

Data File : VV011959.D
Acq On : 22 Jul 2019 20:28
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00543

Quant Time: Jul 23 07:22:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jul 23 07:18:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	139619	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	136341	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	70622	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	32646	4.50	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.00%
7) Chloroethane-d5	1.58	69	26398	4.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.40%
11) 1,1-Dichloroethene-d2	2.13	63	70275	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.40%
20) 2-Butanone-d5	3.96	46	105135	49.57	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.14%
24) Chloroform-d	4.40	84	88127	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
26) 1,2-Dichloroethane-d4	5.08	65	47456	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
32) Benzene-d6	5.10	84	177825	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	6.12	67	50808	4.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.40%
41) Toluene-d8	7.36	98	165431	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
43) trans-1,3-Dichloropropene-	7.67	79	20792	4.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.20%
46) 2-Hexanone-d5	8.14	63	86369	48.70	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.40%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	37311	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	64200	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	70505	4.886	ug/L 98
3) Chloromethane	1.25	50	39659	4.736	ug/L 97
5) Vinyl chloride	1.32	62	40982	4.780	ug/L 99
6) Bromomethane	1.54	94	24981	4.954	ug/L 98
8) Chloroethane	1.60	64	24911	4.911	ug/L 99
9) Trichlorofluoromethane	1.77	101	79246	5.014	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	34423	4.845	ug/L 100
12) 1,1-Dichloroethene	2.14	96	31267	4.920	ug/L 94
13) Acetone	2.23	43	52429	45.854	ug/L 100
14) Carbon disulfide	2.32	76	86258	4.763	ug/L 99
15) Methyl Acetate	2.47	43	10667	4.273	ug/L 97
16) Methylene chloride	2.53	84	31823	4.466	ug/L 98
17) Methyl tert-butyl Ether	2.81	73	108027	4.982	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	48610	4.912	ug/L 99
19) 1,1-Dichloroethane	3.23	63	86404	4.944	ug/L 98
21) 2-Butanone	4.05	43	115407	52.615	ug/L 96
22) cis-1,2-Dichloroethene	3.96	96	50947	4.791	ug/L 98

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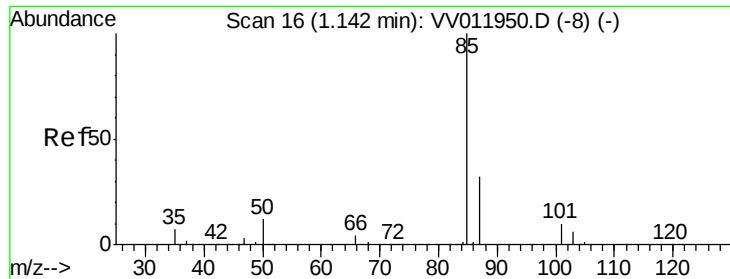
Quant Time: Jul 23 07:22:53 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	21584	4.937	ug/L	90
25) Chloroform	4.43	83	103710	4.913	ug/L	96
27) 1,2-Dichloroethane	5.18	62	60138	5.124	ug/L	100
29) 1,1,1-Trichloroethane	4.66	97	86870	4.978	ug/L	99
30) Cyclohexane	4.72	56	78261	4.747	ug/L	99
31) Carbon tetrachloride	4.87	117	77134	4.910	ug/L	100
33) Benzene	5.15	78	196944	4.911	ug/L	100
34) Trichloroethene	5.96	95	52634	4.726	ug/L	99
35) Methylcyclohexane	6.18	83	83635	4.825	ug/L	98
37) 1,2-Dichloropropane	6.22	63	46258	4.798	ug/L	98
38) Bromodichloromethane	6.56	83	60701	4.712	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	70402	4.926	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	272349	50.555	ug/L	100
42) Toluene	7.43	91	214666	4.987	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	54989	4.838	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	33121	4.974	ug/L	97
47) Tetrachloroethene	8.02	164	46295	4.817	ug/L	97
48) 2-Hexanone	8.19	43	194789	51.543	ug/L	98
49) Dibromochloromethane	8.29	129	40862	5.011	ug/L	98
50) 1,2-Dibromoethane	8.40	107	31190	4.961	ug/L	98
51) Chlorobenzene	8.93	112	138534	4.915	ug/L	99
52) Ethylbenzene	9.05	91	240297	4.890	ug/L	100
53) m,p-xylene	9.18	106	92774	4.960	ug/L	99
54) o-xylene	9.59	106	88279	4.978	ug/L	97
55) Styrene	9.60	104	151666	5.075	ug/L	98
56) Isopropylbenzene	9.97	105	242620	4.899	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	35882	4.972	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	28163	5.008	ug/L	100
61) Bromoform	9.77	173	21879	5.047	ug/L	97
62) 1,3-Dichlorobenzene	11.23	146	112407	4.866	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	113359	4.767	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	105629	4.967	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	6058	4.903	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	92838	4.805	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	76671	4.887	ug/L	100
69) Naphthalene	13.55	128	112794	4.768	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	69852	4.907	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 4.886 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

