67	51301	5.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.40%
41) Toluene-d8	7.36	98	168899	5.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.00%
43) trans-1,3-Dichloropropene-	7.66	79	21515	5.55	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	111.00%
46) 2-Hexanone-d5	8.14	63	93711	60.16	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	120.32%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	38865	5.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	68897	5.56	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	68408	5.301	ug/L 97
3) Chloromethane	1.25	50	38373	5.124	ug/L 95
5) Vinyl chloride	1.32	62	39605	5.165	ug/L 98
6) Bromomethane	1.54	94	24833	5.507	ug/L 97
8) Chloroethane	1.60	64	22627	4.988	ug/L 98
9) Trichlorofluoromethane	1.77	101	76444	5.409	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	31947	5.029	ug/L 97
12) 1,1-Dichloroethene	2.14	96	31147	5.481	ug/L 89
13) Acetone	2.23	43	50489	49.380	ug/L 99
14) Carbon disulfide	2.32	76	80964	4.999	ug/L 97
15) Methyl Acetate	2.47	43	10175	4.558	ug/L 93
16) Methylene chloride	2.54	84	30765	4.828	ug/L 96
17) Methyl tert-butyl Ether	2.81	73	102092	5.265	ug/L 98
18) trans-1,2-Dichloroethene	2.79	96	45366	5.127	ug/L 98
19) 1,1-Dichloroethane	3.23	63	84575	5.411	ug/L 96
21) 2-Butanone	4.05	43	105118	53.592	ug/L 98
22) cis-1,2-Dichloroethene	3.96	96	50530	5.313	ug/L 100

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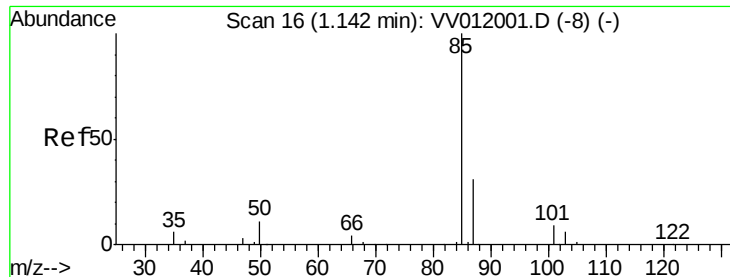
Quant Time: Jul 25 04:26:08 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	21837	5.585	ug/L	93
25) Chloroform	4.43	83	104512	5.537	ug/L	96
27) 1,2-Dichloroethane	5.18	62	59264	5.647	ug/L	99
29) 1,1,1-Trichloroethane	4.66	97	85352	5.569	ug/L	99
30) Cyclohexane	4.72	56	71531	4.940	ug/L	99
31) Carbon tetrachloride	4.87	117	75384	5.463	ug/L	100
33) Benzene	5.15	78	188697	5.357	ug/L	100
34) Trichloroethene	5.96	95	53290	5.448	ug/L	96
35) Methylcyclohexane	6.17	83	77830	5.112	ug/L	99
37) 1,2-Dichloropropane	6.22	63	45477	5.370	ug/L	100
38) Bromodichloromethane	6.56	83	61256	5.414	ug/L	95
39) cis-1,3-Dichloropropene	7.07	75	66795	5.322	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	255749	54.051	ug/L	99
42) Toluene	7.43	91	210657	5.571	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	53572	5.366	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	31982	5.468	ug/L	99
47) Tetrachloroethene	8.02	164	45369	5.375	ug/L	98
48) 2-Hexanone	8.19	43	182428	54.961	ug/L	100
49) Dibromochloromethane	8.29	129	40776	5.694	ug/L	98
50) 1,2-Dibromoethane	8.40	107	30235	5.475	ug/L	97
51) Chlorobenzene	8.92	112	134837	5.446	ug/L	99
52) Ethylbenzene	9.05	91	236308	5.476	ug/L	100
53) m,p-xylene	9.18	106	91927	5.596	ug/L	99
54) o-xylene	9.59	106	85728	5.504	ug/L	99
55) Styrene	9.60	104	147878	5.634	ug/L	99
56) Isopropylbenzene	9.97	105	239579	5.508	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	35270	5.564	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	26837	5.433	ug/L	99
61) Bromoform	9.78	173	21589	5.470	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	114662	5.452	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	116308	5.372	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	105420	5.445	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	5874	5.222	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	94221	5.357	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	76534	5.358	ug/L	99
69) Naphthalene	13.55	128	111258	5.166	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	71094	5.486	ug/L	100

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

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#2

Dichlorodifluoromethane

Concen: 5.301 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

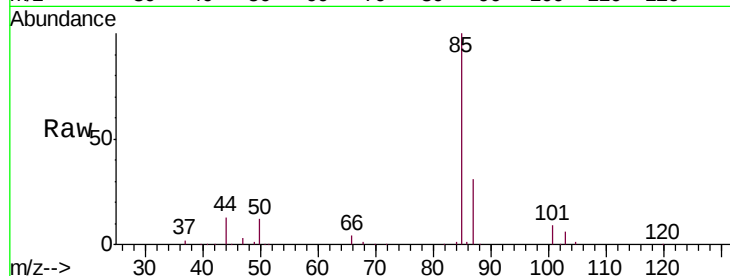
VSTD00548

Tgt Ion: 85 Resp: 68408

Ion Ratio Lower Upper

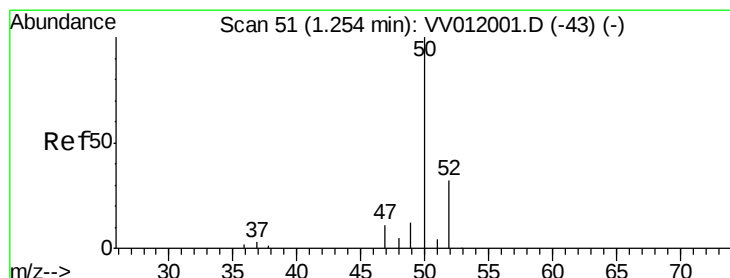
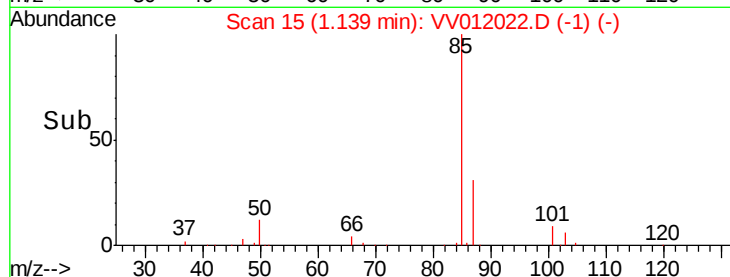
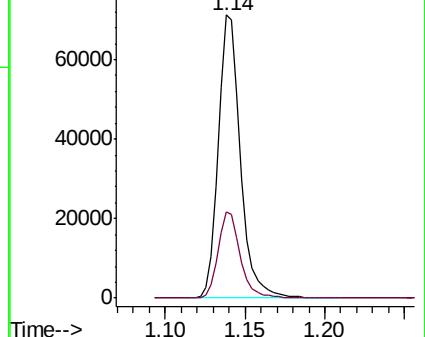
85 100

87 30.4 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV012001.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012001.D (-8) (-)



#3

Chloromethane

Concen: 5.124 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012022.D

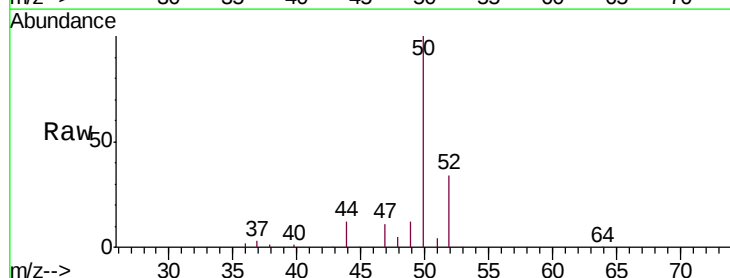
Acq: 24 Jul 2019 20:44

Tgt Ion: 50 Resp: 38373

Ion Ratio Lower Upper

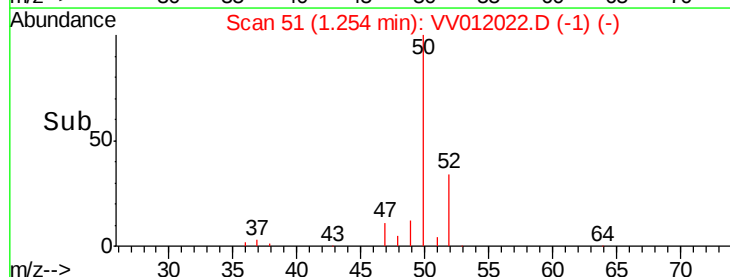
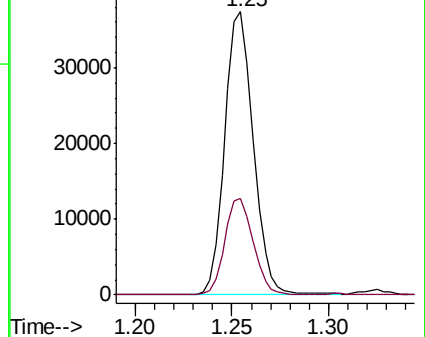
50 100

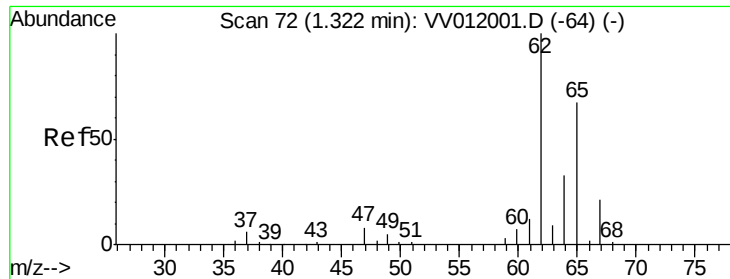
52 33.9 21.6 40.2



Abundance Ion 50.05 (49.75 to 50.75): VV012001.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV012001.D (-43) (-)





#5

Vinyl chloride

Concen: 5.165 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

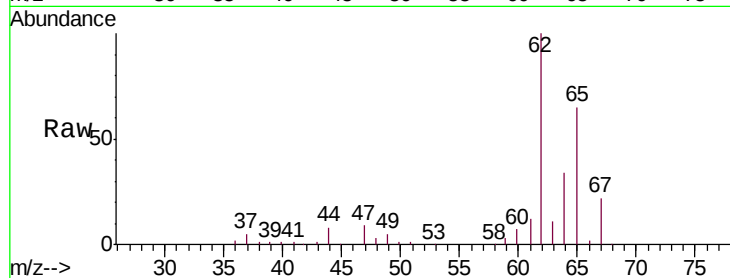
VSTD00548

Tgt Ion: 62 Resp: 39605

Ion Ratio Lower Upper

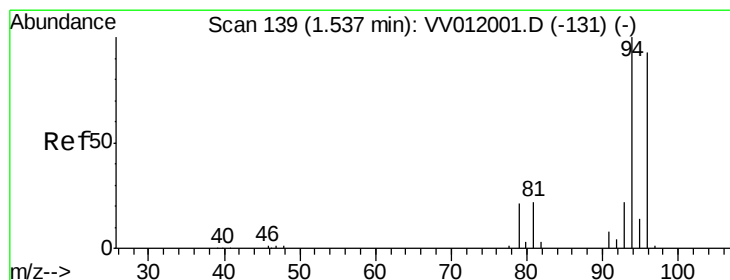
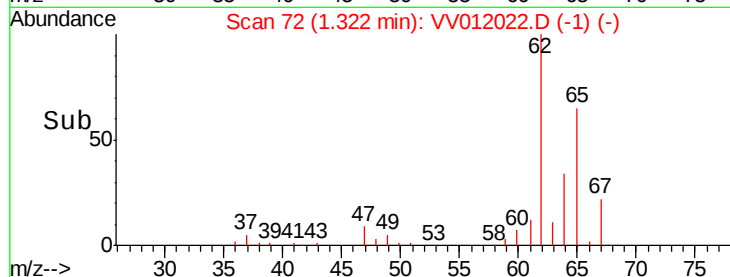
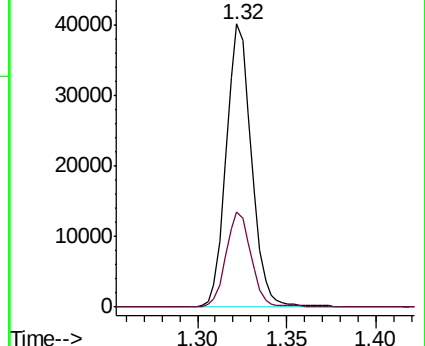
62 100

64 33.6 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 5.507 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012022.D

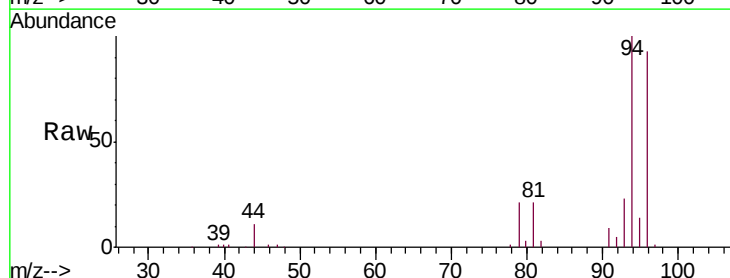
Acq: 24 Jul 2019 20:44

Tgt Ion: 94 Resp: 24833

Ion Ratio Lower Upper

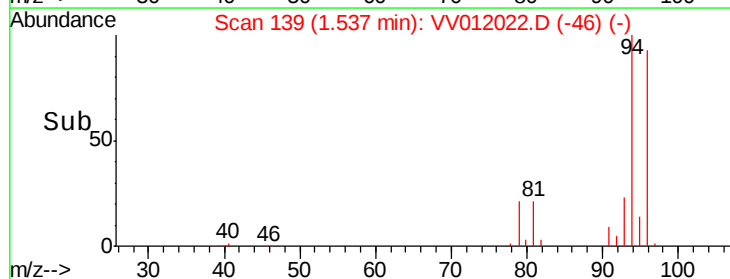
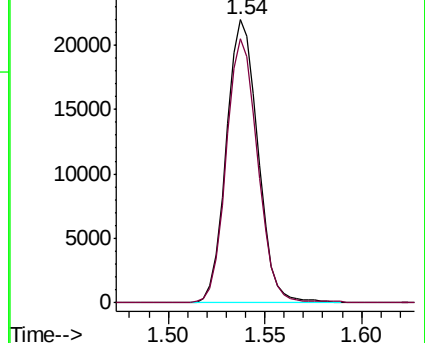
94 100

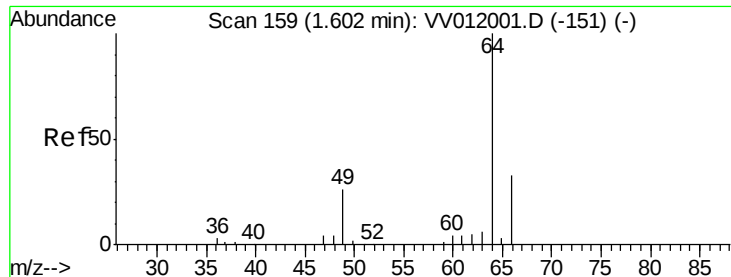
96 93.3 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 4.988 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

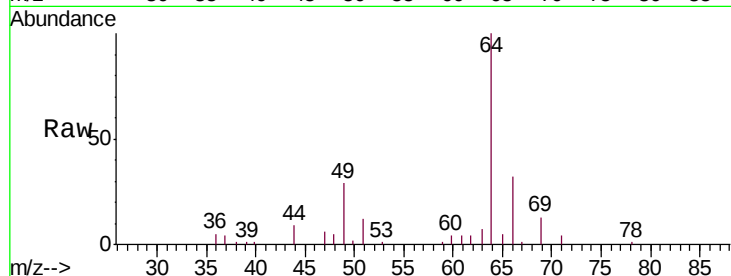
VSTD00548

Tgt Ion: 64 Resp: 22627

Ion Ratio Lower Upper

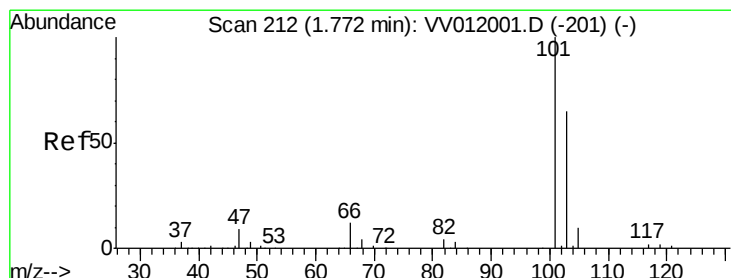
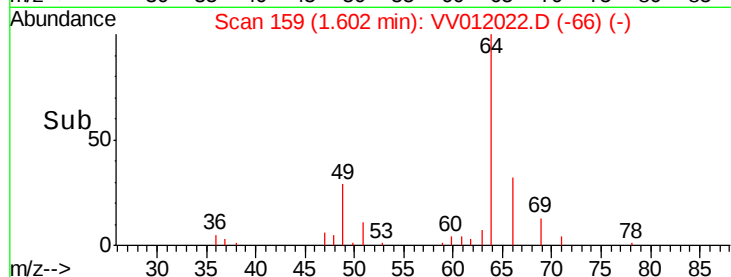
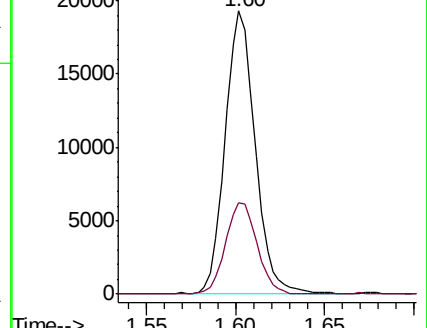
64 100

66 32.2 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VV012001.D (-151) (-)

Ion 66.05 (65.75 to 66.75): VV012001.D (-151) (-)