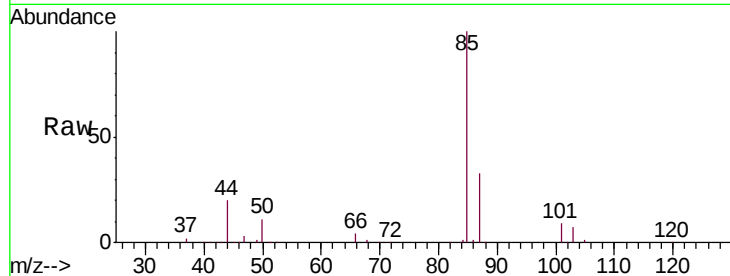
VSTD00543

Tgt Ion: 85 Resp: 70505

Ion Ratio Lower Upper

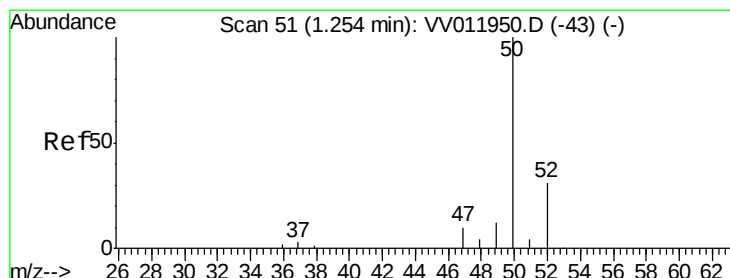
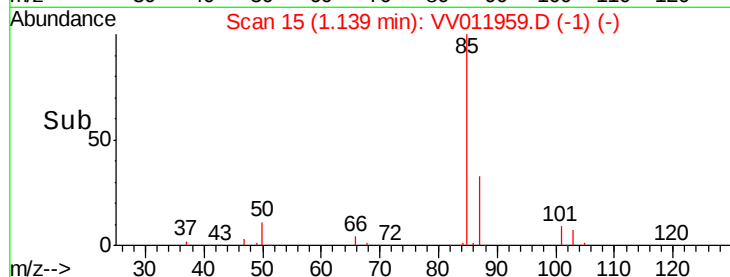
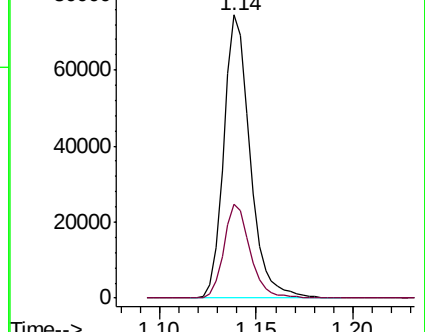
85 100

87 33.2 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV011950.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV011959.D (-1) (-)



#3

Chloromethane

Concen: 4.736 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV011959.D

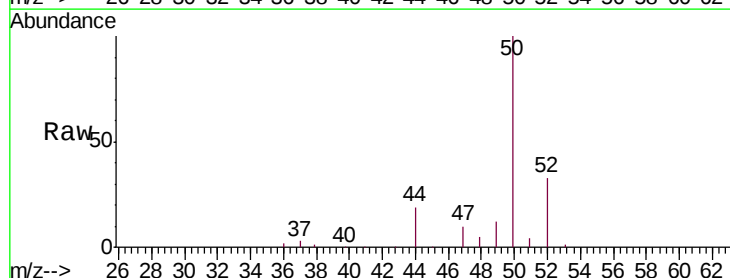
Acq: 22 Jul 2019 20:28

Tgt Ion: 50 Resp: 39659

Ion Ratio Lower Upper

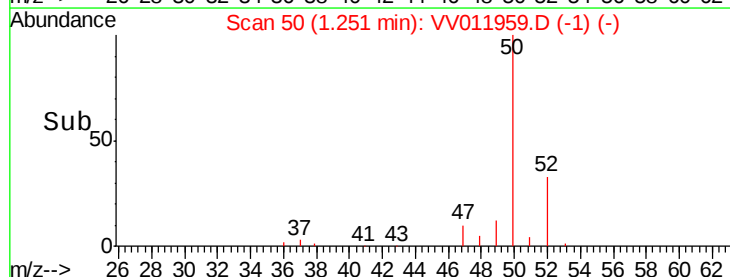
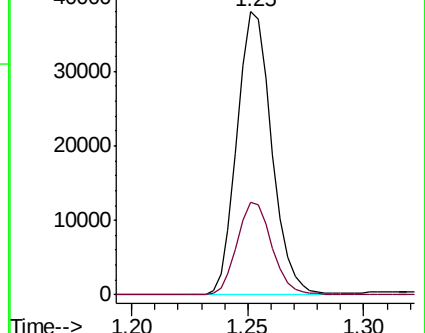
50 100

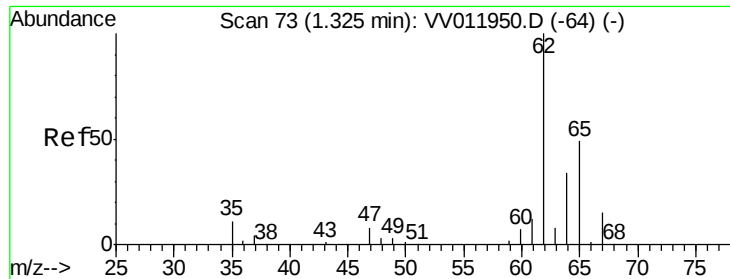
52 32.7 21.6 40.2



Abundance Ion 50.05 (49.75 to 50.75): VV011950.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV011959.D (-1) (-)





#5

Vinyl chloride

Concen: 4.780 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

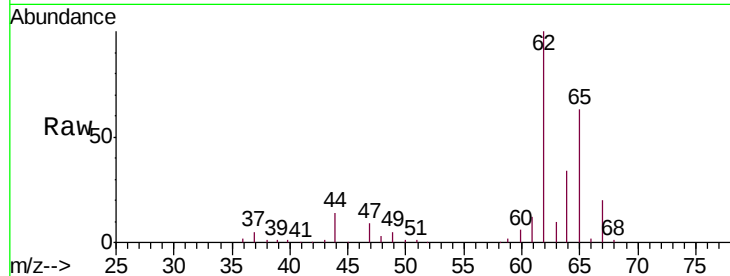
VSTD00543

Tgt Ion: 62 Resp: 40982

Ion Ratio Lower Upper

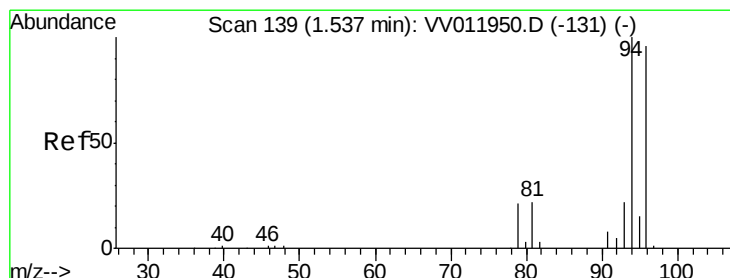
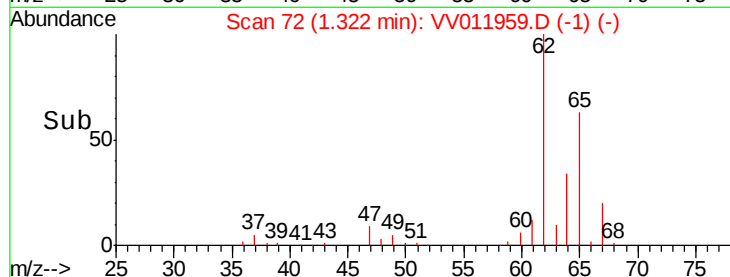
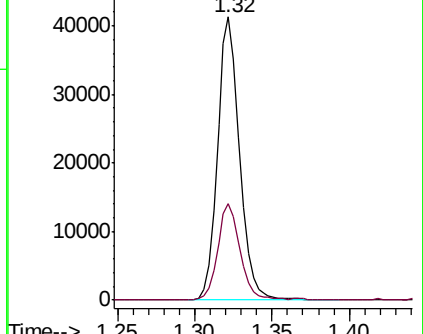
62 100

64 34.1 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: 4.954 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV011959.D

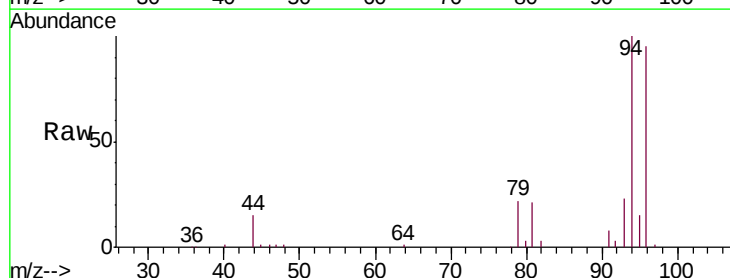
Acq: 22 Jul 2019 20:28

Tgt Ion: 94 Resp: 24981

Ion Ratio Lower Upper

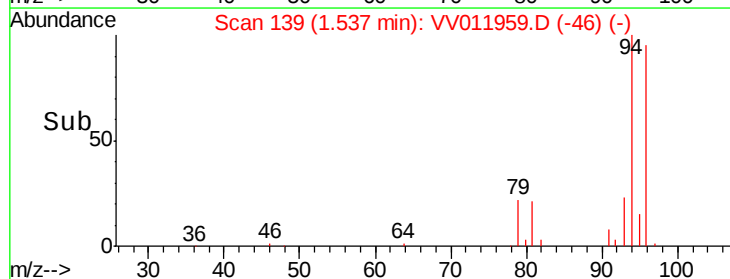
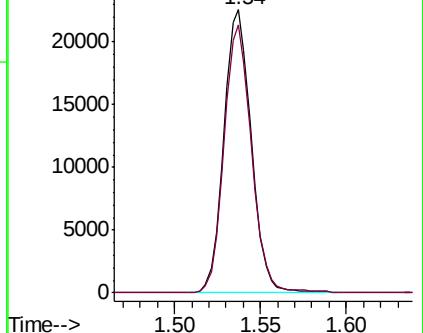
94 100

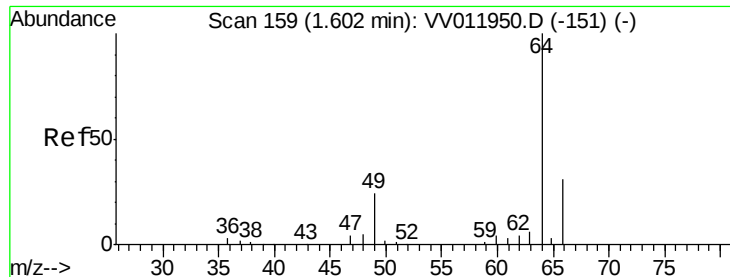
96 94.6 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 4.911 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

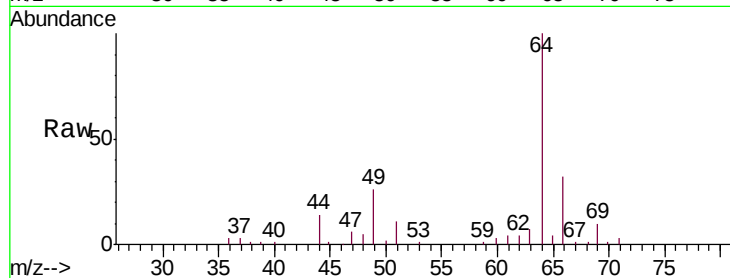
VSTD00543

Tgt Ion: 64 Resp: 24911

Ion Ratio Lower Upper

64 100

66 31.5 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VV011959.D (-151) (-)

Ion 66.05 (65.75 to 66.75): VV011959.D (-151) (-)

25000

20000

15000

10000

5000

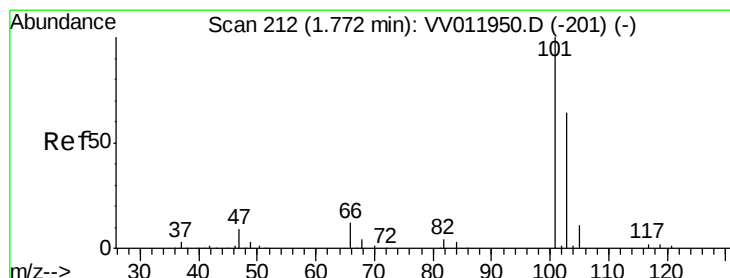
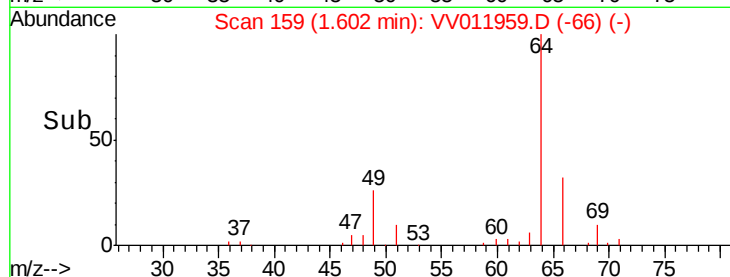
0

1.55

1.60

1.65

Time-->



#9

Trichlorofluoromethane

Concen: 5.014 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV011959.D

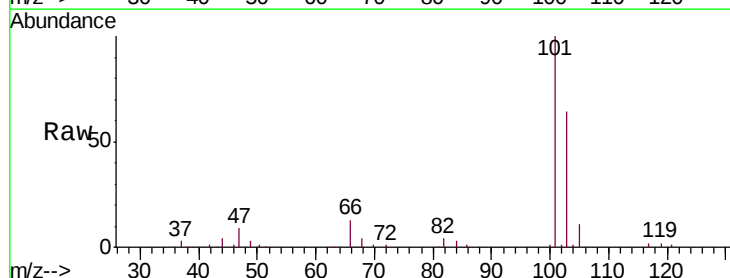
Acq: 22 Jul 2019 20:28

Tgt Ion: 101 Resp: 79246

Ion Ratio Lower Upper

101 100

103 64.3 50.4 75.6



Abundance Ion 101.00 (100.70 to 101.70): VV011959.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV011959.D (-201) (-)