#9

Trichlorofluoromethane

Concen: 5.409 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV012022.D

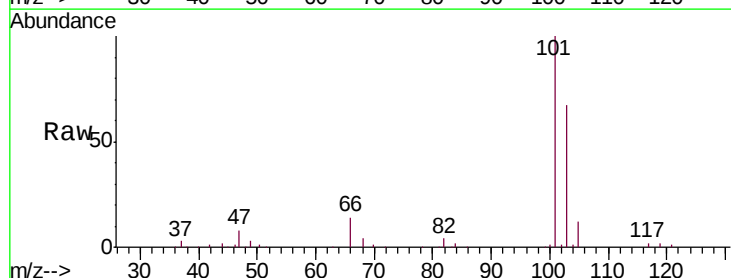
Acq: 24 Jul 2019 20:44

Tgt Ion: 101 Resp: 76444

Ion Ratio Lower Upper

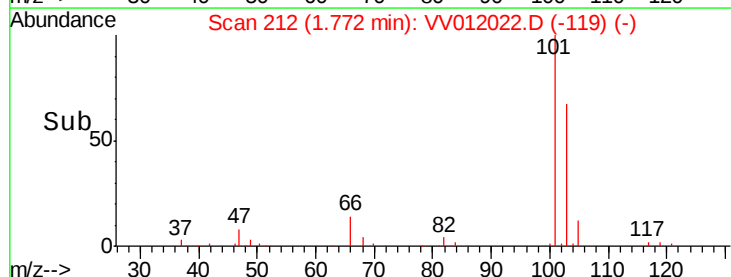
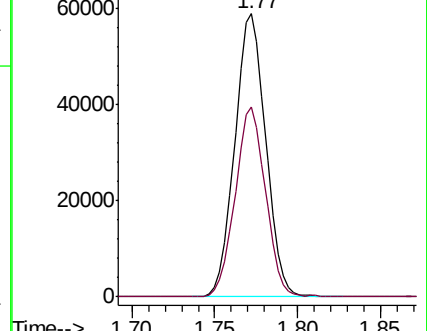
101 100

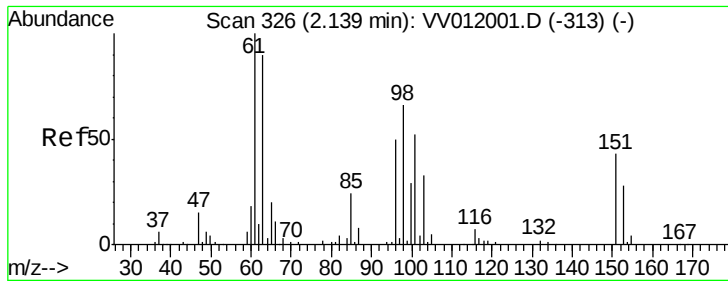
103 65.8 50.4 75.6



Abundance Ion 101.00 (100.70 to 101.70): VV012001.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV012001.D (-201) (-)





#10

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

Concen: 5.029 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

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ClientSampleId :

VSTD00548

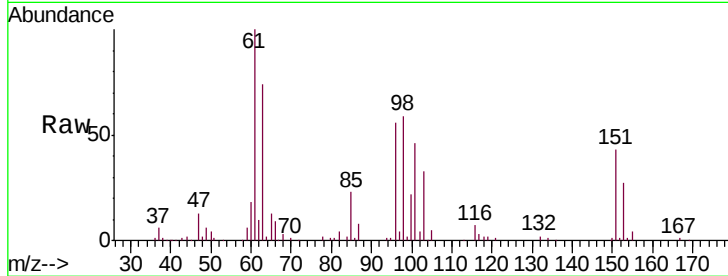
Tgt Ion:101 Resp: 31947

Ion Ratio Lower Upper

101 100

85 45.1 37.0 55.6

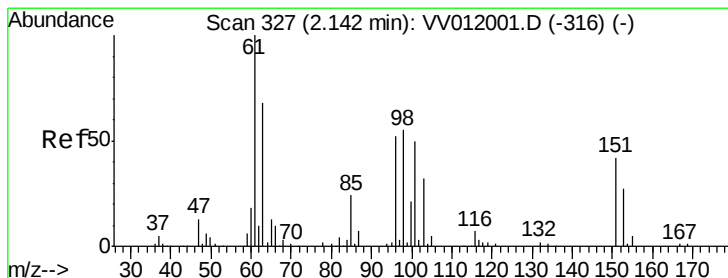
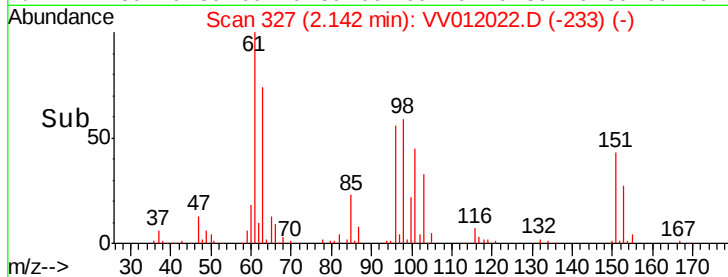
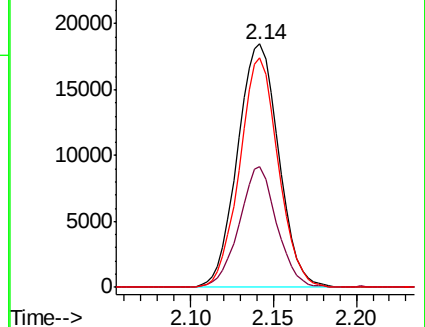
151 88.4 68.3 102.5



Abundance Ion 101.00 (100.70 to 101.70): VV012022.D (-233) (-)

Ion 85.00 (84.70 to 85.70): VV012022.D (-233) (-)

Ion 151.00 (150.70 to 151.70): VV012022.D (-233) (-)



#12

1,1-Dichloroethene

Concen: 5.481 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

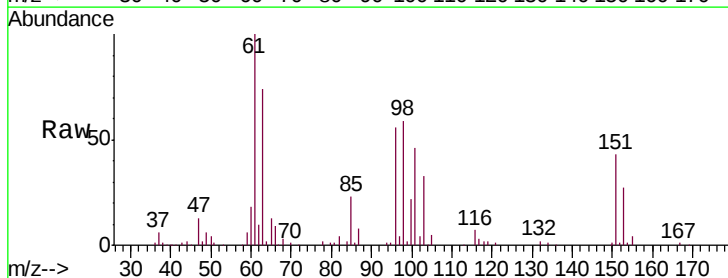
Tgt Ion: 96 Resp: 31147

Ion Ratio Lower Upper

96 100

61 177.0 132.7 246.5

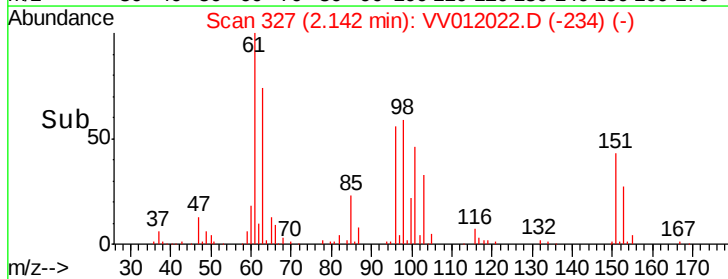
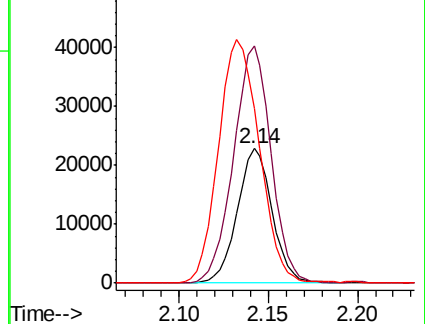
63 130.4 104.0 193.1

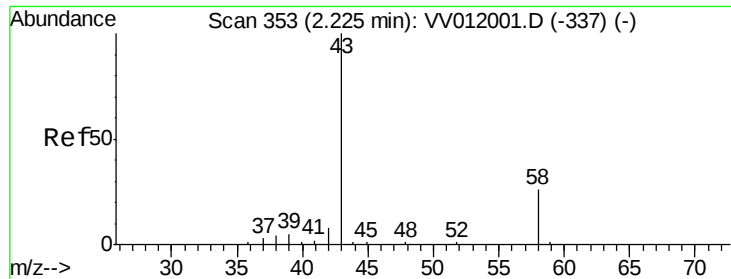


Abundance Ion 96.00 (95.70 to 96.70): VV012022.D (-234) (-)

Ion 61.05 (60.75 to 61.75): VV012022.D (-234) (-)

Ion 63.00 (62.70 to 63.70): VV012022.D (-234) (-)





#13

Acetone

Concen: 49.380 ug/L

RT: 2.23 min Scan# 353

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

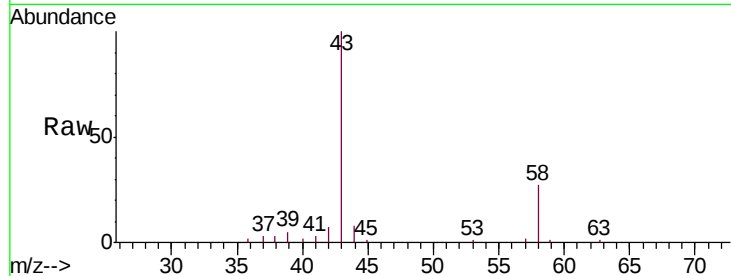
VSTD00548

Tgt Ion: 43 Resp: 50489

Ion Ratio Lower Upper

43 100

58 25.6 0.0 51.8



Abundance Ion 43.05 (42.75 to 43.75): VV012001.D (-337) (-)

Ion 58.05 (57.75 to 58.75): VV012001.D (-337) (-)

2.23

15000

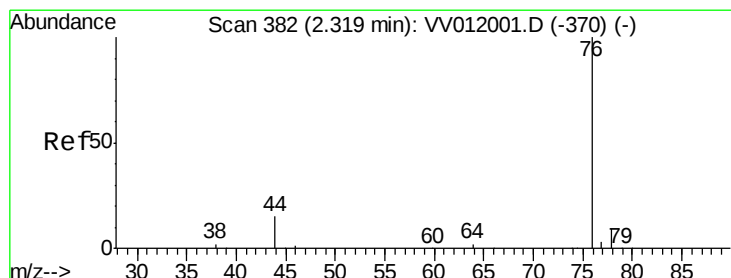
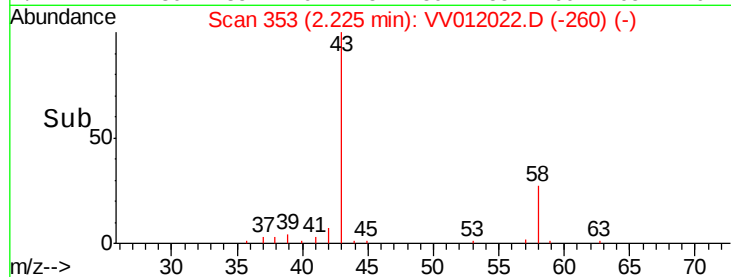
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5000

0

Time-->

2.10 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 4.999 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012022.D

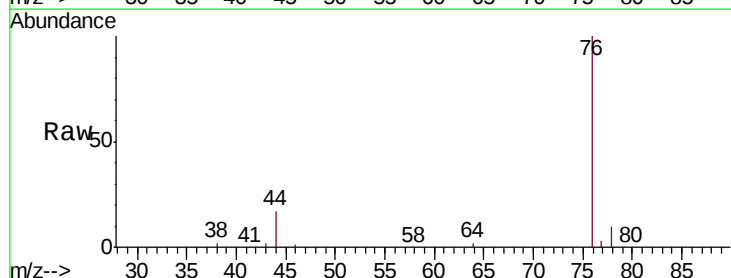
Acq: 24 Jul 2019 20:44

Tgt Ion: 76 Resp: 80964

Ion Ratio Lower Upper

76 100

78 10.0 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV012001.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV012001.D (-370) (-)

2.32

60000

50000

40000

30000

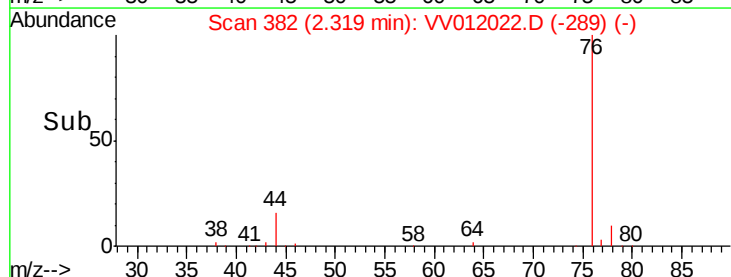
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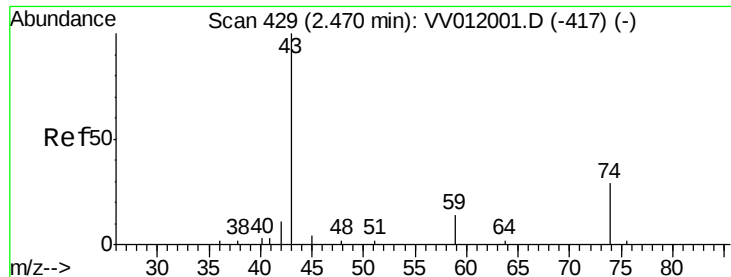
10000

0

Time-->

2.25 2.30 2.35

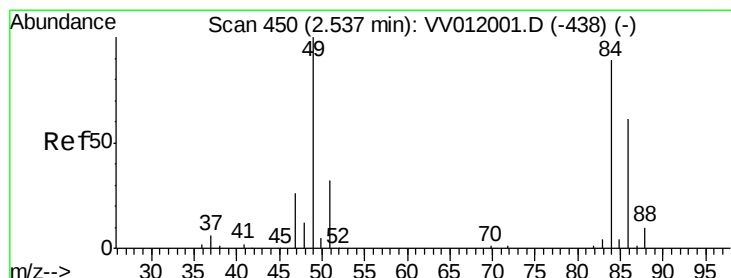
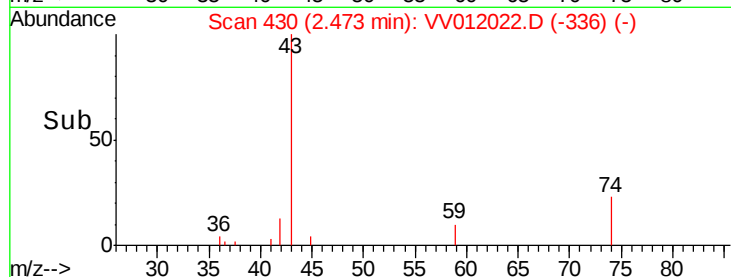
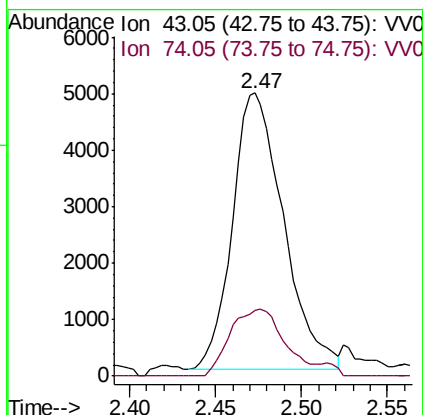
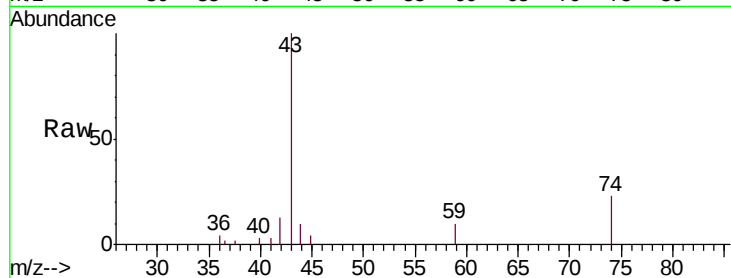




#15
Methyl Acetate
Concen: 4.558 ug/L
RT: 2.47 min Scan# 430
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

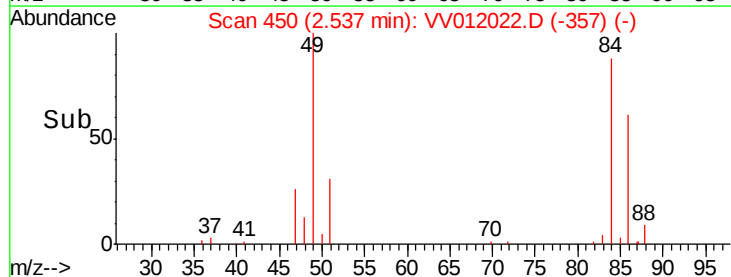
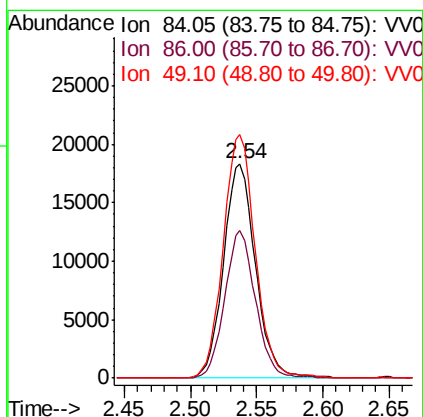
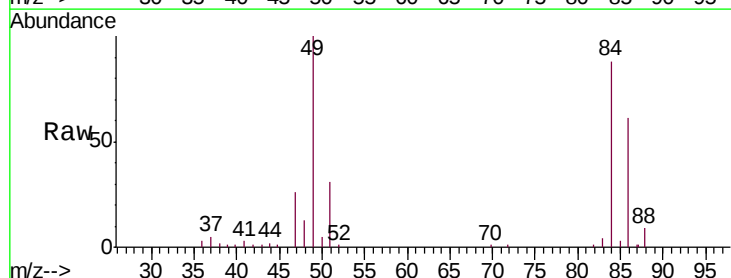
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

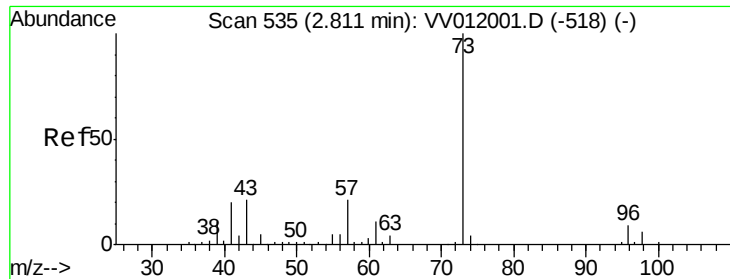
Tgt Ion: 43 Resp: 10175
Ion Ratio Lower Upper
43 100
74 25.8 23.4 35.2



#16
Methylene chloride
Concen: 4.828 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

Tgt Ion: 84 Resp: 30765
Ion Ratio Lower Upper
84 100
86 69.0 47.6 88.4
49 113.7 84.3 156.5

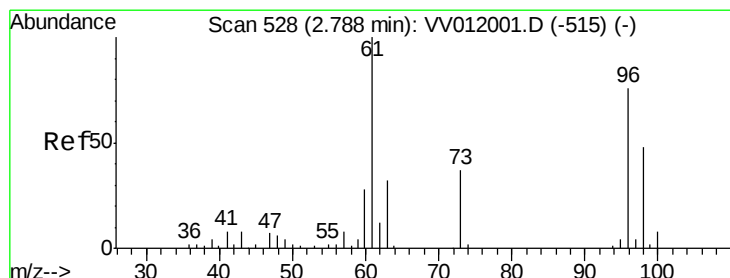
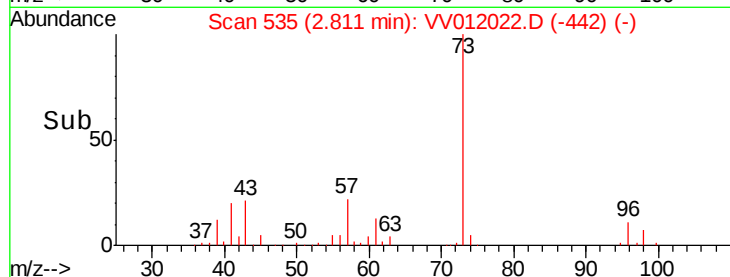
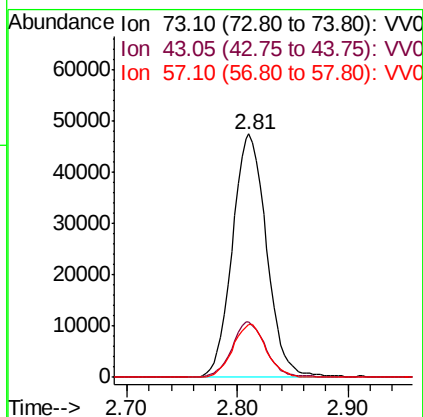
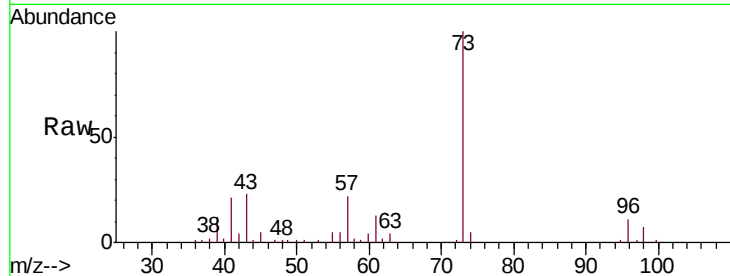




#17
Methyl tert-butyl Ether
Concen: 5.265 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

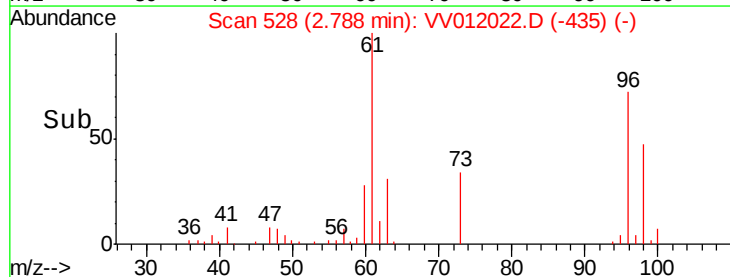
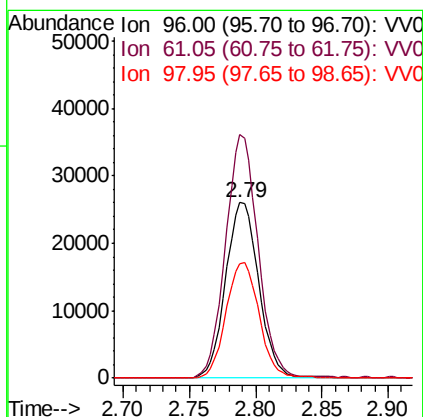
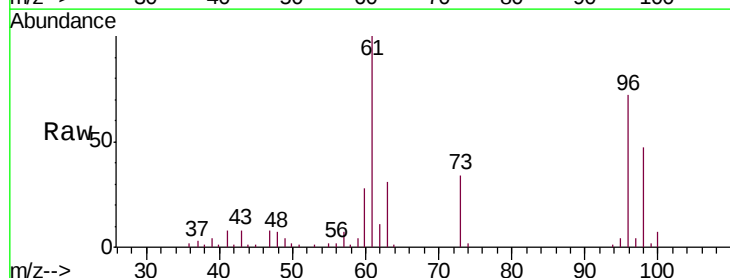
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

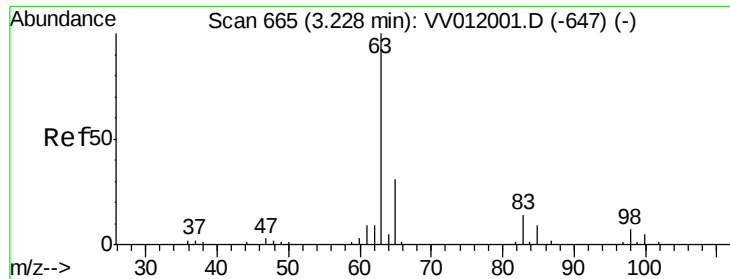
Tgt Ion: 73 Resp: 102092
Ion Ratio Lower Upper
73 100
43 22.7 17.0 25.4
57 21.6 17.0 25.6



#18
trans-1,2-Dichloroethene
Concen: 5.127 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

Tgt Ion: 96 Resp: 45366
Ion Ratio Lower Upper
96 100
61 138.9 95.4 177.2
98 65.5 44.4 82.5

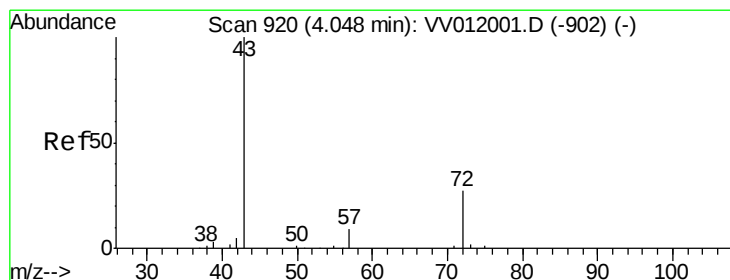
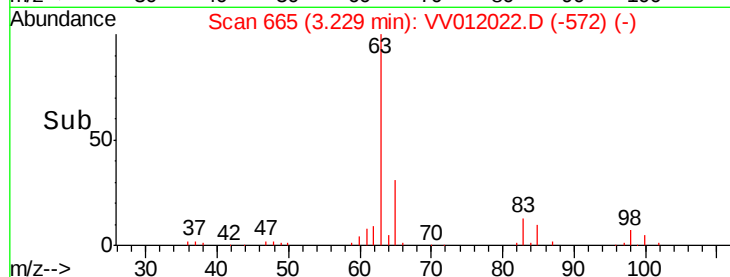
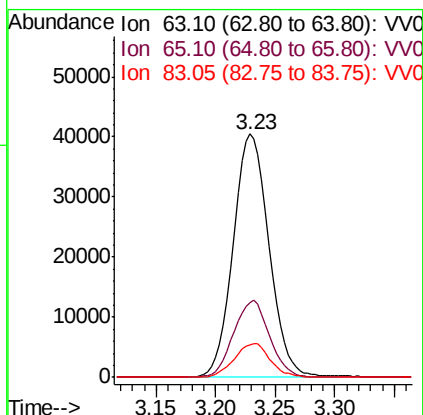
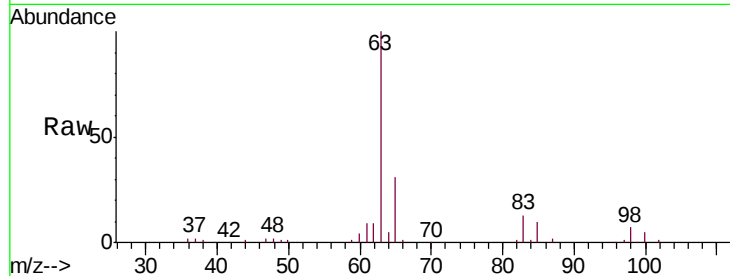




#19
 1,1-Dichloroethane
 Concen: 5.411 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

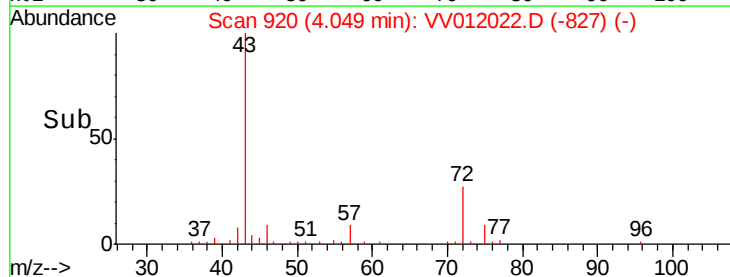
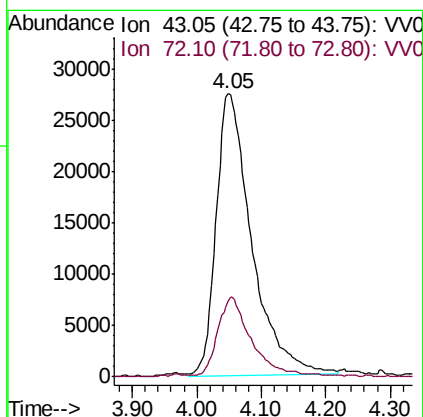
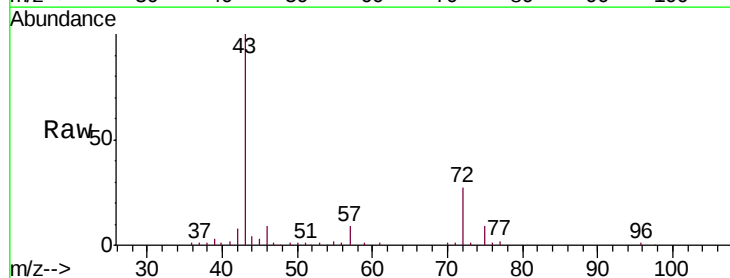
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

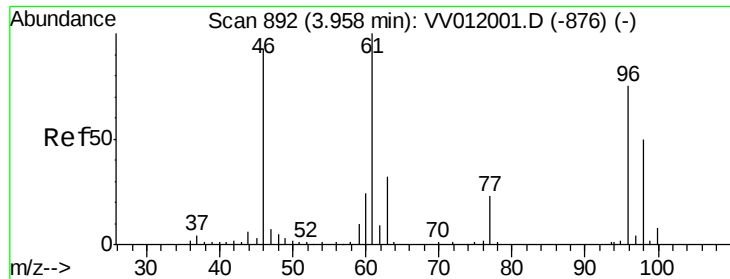
Tgt Ion: 63 Resp: 84575
 Ion Ratio Lower Upper
 63 100
 65 30.9 23.5 43.7
 83 13.3 9.7 18.1



#21
 2-Butanone
 Concen: 53.592 ug/L
 RT: 4.05 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Tgt Ion: 43 Resp: 105118
 Ion Ratio Lower Upper
 43 100
 72 25.9 13.6 40.8

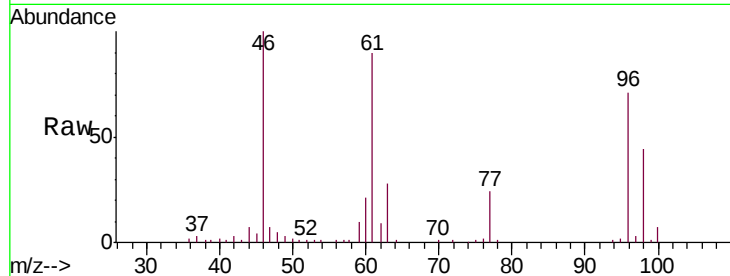




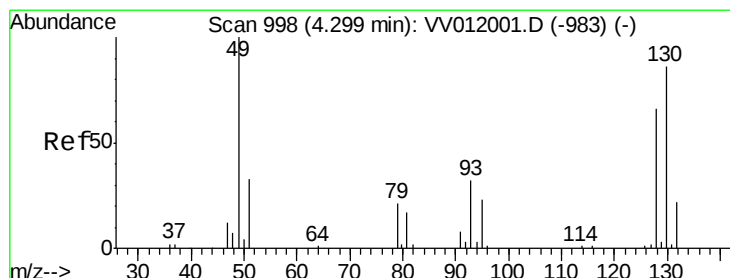
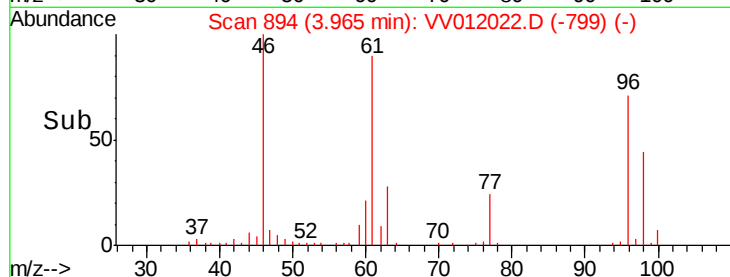
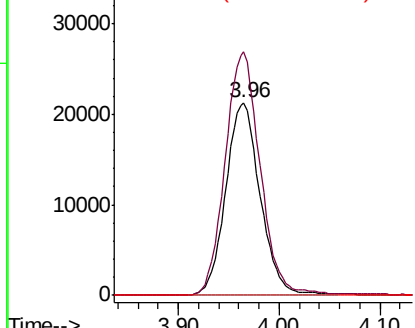
#22
 cis-1,2-Dichloroethene
 Concen: 5.313 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. 0.01 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tgt Ion: 96 Resp: 50530
 Ion Ratio Lower Upper
 96 100
 61 126.5 89.0 165.2
 68 0.0 0.0 0.0

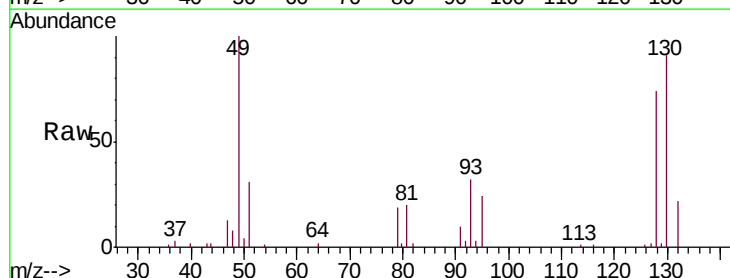


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0

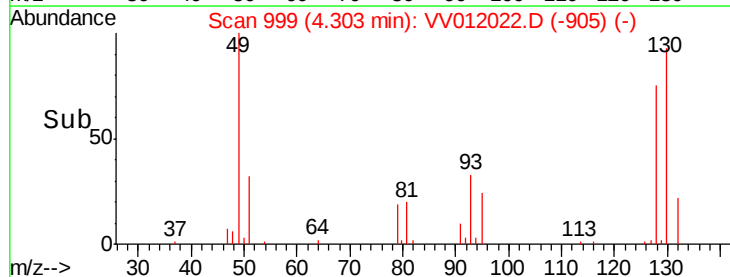
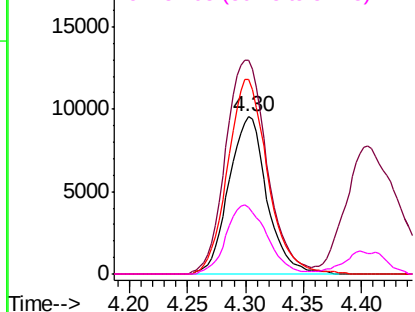


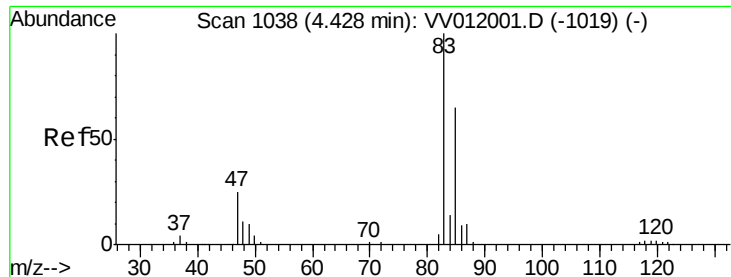
#23
 Bromochloromethane
 Concen: 5.585 ug/L
 RT: 4.30 min Scan# 999
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Tgt Ion: 128 Resp: 21837
 Ion Ratio Lower Upper
 128 100
 49 135.8 105.5 195.9
 130 124.0 88.4 164.2
 51 42.2 37.4 56.2



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

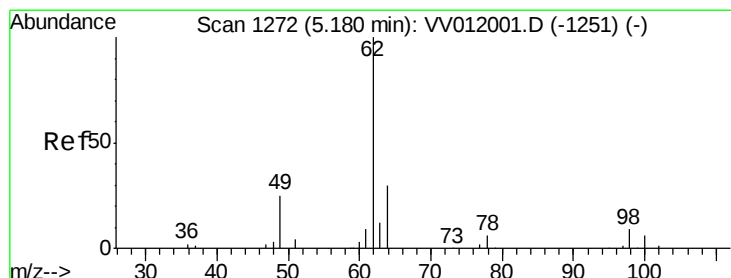
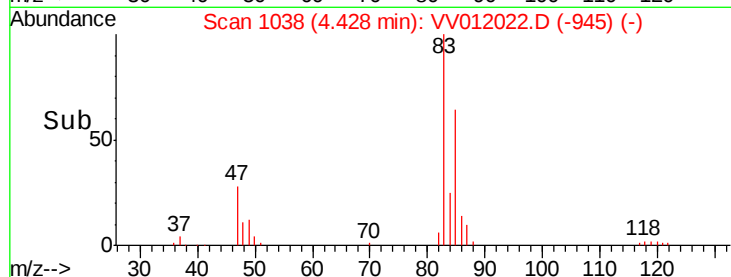
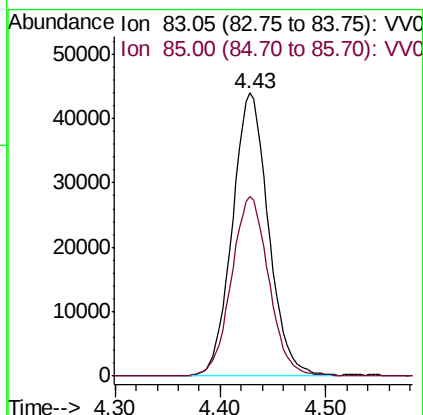
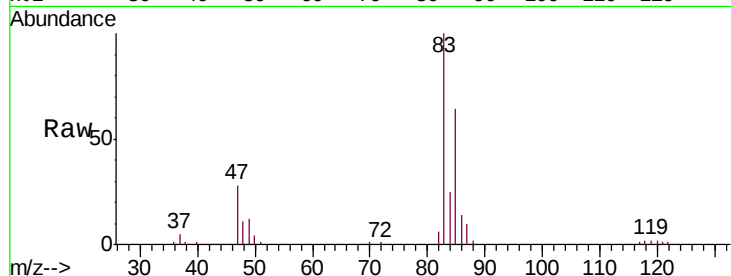