60000

40000

20000

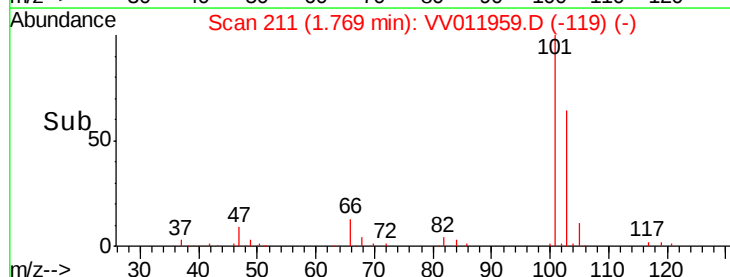
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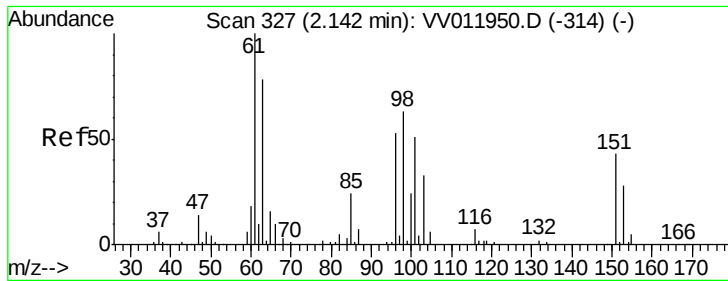
1.70

1.75

1.80

Time-->





#10

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

Concen: 4.845 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

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VSTD00543

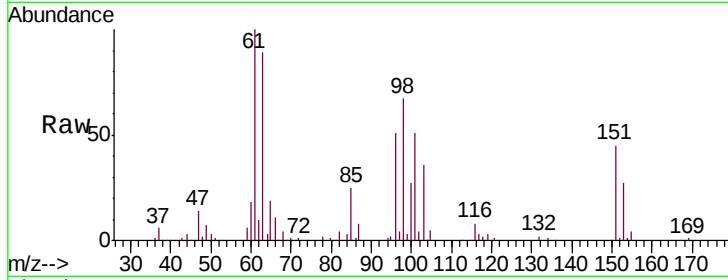
Tgt Ion:101 Resp: 34423

Ion Ratio Lower Upper

101 100

85 45.7 37.0 55.6

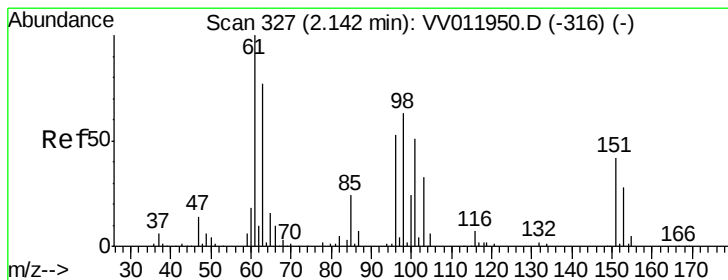
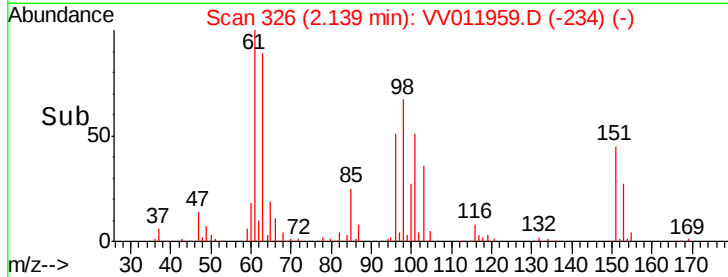
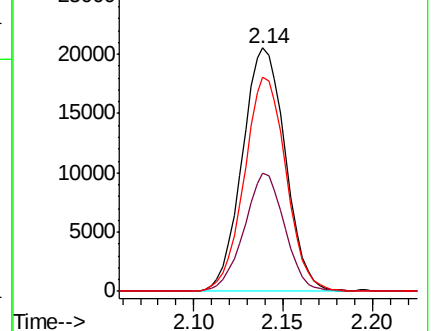
151 85.6 68.3 102.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.920 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

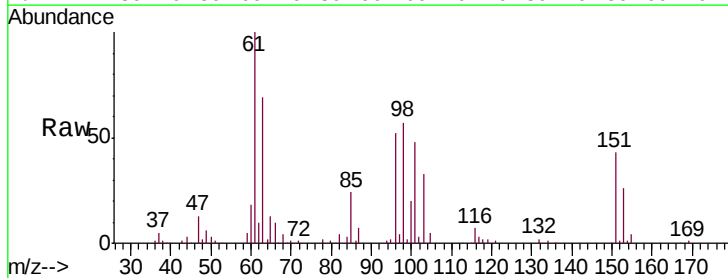
Tgt Ion: 96 Resp: 31267

Ion Ratio Lower Upper

96 100

61 190.8 132.7 246.5

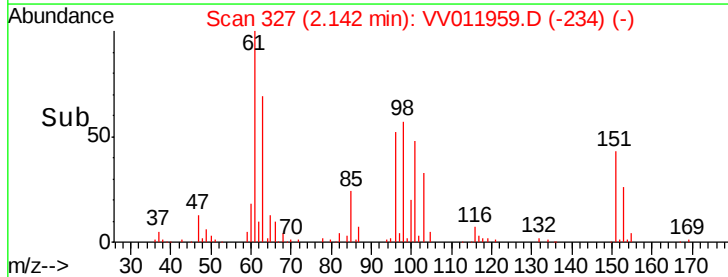
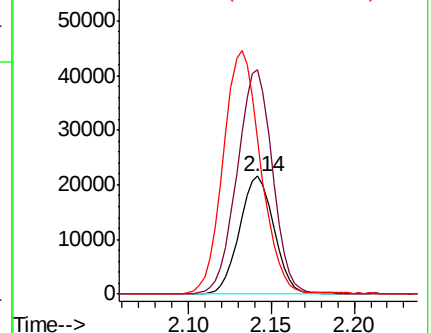
63 131.7 104.0 193.1