#25
Chloroform
Concen: 5.537 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

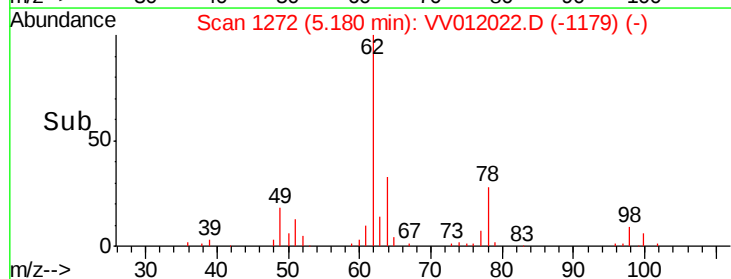
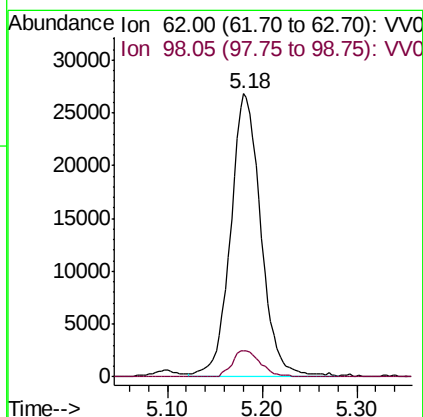
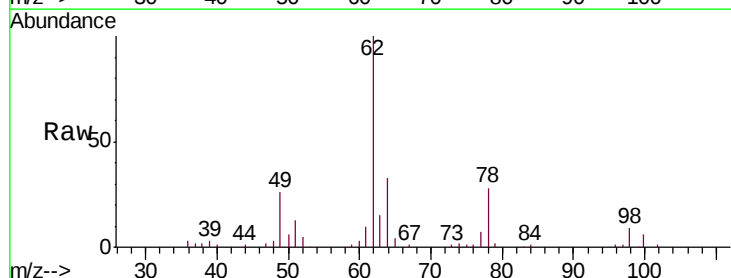
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

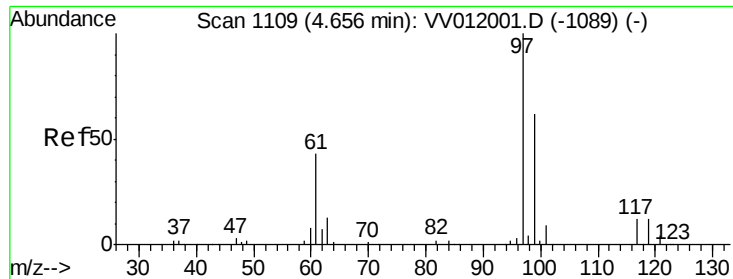
Tgt Ion: 83 Resp: 104512
Ion Ratio Lower Upper
83 100
85 63.5 46.5 86.3



#27
1,2-Dichloroethane
Concen: 5.647 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

Tgt Ion: 62 Resp: 59264
Ion Ratio Lower Upper
62 100
98 9.2 7.0 10.6

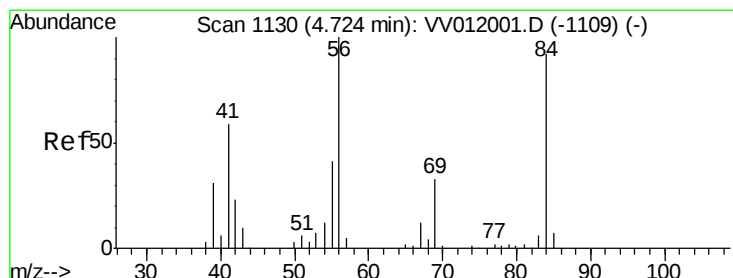
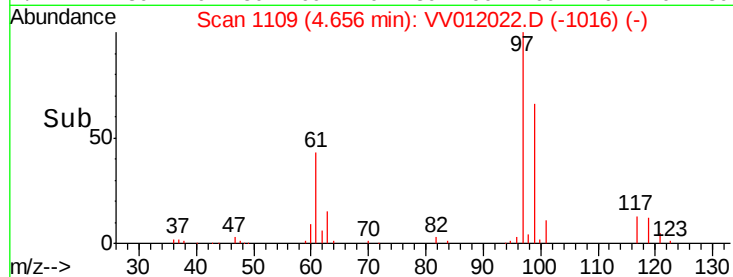
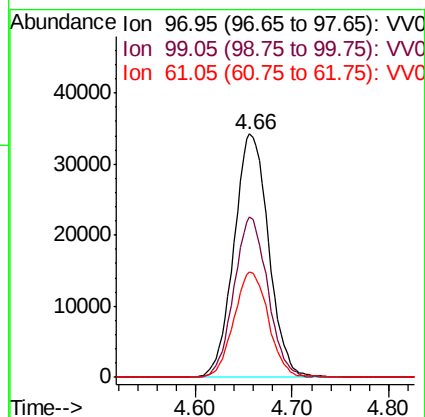
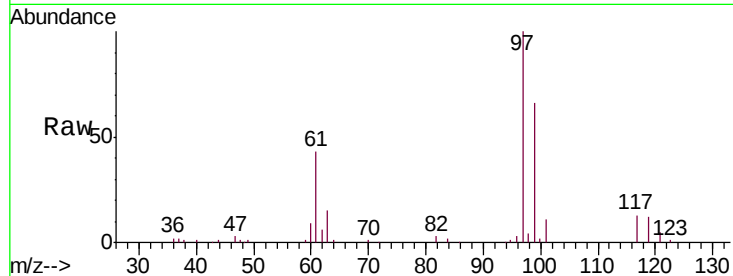




#29
 1,1,1-Trichloroethane
 Concen: 5.569 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

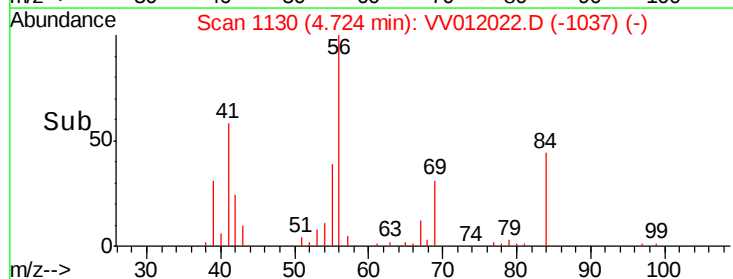
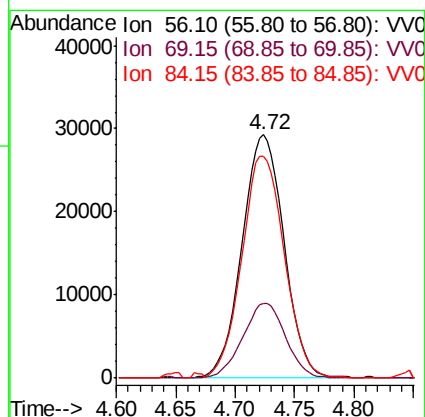
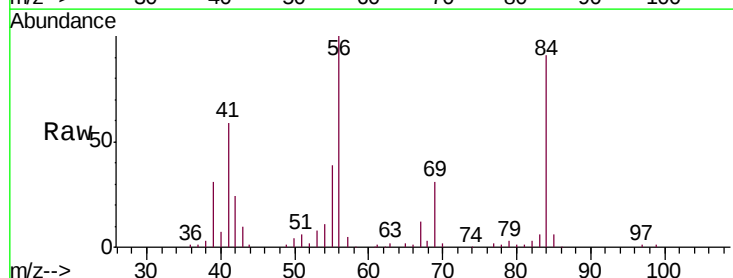
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

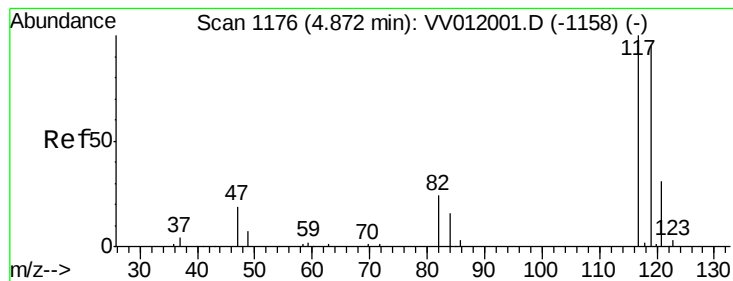
Tgt Ion: 97 Resp: 85352
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.7 77.5
 61 42.9 35.1 52.7



#30
 Cyclohexane
 Concen: 4.940 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Tgt Ion: 56 Resp: 71531
 Ion Ratio Lower Upper
 56 100
 69 31.3 25.4 38.2
 84 92.7 73.4 110.0





#31

Carbon tetrachloride

Concen: 5.463 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

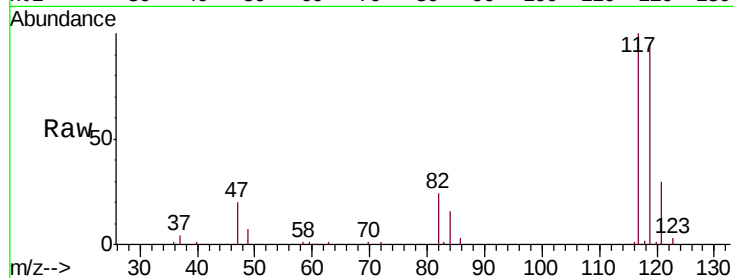
VSTD00548

Tgt Ion:117 Resp: 75384

Ion Ratio Lower Upper

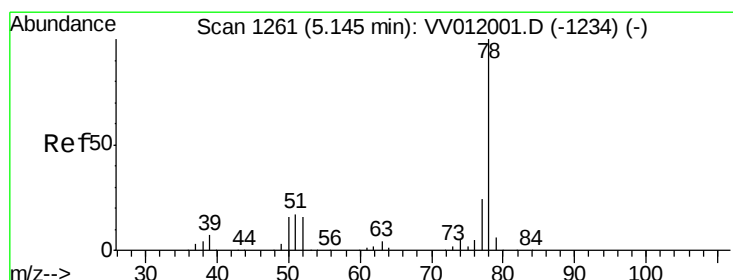
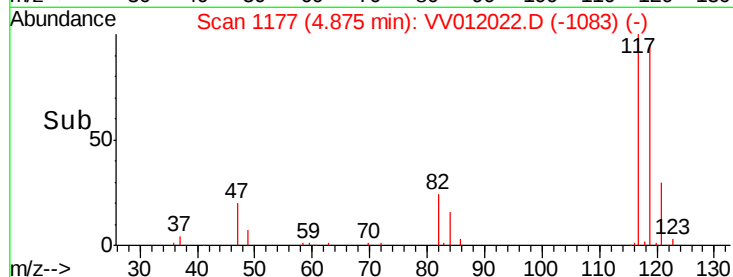
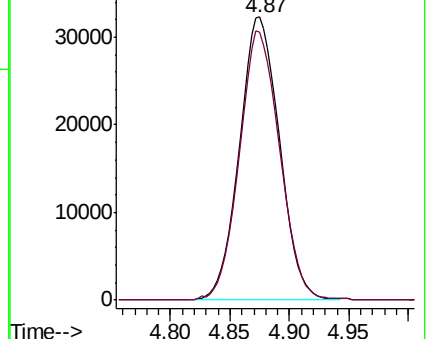
117 100

119 95.3 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.357 ug/L

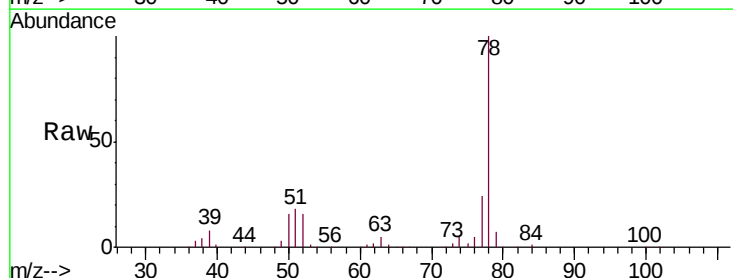
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

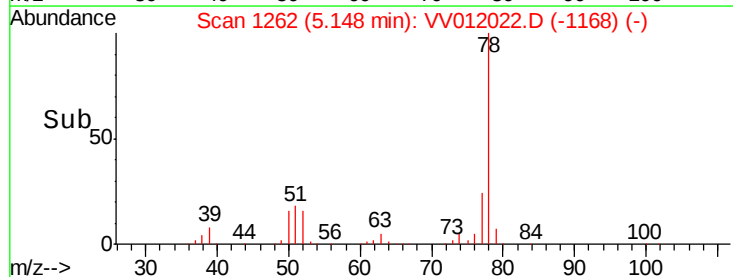
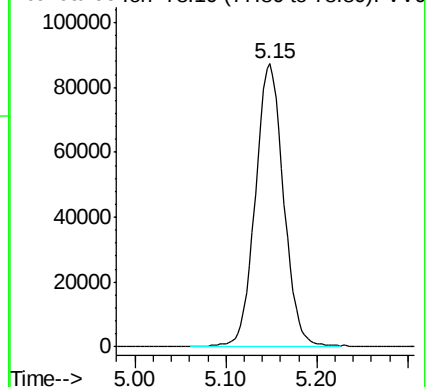
Lab File: VV012022.D

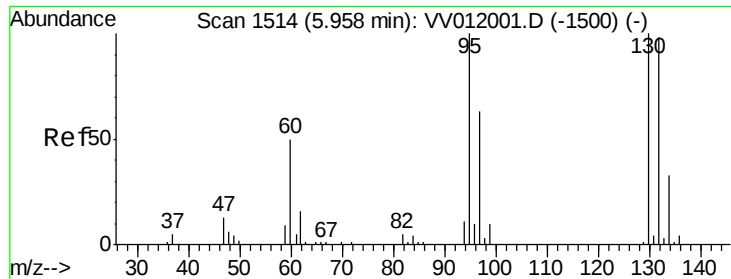
Acq: 24 Jul 2019 20:44

Tgt Ion: 78 Resp: 188697



Abundance Ion 78.10 (77.80 to 78.80): VV0

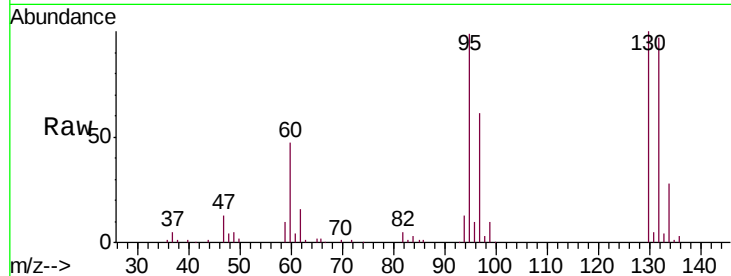




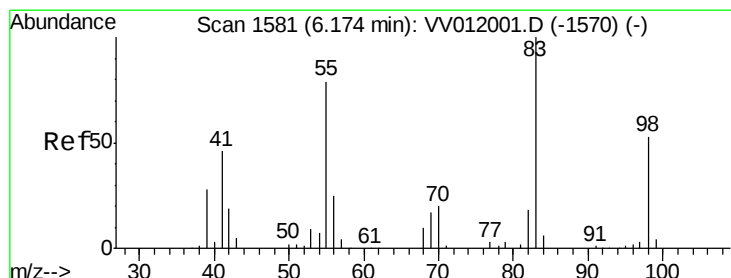
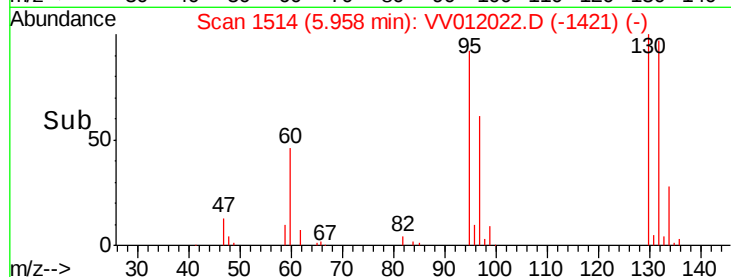
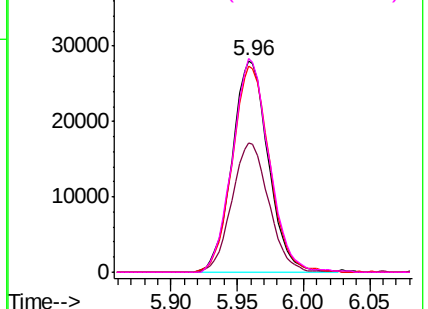
#34
 Trichloroethene
 Concen: 5.448 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tgt Ion: 95 Resp: 53290
 Ion Ratio Lower Upper
 95 100
 97 61.4 45.6 84.6
 132 97.6 71.3 132.3
 130 100.9 72.8 135.2

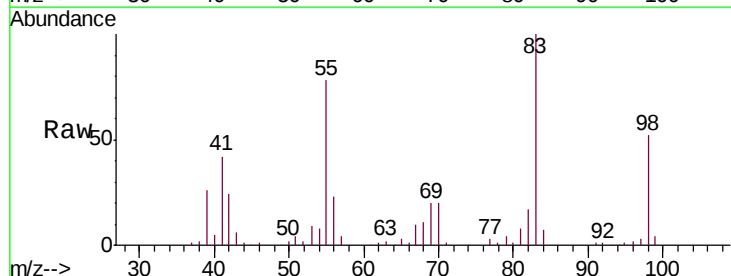


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

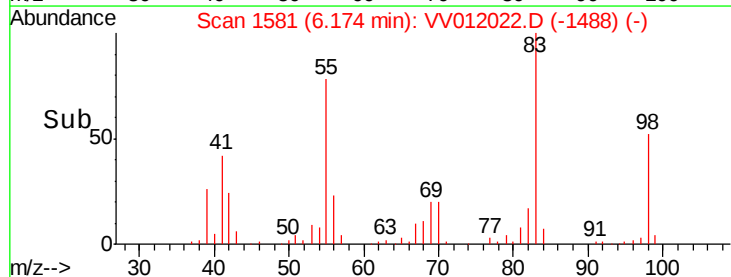
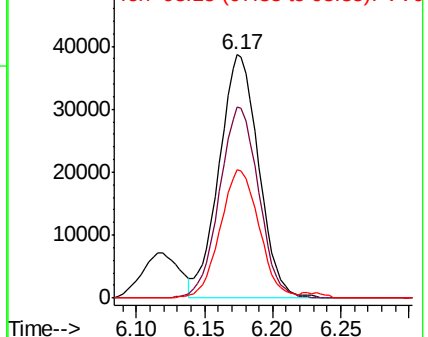


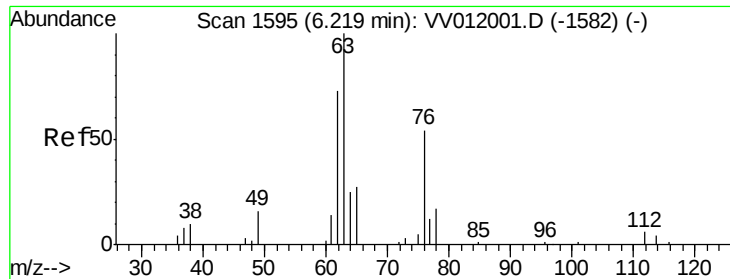
#35
 Methylcyclohexane
 Concen: 5.112 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Tgt Ion: 83 Resp: 77830
 Ion Ratio Lower Upper
 83 100
 55 77.9 63.0 94.4
 98 51.8 41.4 62.0



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0

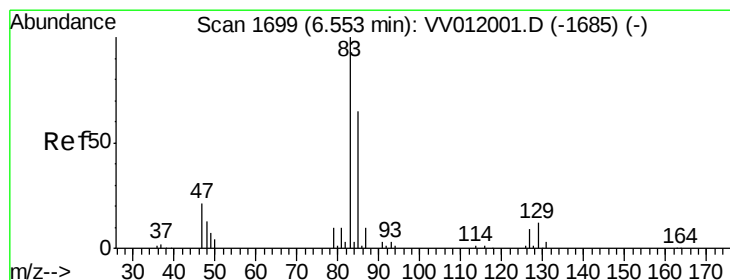
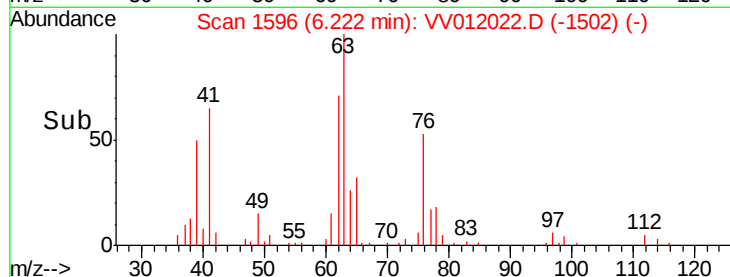
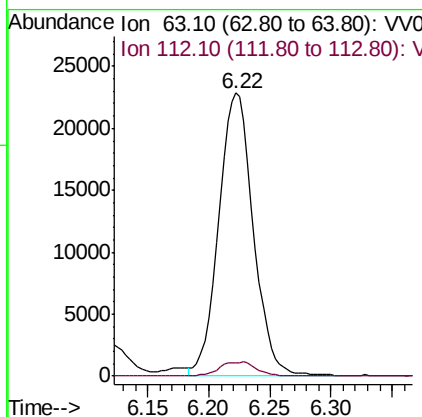
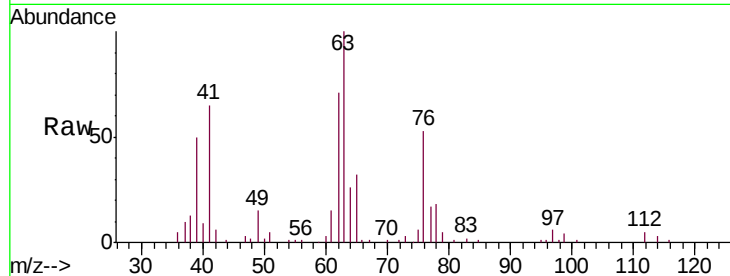




#37
 1,2-Dichloropropane
 Concen: 5.370 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

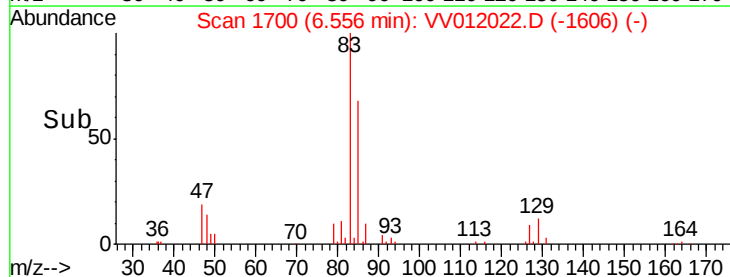
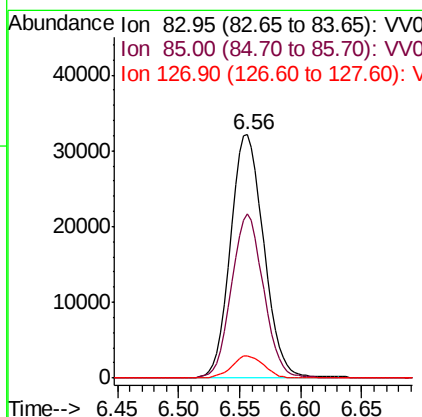
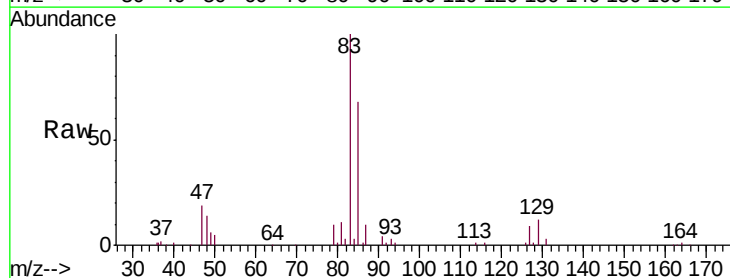
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

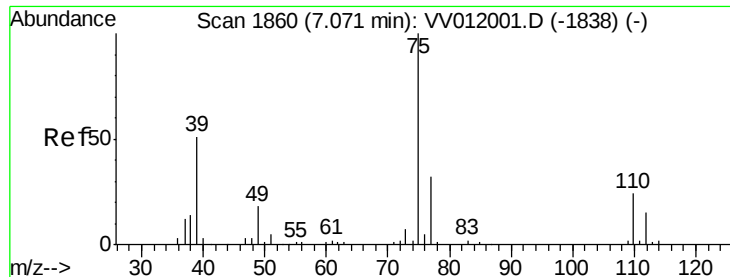
Tgt Ion: 63 Resp: 45477
 Ion Ratio Lower Upper
 63 100
 112 5.2 4.2 6.4



#38
 Bromodichloromethane
 Concen: 5.414 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Tgt Ion: 83 Resp: 61256
 Ion Ratio Lower Upper
 83 100
 85 67.5 44.4 82.4
 127 9.0 7.9 11.9

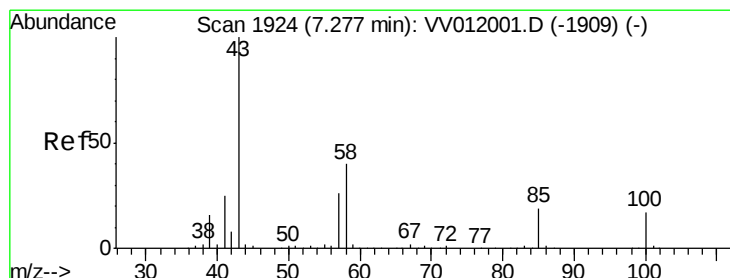
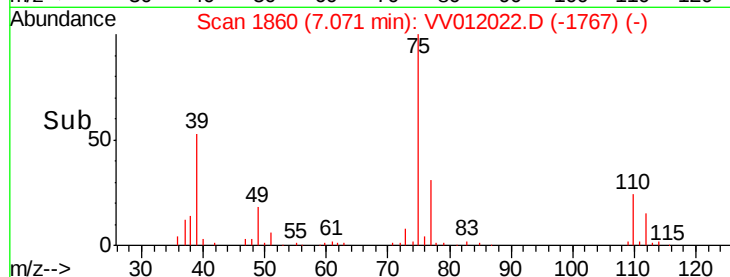
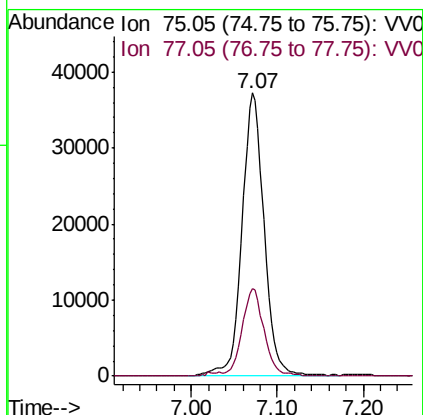
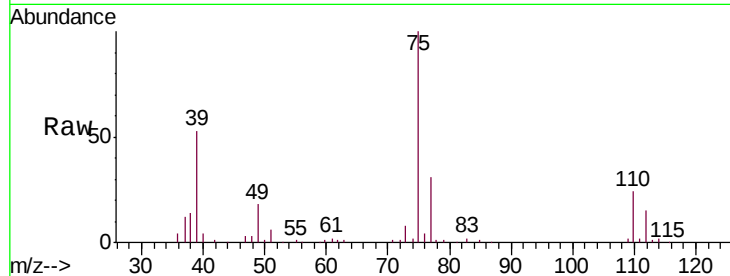




#39
 cis-1,3-Dichloropropene
 Concen: 5.322 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

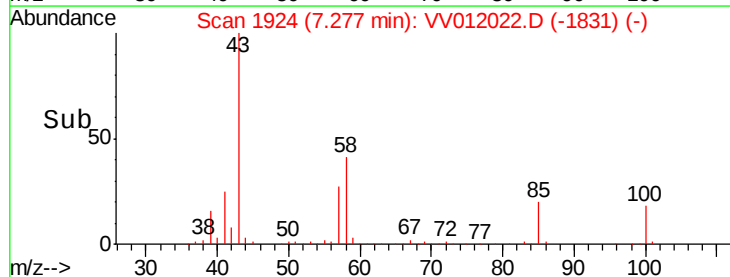
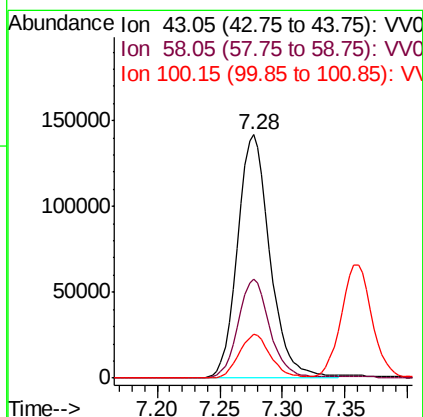
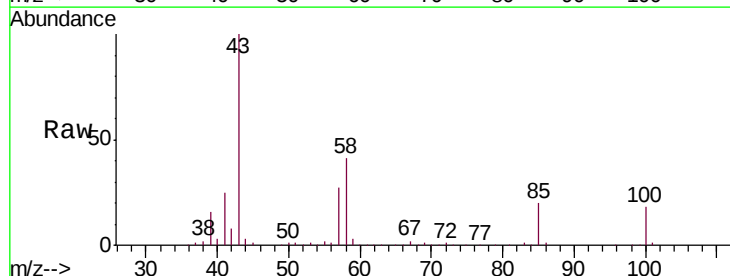
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

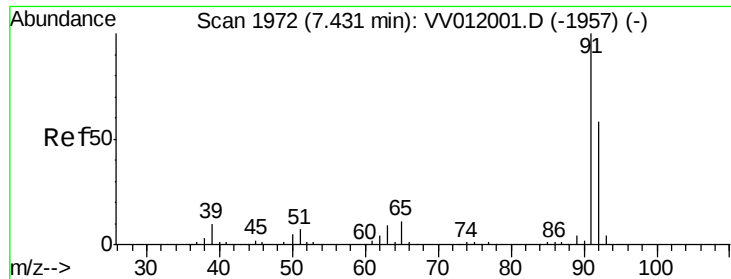
Tgt Ion: 75 Resp: 66795
 Ion Ratio Lower Upper
 75 100
 77 30.9 21.3 39.6



#40
 4-Methyl-2-pentanone
 Concen: 54.051 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Tgt Ion: 43 Resp: 255749
 Ion Ratio Lower Upper
 43 100
 58 39.7 31.2 46.8
 100 17.4 13.5 20.3





#42

Toluene

Concen: 5.571 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

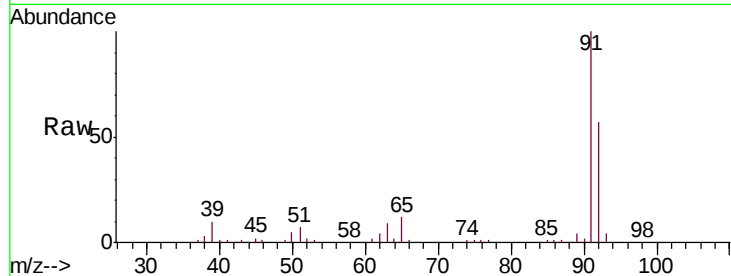
VSTD00548

Tgt Ion: 91 Resp: 210657

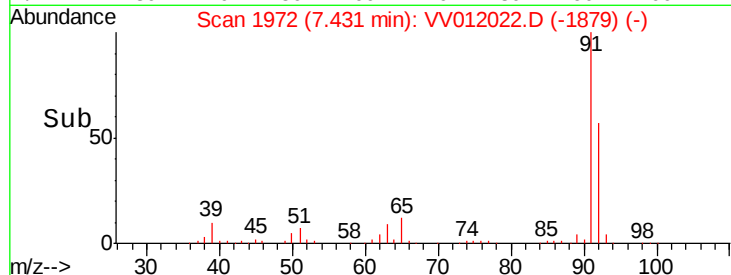
Ion Ratio Lower Upper

91 100

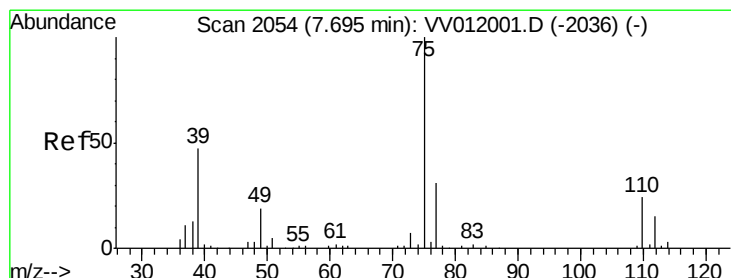
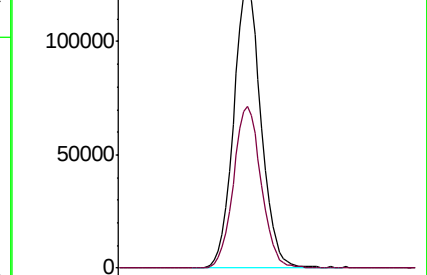
92 57.1 41.9 77.9



Abundance Ion 91.15 (90.85 to 91.85): VV012022.D (-1879) (-)



Ion 92.15 (91.85 to 92.85): VV012022.D (-1879) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.366 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012022.D

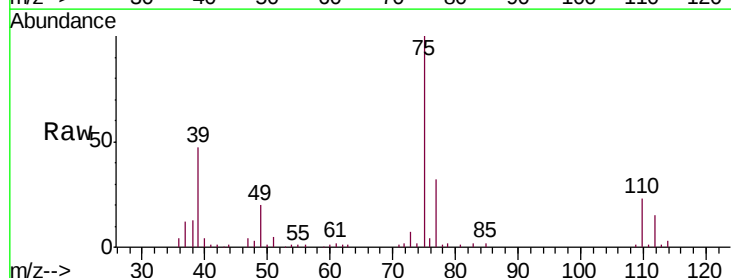
Acq: 24 Jul 2019 20:44

Tgt Ion: 75 Resp: 53572

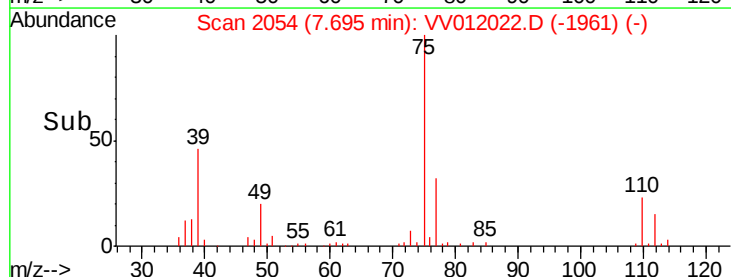
Ion Ratio Lower Upper

75 100

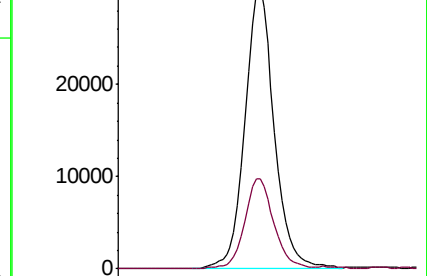
77 32.0 22.0 40.8

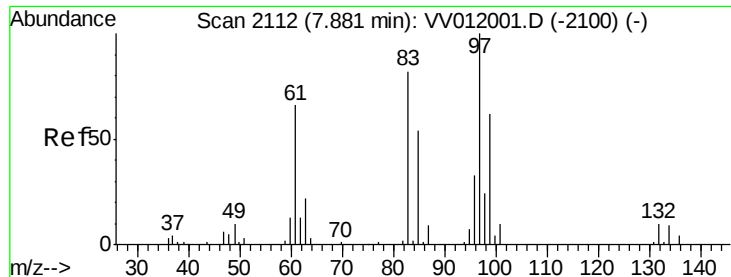


Abundance Ion 75.05 (74.75 to 75.75): VV012022.D (-1961) (-)



Ion 77.05 (76.75 to 77.75): VV012022.D (-1961) (-)