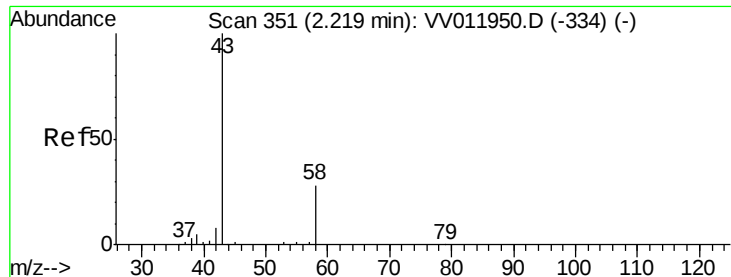


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 45.854 ug/L

RT: 2.23 min Scan# 354

Delta R.T. 0.01 min

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Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

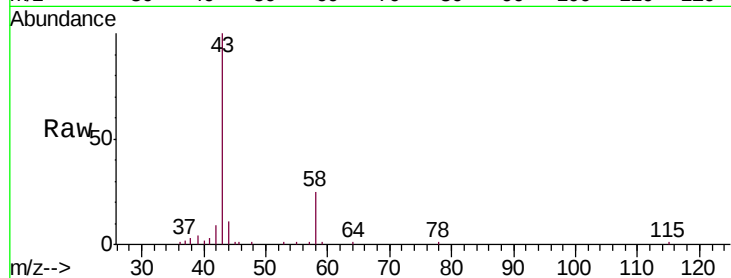
VSTD00543

Tgt Ion: 43 Resp: 52429

Ion Ratio Lower Upper

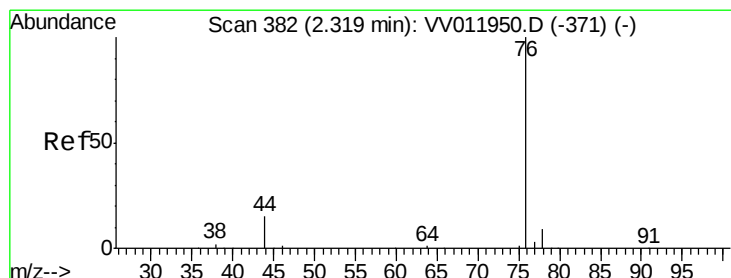
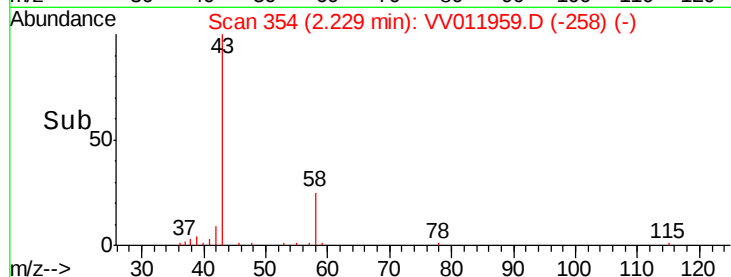
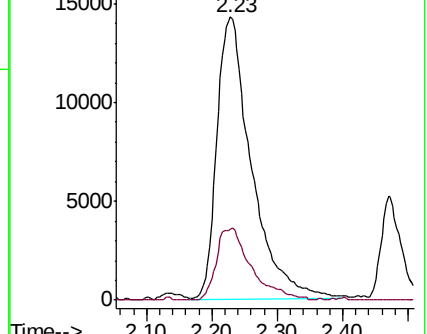
43 100

58 25.7 0.0 51.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 4.763 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV011959.D

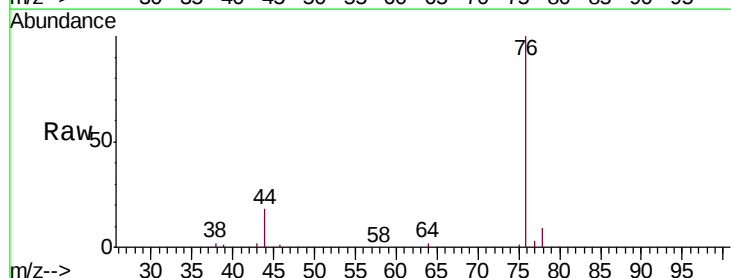
Acq: 22 Jul 2019 20:28

Tgt Ion: 76 Resp: 86258

Ion Ratio Lower Upper

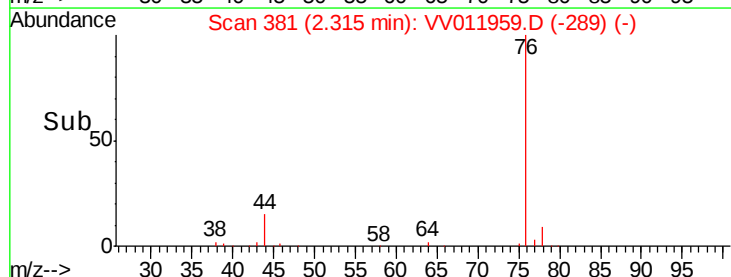
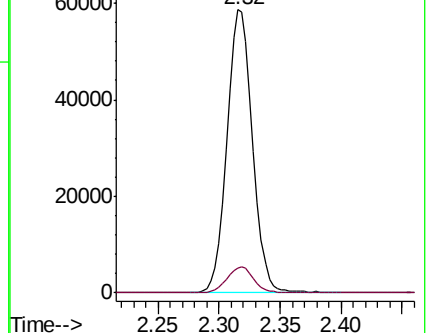
76 100

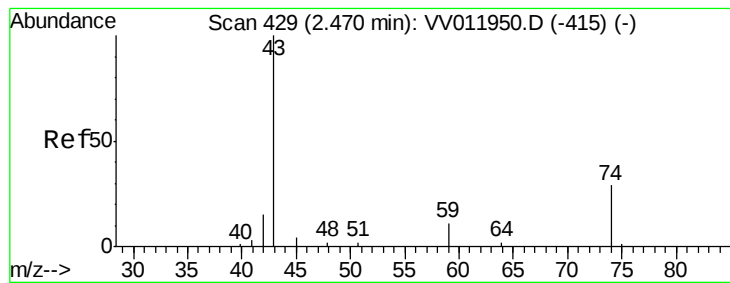
78 8.9 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0