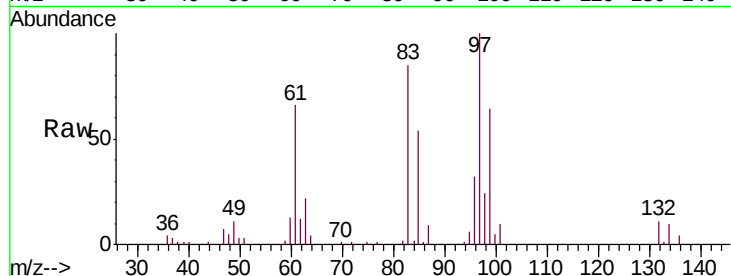




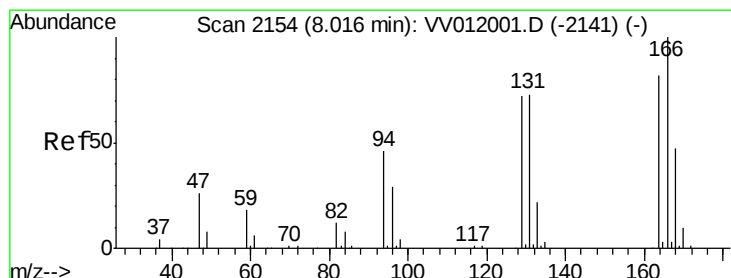
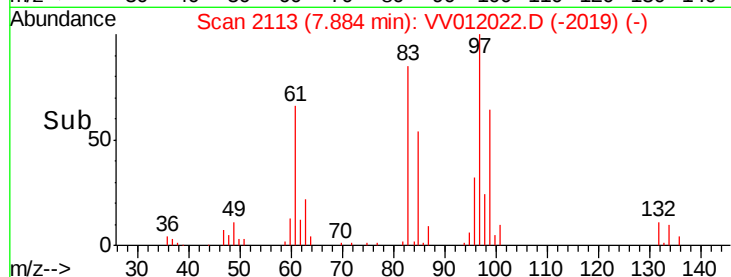
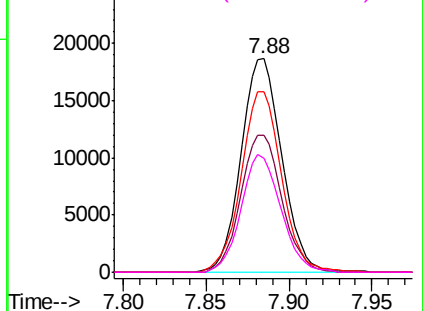
#45
 1,1,2-Trichloroethane
 Concen: 5.468 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tgt Ion:	97	Resp:	31982
Ion	Ratio	Lower	Upper
97	100		
99	64.0	44.0	81.8
83	84.8	59.5	110.5
85	53.5	36.6	68.0

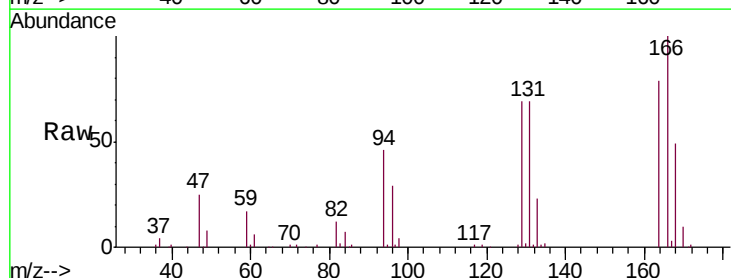


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

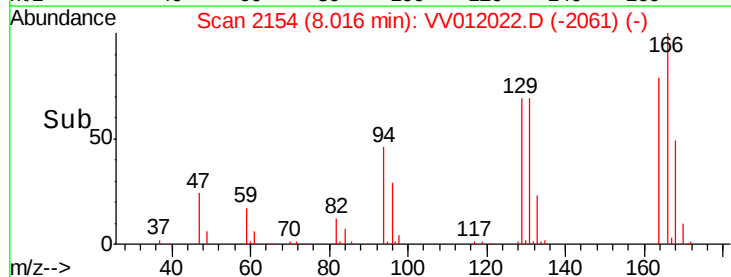
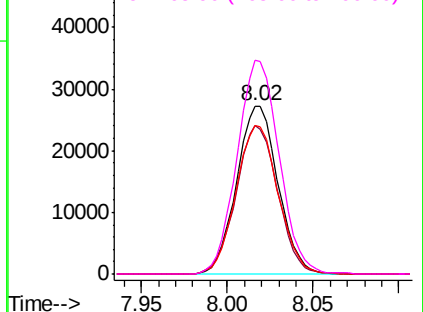


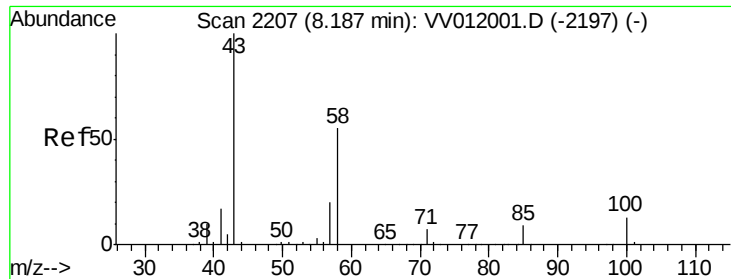
#47
 Tetrachloroethene
 Concen: 5.375 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Tgt Ion:	164	Resp:	45369
Ion	Ratio	Lower	Upper
164	100		
129	88.3	62.5	116.1
131	88.2	58.6	108.8
166	127.3	88.2	163.8



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

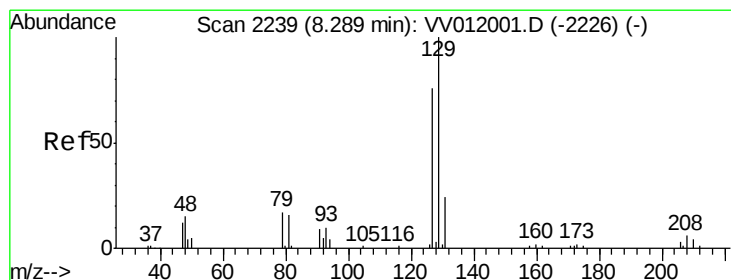
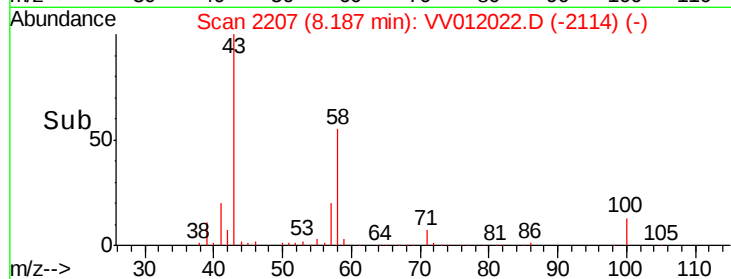
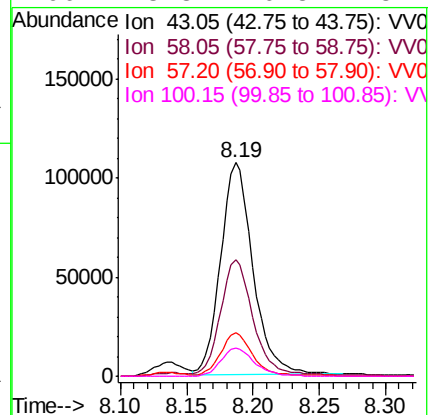
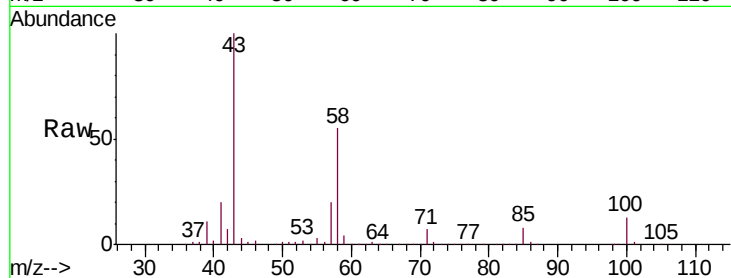




#48
2-Hexanone
Concen: 54.961 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

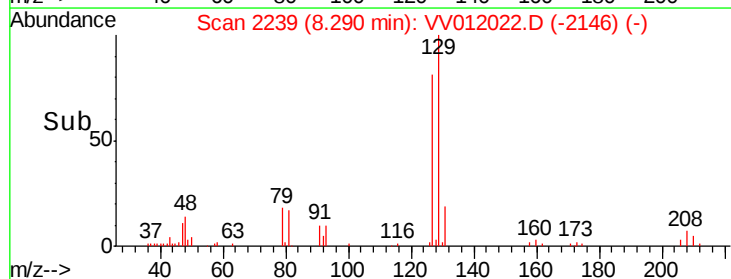
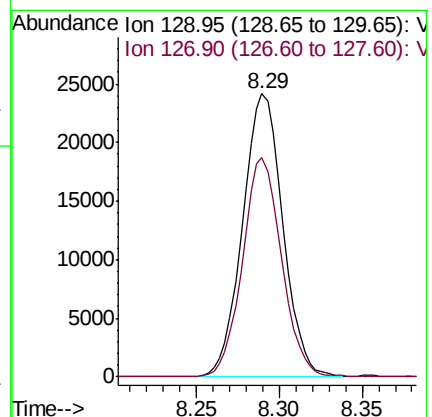
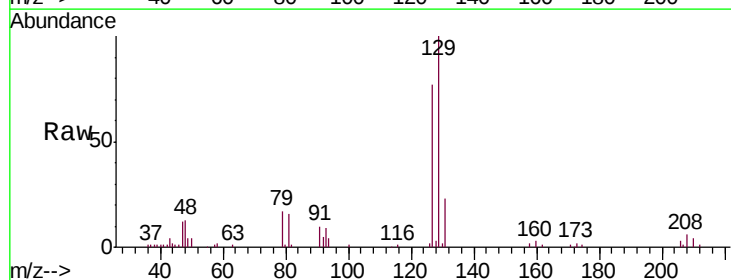
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

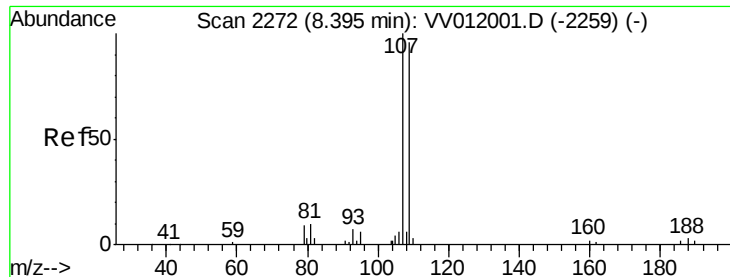
Tgt Ion: 43 Resp: 182428
Ion Ratio Lower Upper
43 100
58 54.6 43.7 65.5
57 20.0 16.0 24.0
100 13.8 10.5 15.7



#49
Dibromochloromethane
Concen: 5.694 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

Tgt Ion: 129 Resp: 40776
Ion Ratio Lower Upper
129 100
127 77.4 55.3 102.7

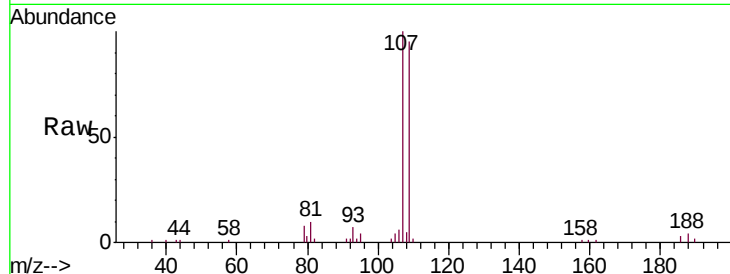




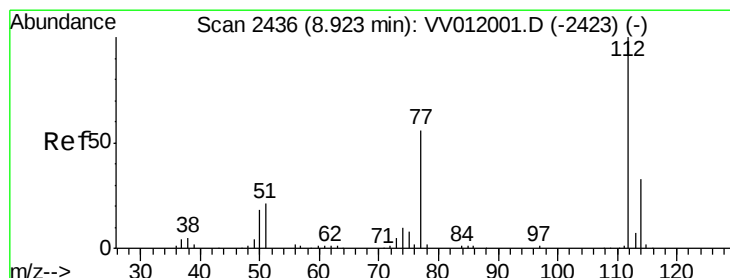
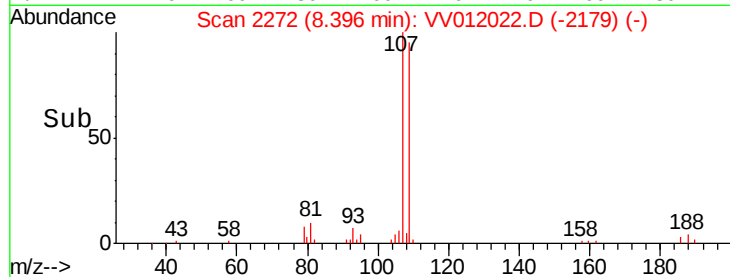
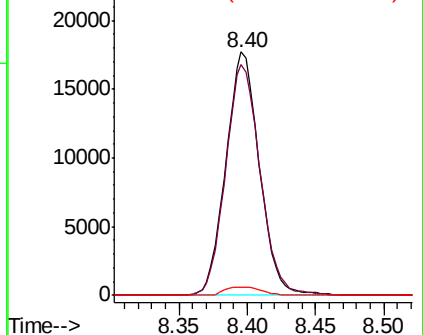
#50
1,2-Dibromoethane
Concen: 5.475 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Tgt Ion:107 Resp: 30235
Ion Ratio Lower Upper
107 100
109 94.6 68.1 126.5
188 3.5 3.5 5.3

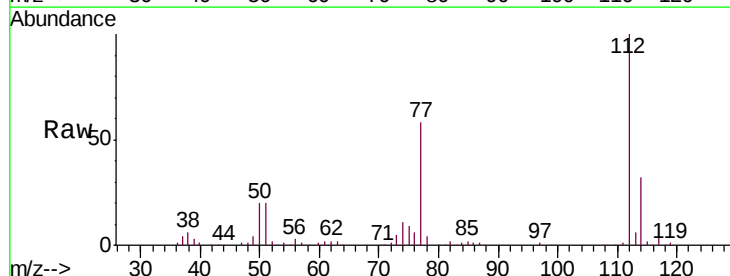


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

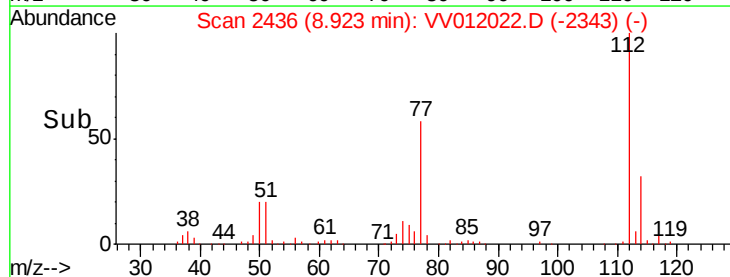
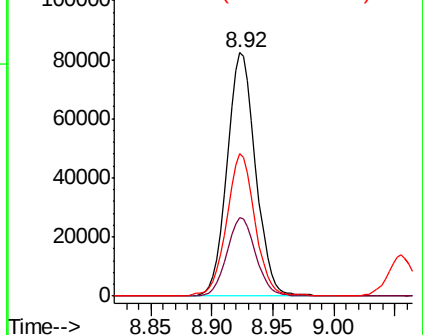


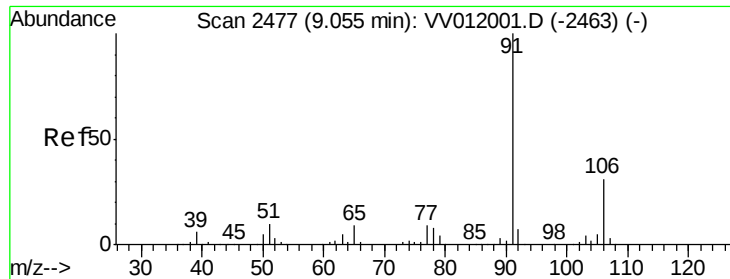
#51
Chlorobenzene
Concen: 5.446 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012022.D
Acq: 24 Jul 2019 20:44

Tgt Ion:112 Resp: 134837
Ion Ratio Lower Upper
112 100
114 32.2 23.0 42.8
77 58.3 46.4 69.6



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 5.476 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

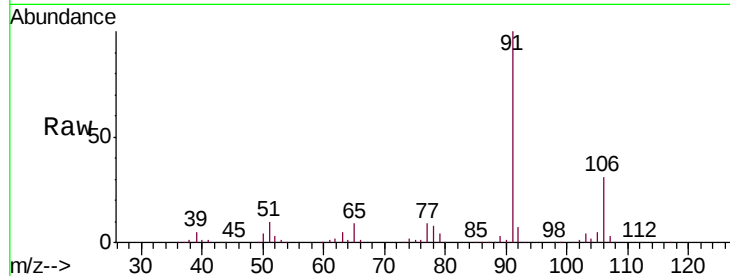
VSTD00548

Tgt Ion: 91 Resp: 236308

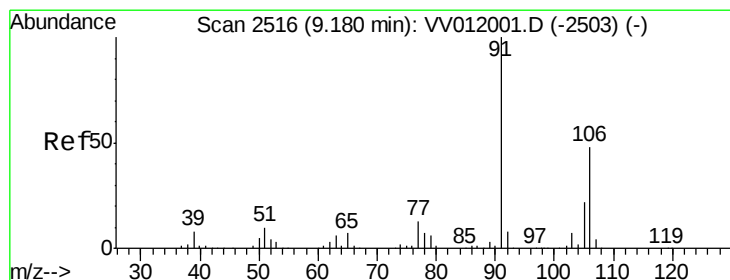
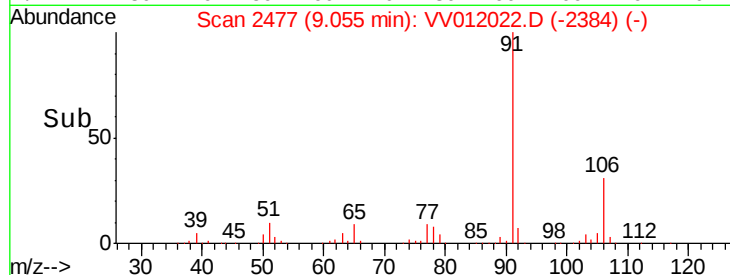
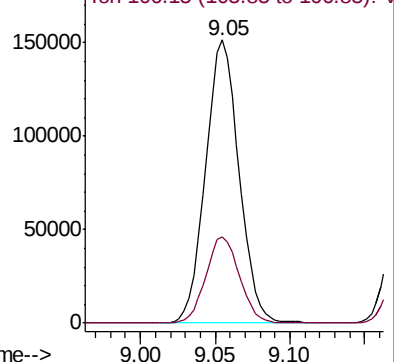
Ion Ratio Lower Upper

91 100

106 30.7 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV012001.D (-2463) (-)