#15

Methyl Acetate

Concen: 4.273 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

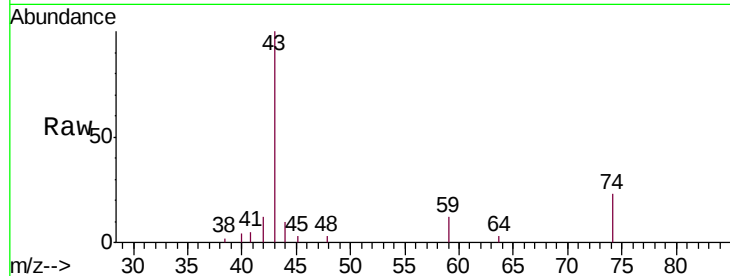
VSTD00543

Tgt Ion: 43 Resp: 10667

Ion Ratio Lower Upper

43 100

74 27.7 23.4 35.2



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

6000

5000

4000

3000

2000

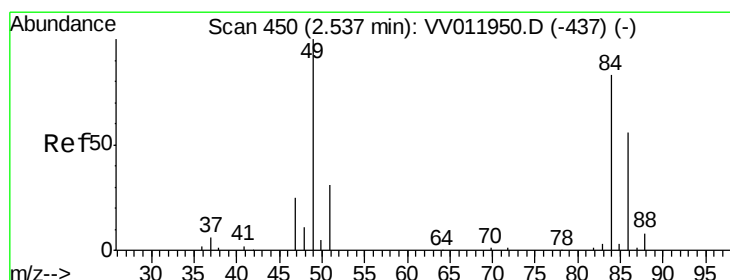
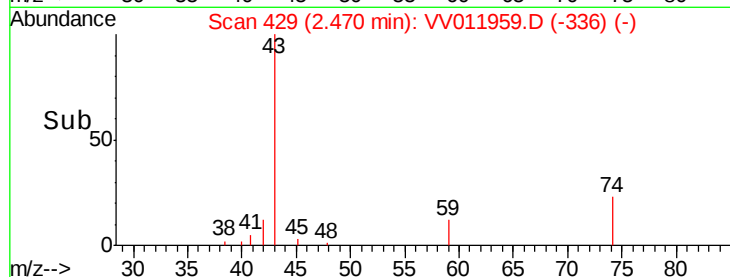
1000