#53

m,p-xylene

Concen: 5.596 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012022.D

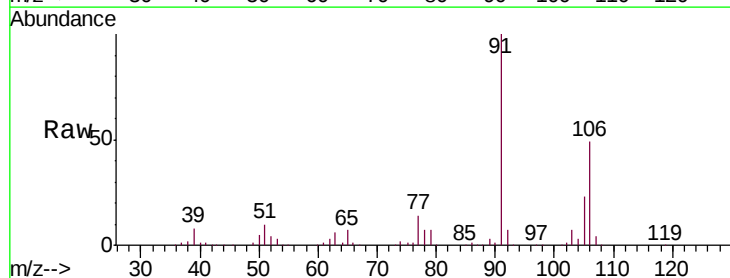
Acq: 24 Jul 2019 20:44

Tgt Ion: 106 Resp: 91927

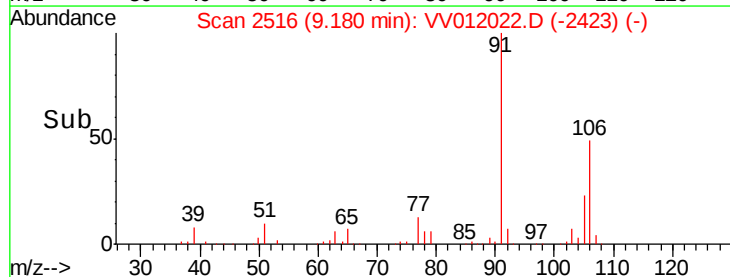
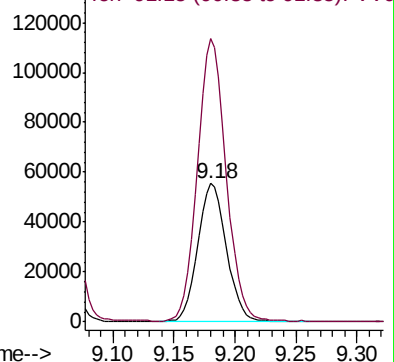
Ion Ratio Lower Upper

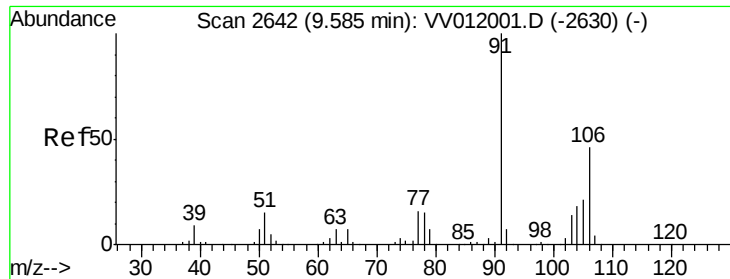
106 100

91 204.8 142.7 265.1



Abundance Ion 106.15 (105.85 to 106.85): VV012001.D (-2503) (-)





#54

o-xylene

Concen: 5.504 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

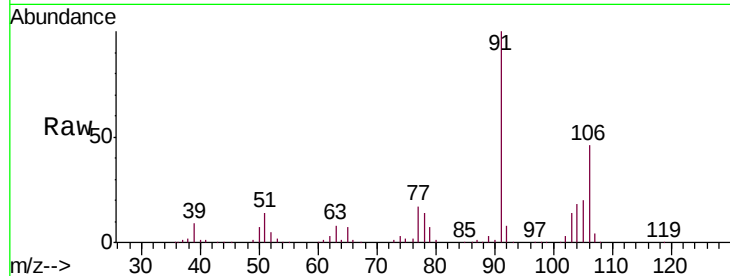
VSTD00548

Tgt Ion:106 Resp: 85728

Ion Ratio Lower Upper

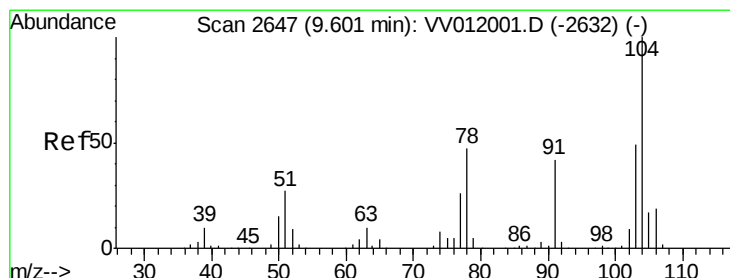
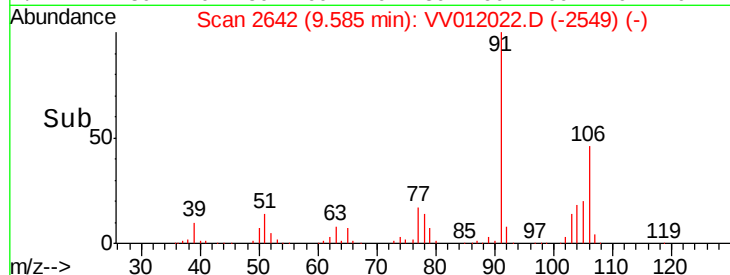
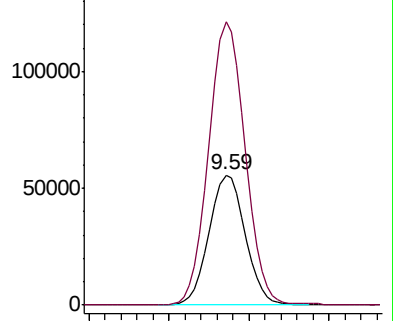
106 100

91 217.9 151.0 280.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.634 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012022.D

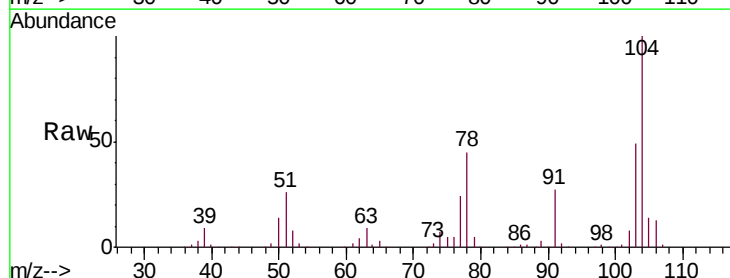
Acq: 24 Jul 2019 20:44

Tgt Ion:104 Resp: 147878

Ion Ratio Lower Upper

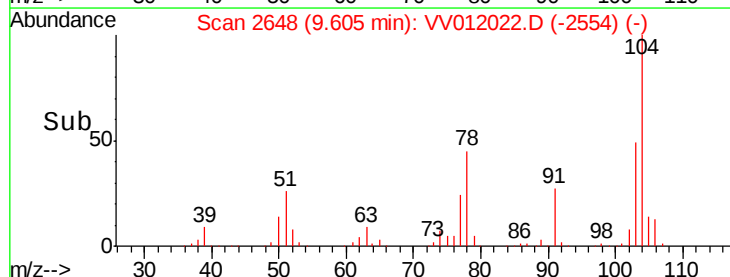
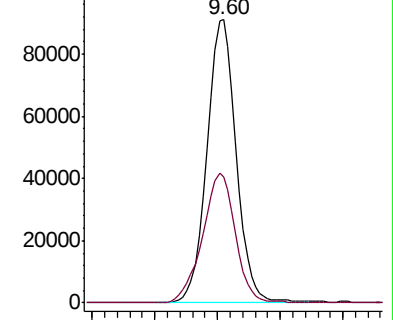
104 100

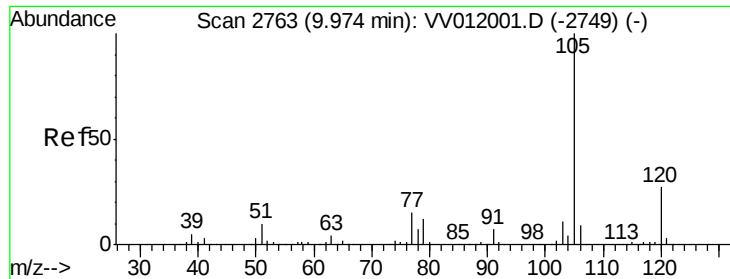
78 44.6 30.8 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.508 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

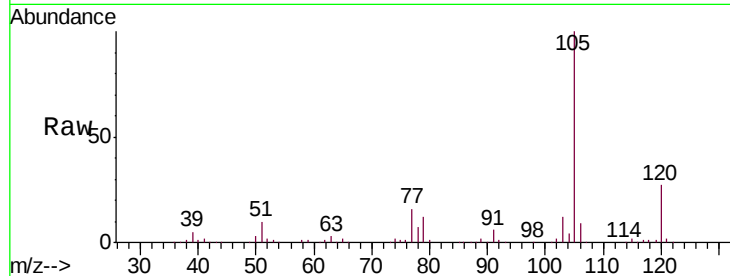
Tgt Ion:105 Resp: 239579

Ion Ratio Lower Upper

105 100

120 26.4 20.8 31.2

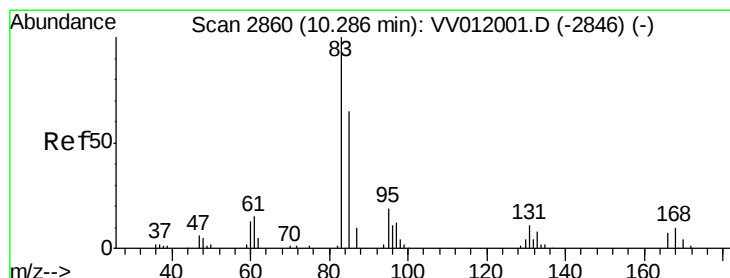
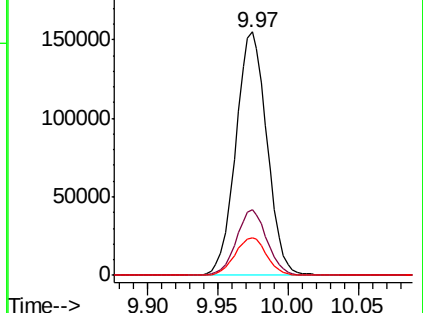
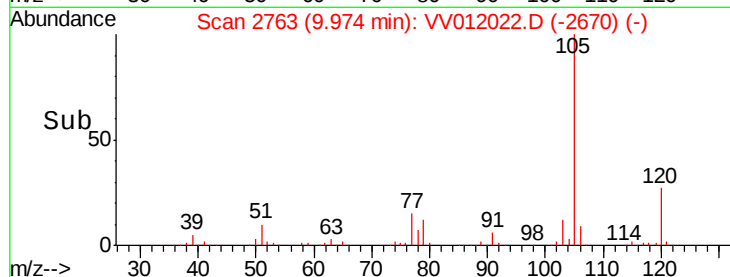
77 15.8 12.6 19.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.564 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

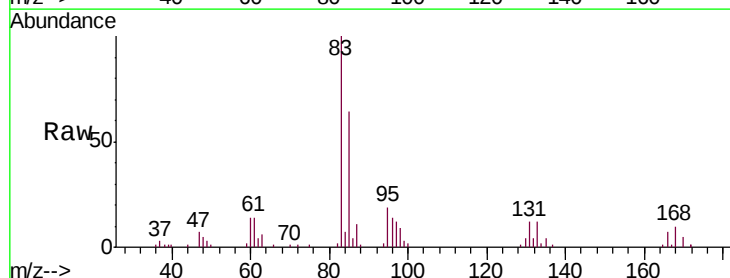
Tgt Ion: 83 Resp: 35270

Ion Ratio Lower Upper

83 100

85 64.3 46.3 85.9

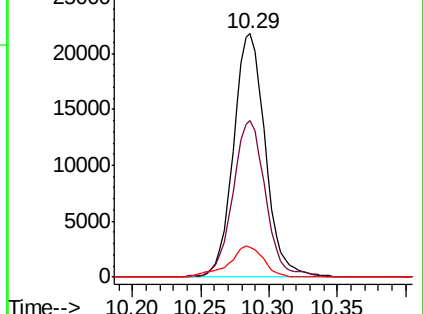
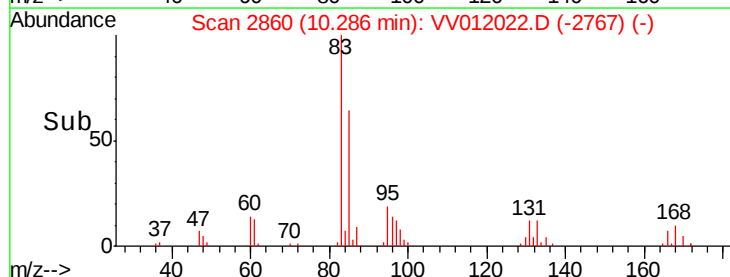
131 12.1 8.9 13.3

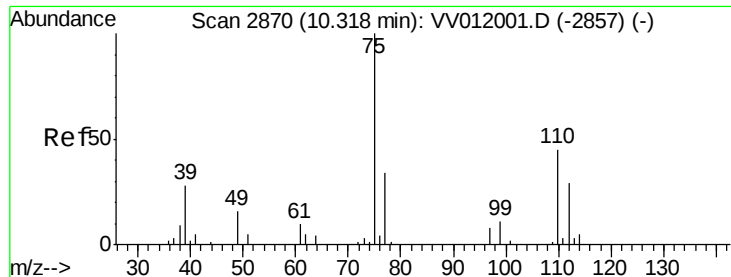


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.433 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

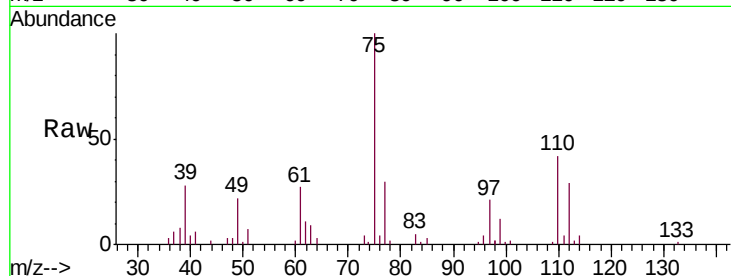
VSTD00548

Tgt Ion: 75 Resp: 26837

Ion Ratio Lower Upper

75 100

77 32.1 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VV012022.D (-2777) (-)

Ion 77.00 (76.70 to 77.70): VV012022.D (-2777) (-)

10.32

15000

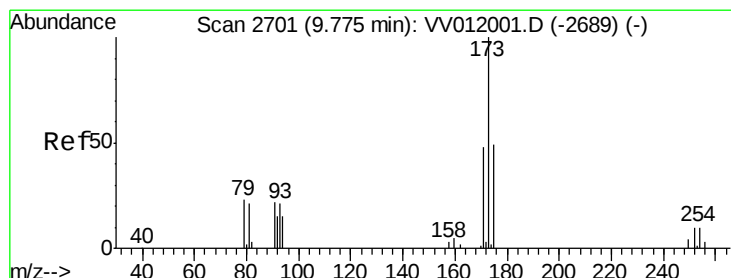
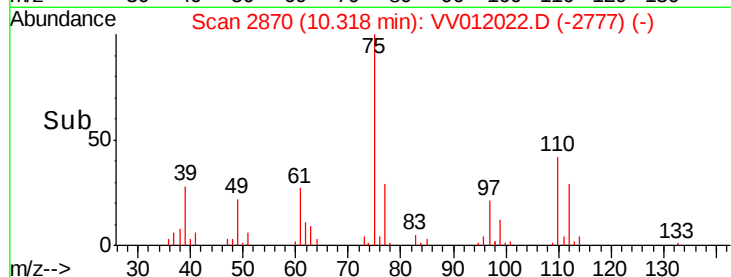
10000

5000

0

Time-->

10.25 10.30 10.35



#61

Bromoform

Concen: 5.470 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

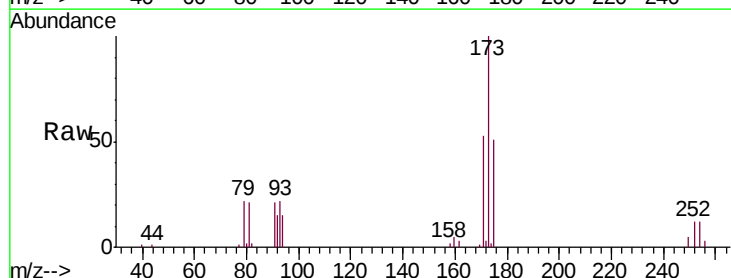
Tgt Ion: 173 Resp: 21589

Ion Ratio Lower Upper

173 100

175 49.5 39.6 59.4

254 11.0 7.9 11.9



Abundance Ion 172.90 (172.60 to 173.60): VV012022.D (-2608) (-)

Ion 174.90 (174.60 to 175.60): VV012022.D (-2608) (-)

Ion 253.75 (253.45 to 254.45): VV012022.D (-2608) (-)

9.78

15000

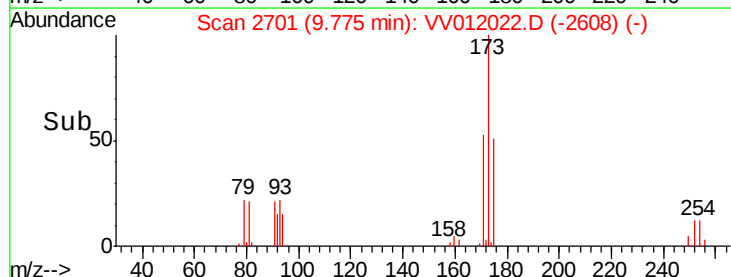
10000

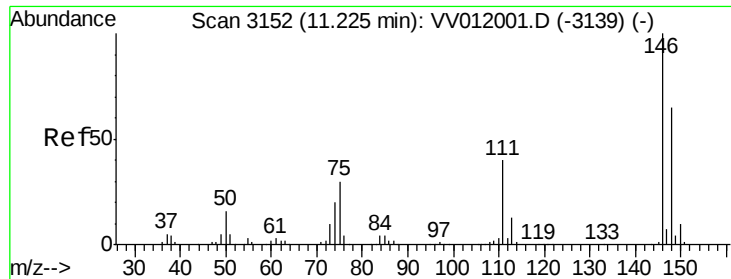
5000

0

Time-->

9.70 9.75 9.80





#62

1,3-Dichlorobenzene

Concen: 5.452 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

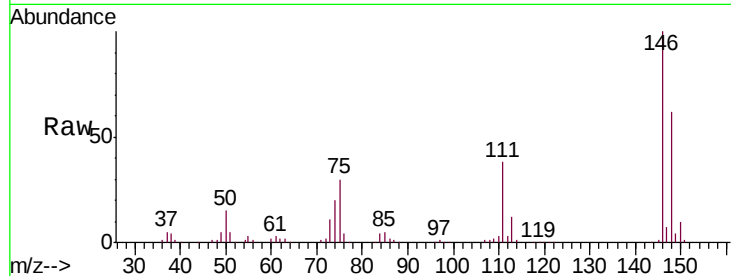
Tgt Ion:146 Resp: 114662

Ion Ratio Lower Upper

146 100

111 37.7 27.1 50.3

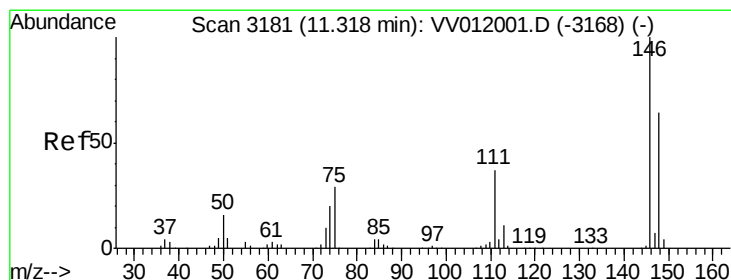
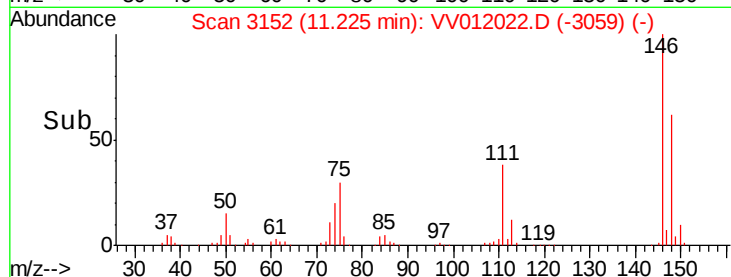
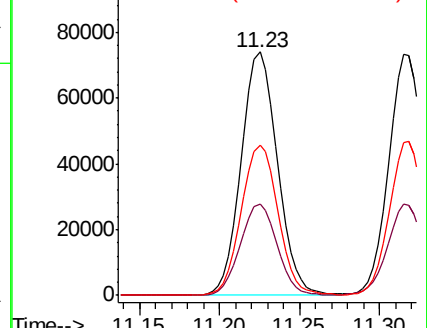
148 61.7 44.5 82.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.372 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