0

Time-->

2.40 2.45 2.50 2.55

2.47



#16

Methylene chloride

Concen: 4.466 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

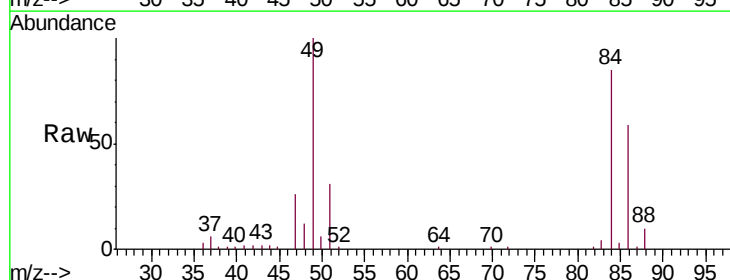
Tgt Ion: 84 Resp: 31823

Ion Ratio Lower Upper

84 100

86 68.7 47.6 88.4

49 117.3 84.3 156.5



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

30000

25000

20000

15000

10000

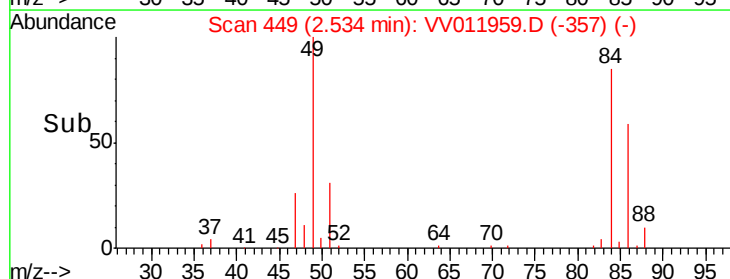
5000

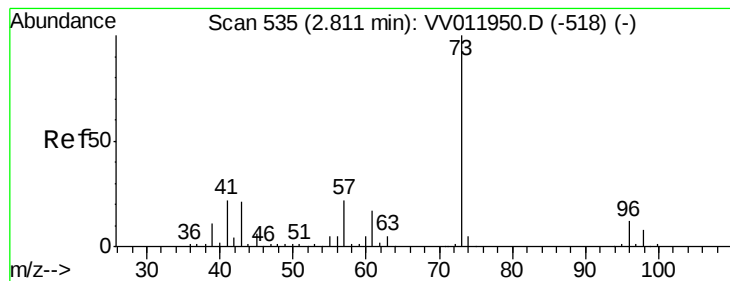
0

Time-->

2.45 2.50 2.55 2.60

2.53





#17

Methyl tert-butyl Ether

Concen: 4.982 ug/L

RT: 2.81 min Scan# 535

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD00543

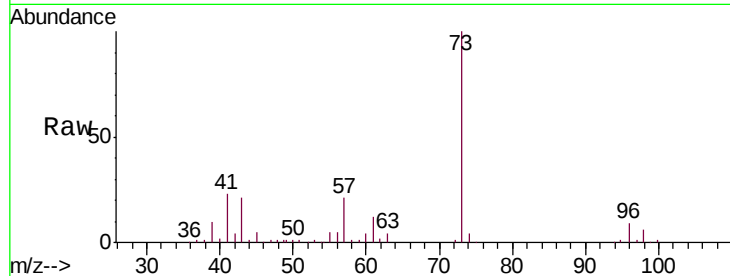
Tgt Ion: 73 Resp: 108027

Ion Ratio Lower Upper

73 100

43 21.4 17.0 25.4

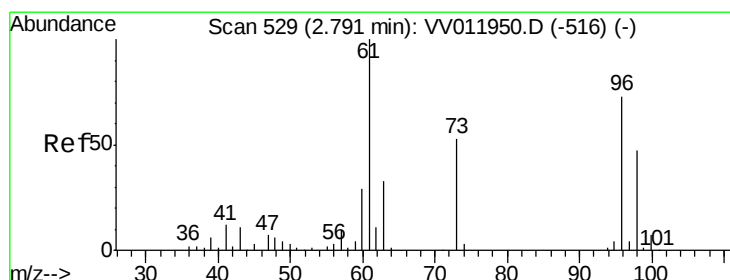
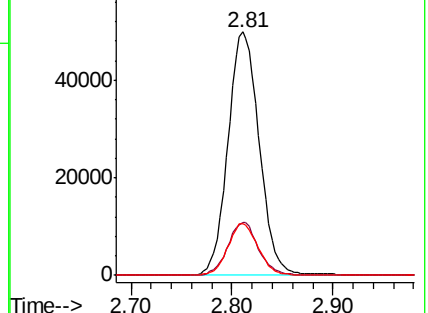
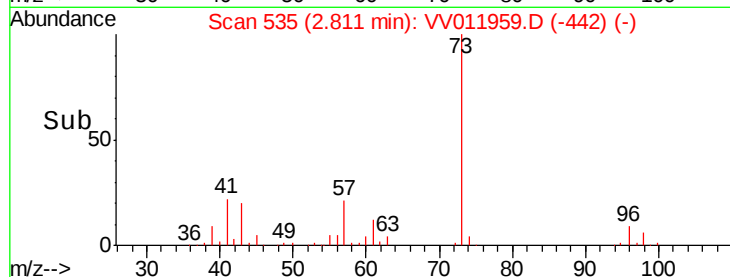
57 20.7 17.0 25.6



Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0



#18

trans-1,2-Dichloroethene

Concen: 4.912 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

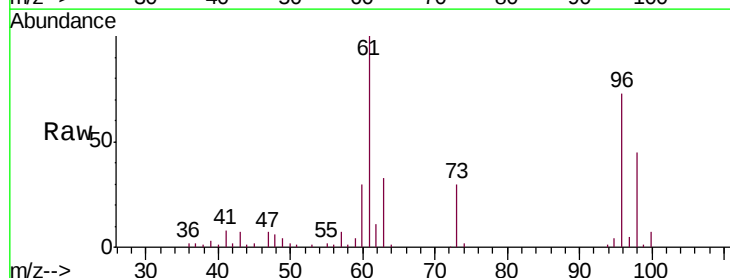
Tgt Ion: 96 Resp: 48610

Ion Ratio Lower Upper

96 100

61 137.7 95.4 177.2

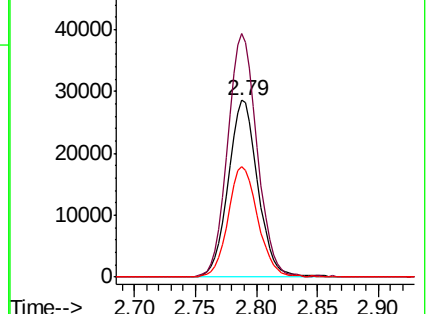
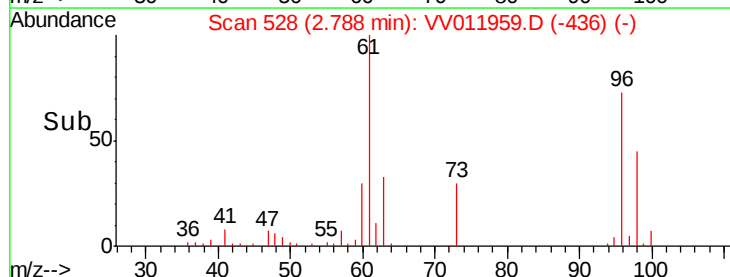
98 62.4 44.4 82.5

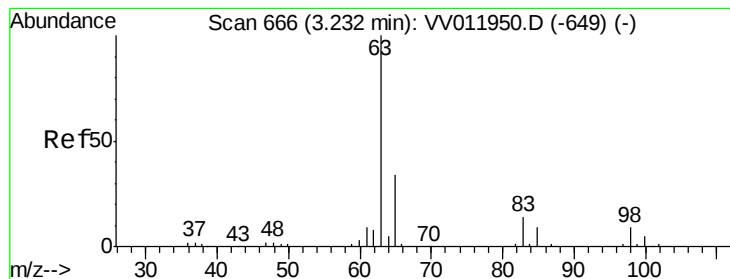


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 4.944 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampled :

VSTD00543

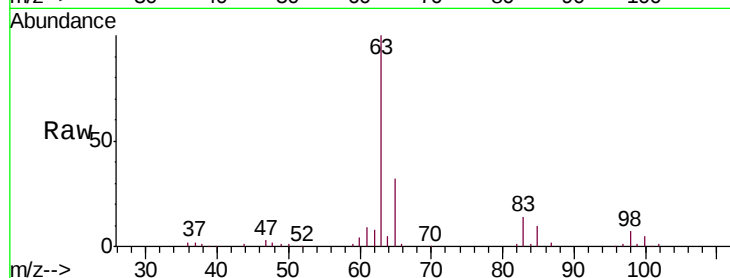
Tgt Ion: 63 Resp: 86404

Ion Ratio Lower Upper

63 100

65 32.0 23.5 43.7

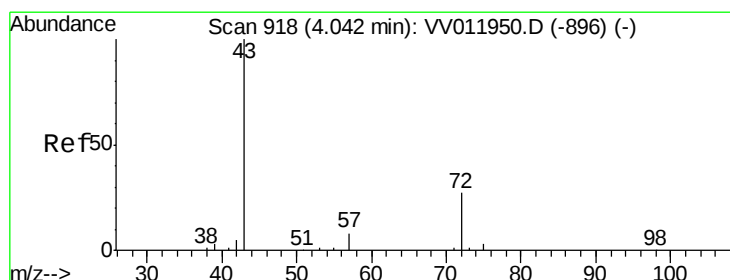
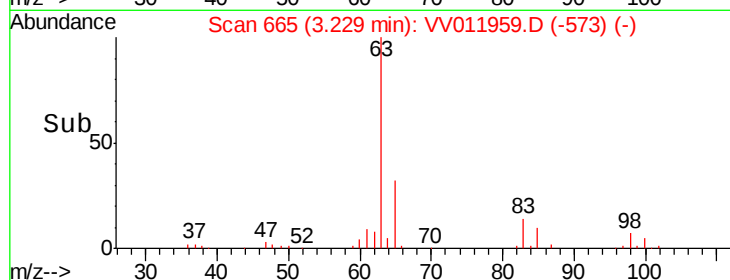
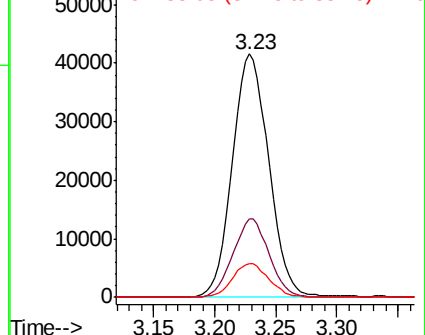
83 13.9 9.7 18.1