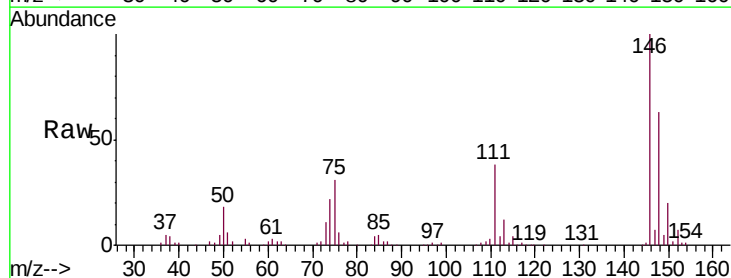
Tgt Ion:146 Resp: 116308

Ion Ratio Lower Upper

146 100

111 37.8 26.0 48.2

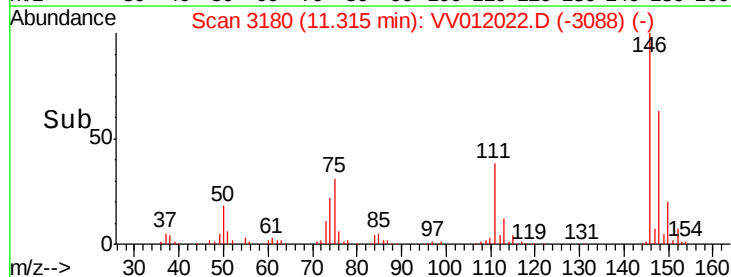
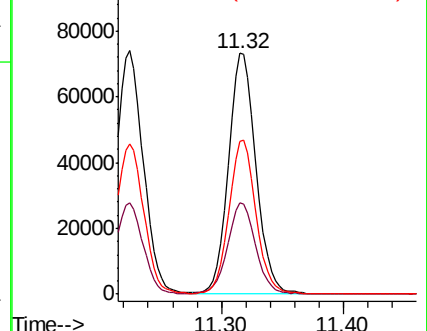
148 63.2 43.0 80.0

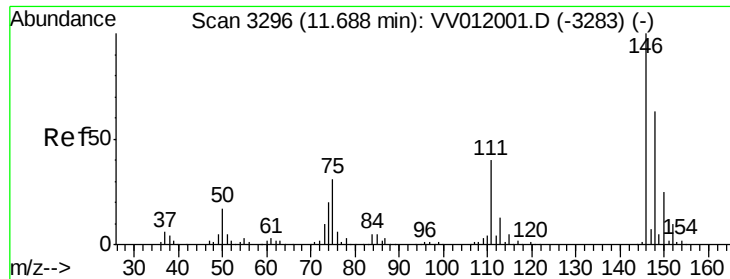


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.445 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

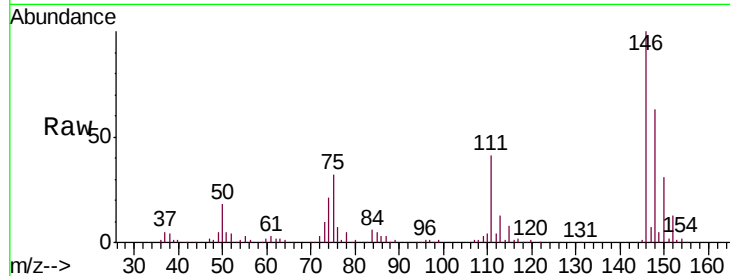
Tgt Ion:146 Resp: 105420

Ion Ratio Lower Upper

146 100

111 41.4 32.5 48.7

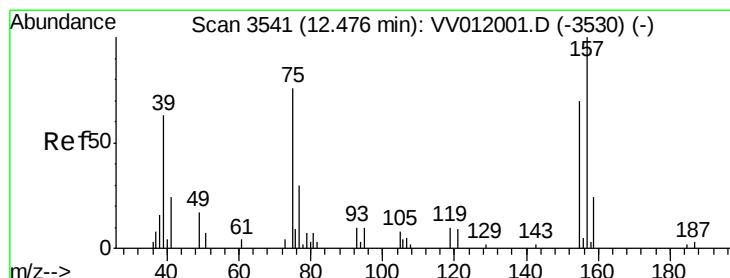
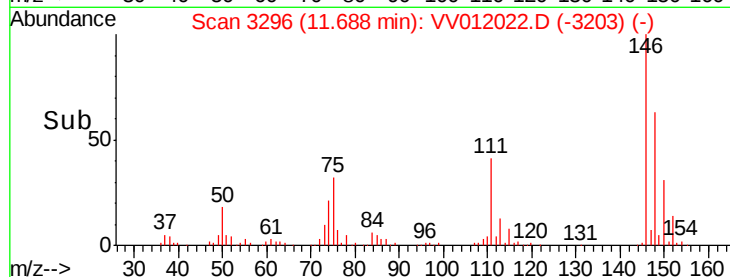
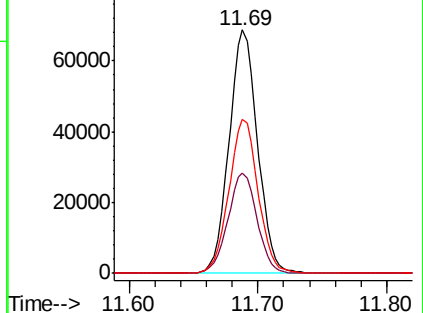
148 63.0 51.4 77.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.222 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

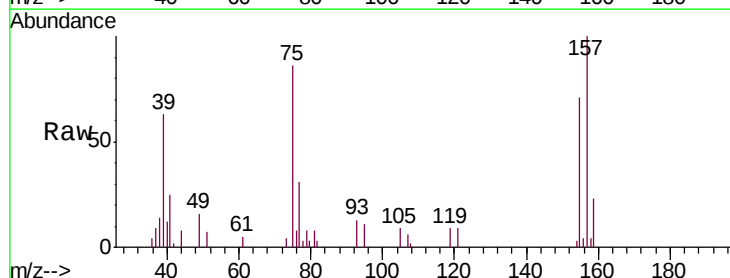
Tgt Ion: 75 Resp: 5874

Ion Ratio Lower Upper

75 100

155 82.5 69.5 104.3

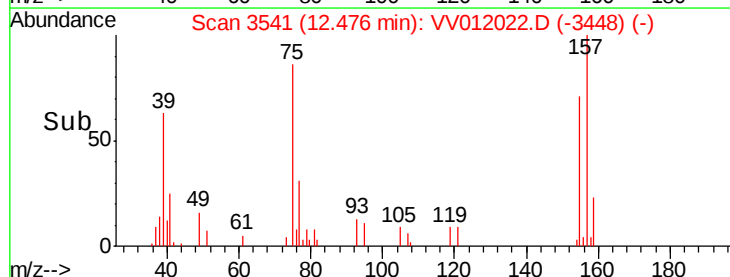
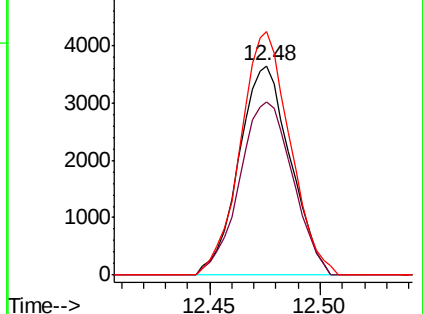
157 116.3 96.2 144.2

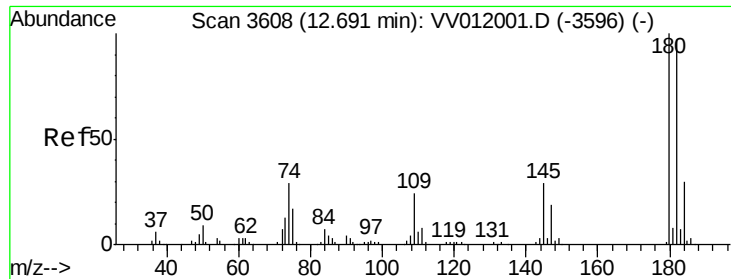


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

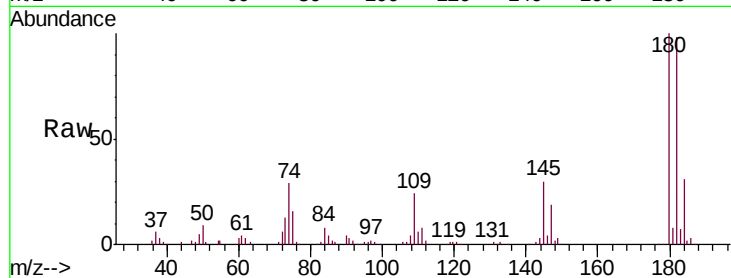




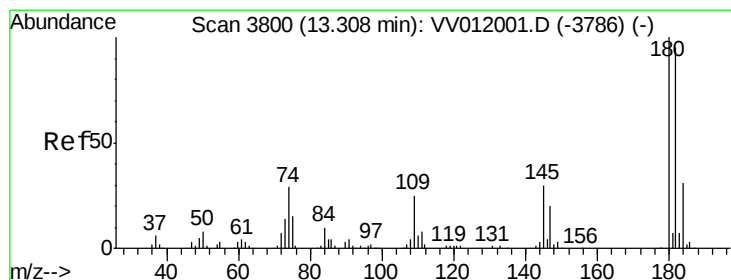
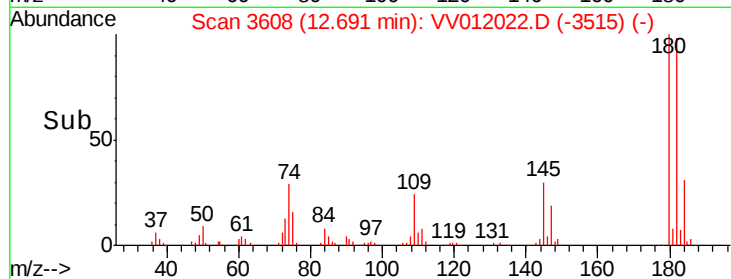
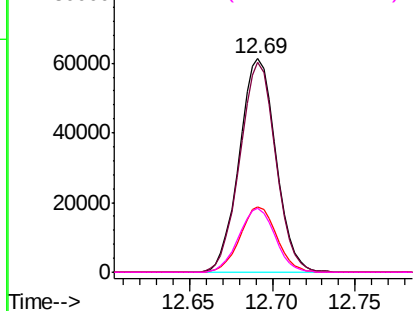
#67
 1,3,5-Trichlorobenzene
 Concen: 5.357 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tgt Ion:180 Resp: 94221
 Ion Ratio Lower Upper
 180 100
 182 96.2 77.4 116.0
 184 30.5 25.2 37.8
 145 29.9 24.4 36.6

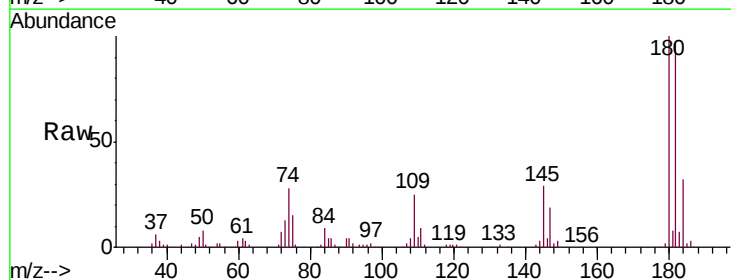


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

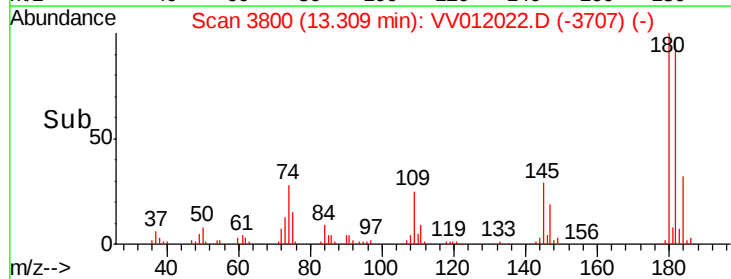
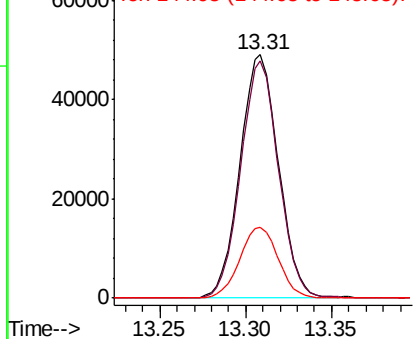


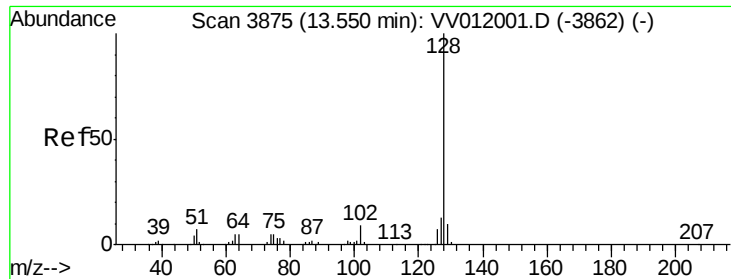
#68
 1,2,4-trichlorobenzene
 Concen: 5.358 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012022.D
 Acq: 24 Jul 2019 20:44

Tgt Ion:180 Resp: 76534
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.8 113.8
 145 29.1 23.4 35.2



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.166 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

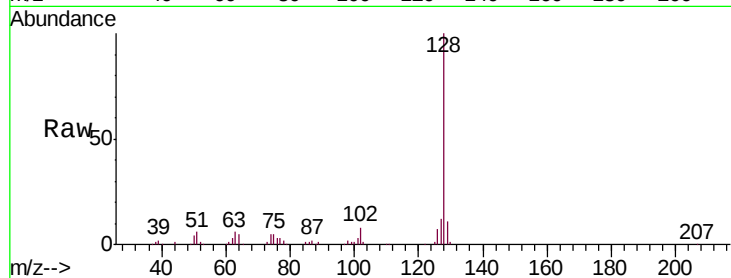
Tgt Ion:128 Resp: 111258

Ion Ratio Lower Upper

128 100

129 10.9 8.2 12.2

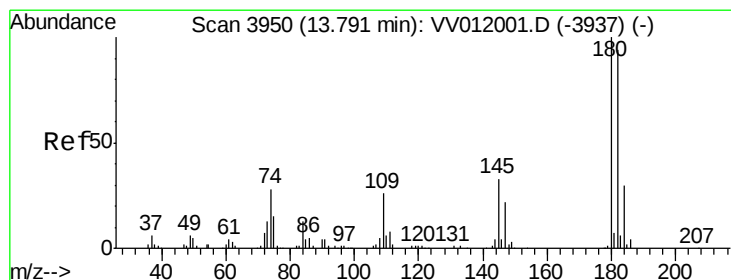
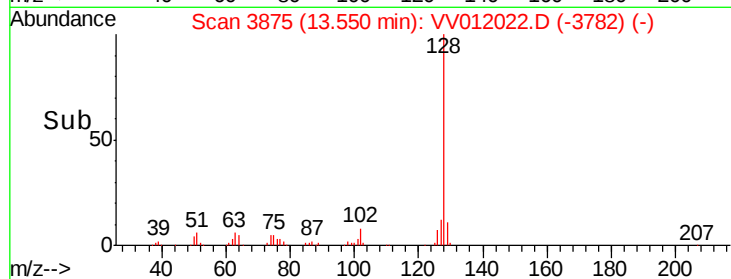
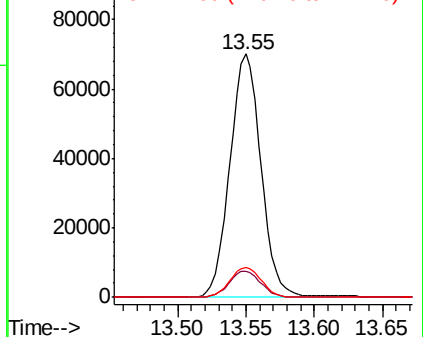
127 12.5 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.486 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012022.D

Acq: 24 Jul 2019 20:44

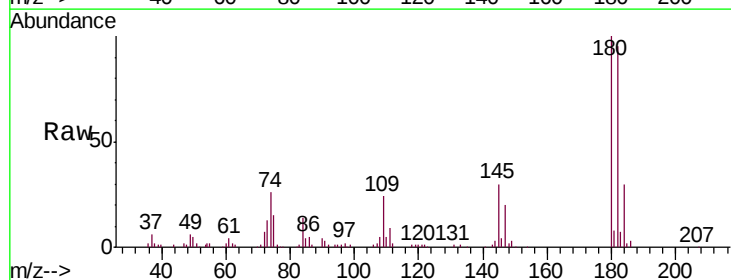
Tgt Ion:180 Resp: 71094

Ion Ratio Lower Upper

180 100

182 94.6 75.5 113.3

145 30.4 24.7 37.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