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 52.615 ug/L

RT: 4.05 min Scan# 921

Delta R.T. 0.01 min

Lab File: VV011959.D

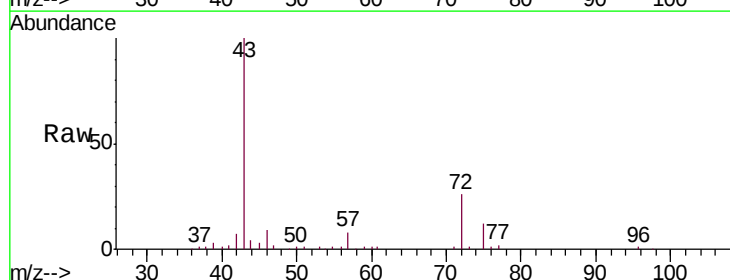
Acq: 22 Jul 2019 20:28

Tgt Ion: 43 Resp: 115407

Ion Ratio Lower Upper

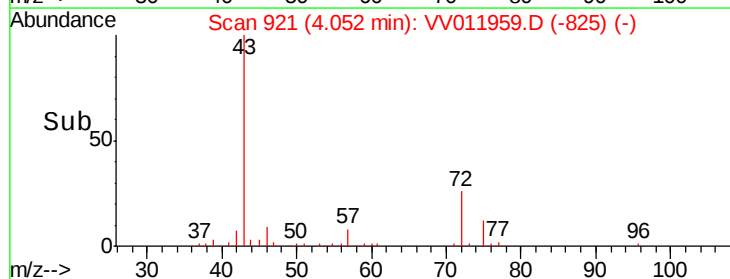
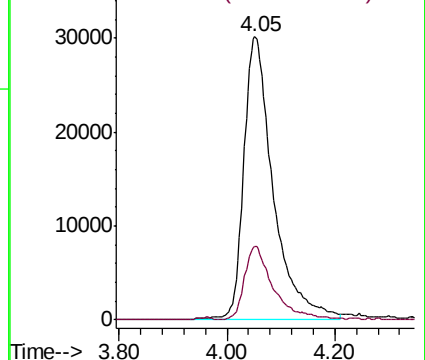
43 100

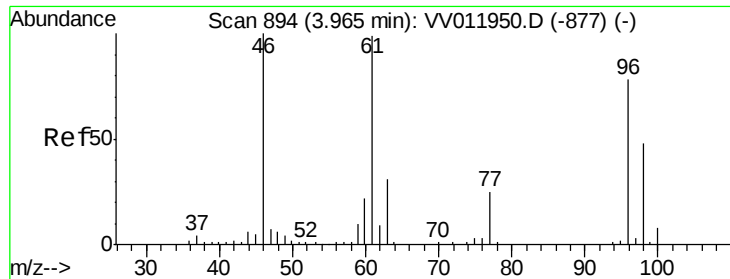
72 24.9 13.6 40.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 72.10 (71.80 to 72.80): VV0



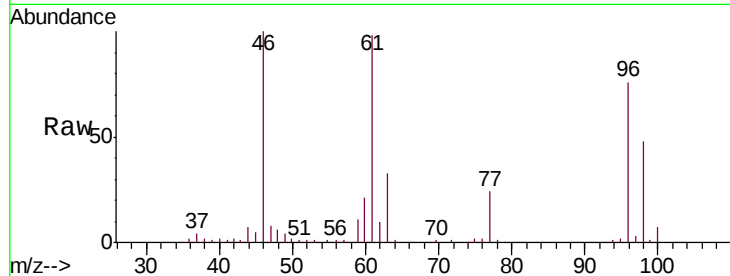


#22

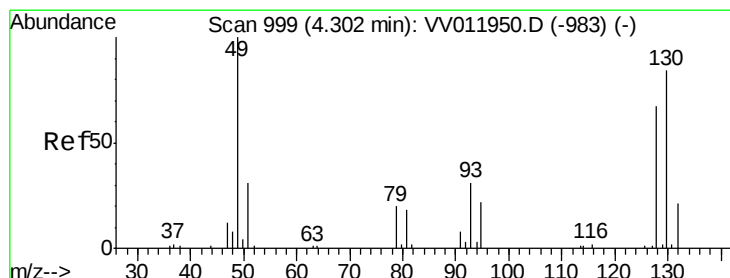
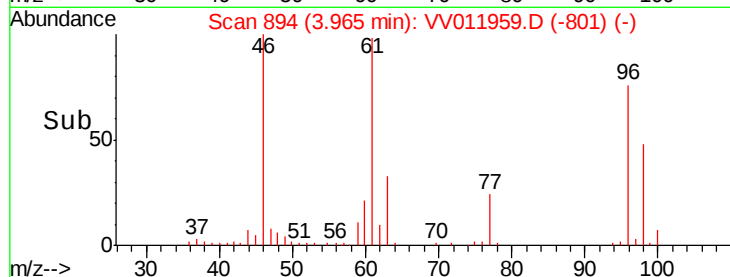
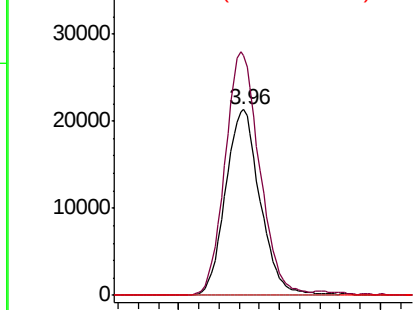
cis-1,2-Dichloroethene
Concen: 4.791 ug/L
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VV011959.D
Acq: 22 Jul 2019 20:28

Instrument :
MSVOA_V
ClientSampleId :
VSTD00543

Tgt Ion: 96 Resp: 50947
Ion Ratio Lower Upper
96 100
61 129.1 89.0 165.2
68 0.0 0.0 0.0



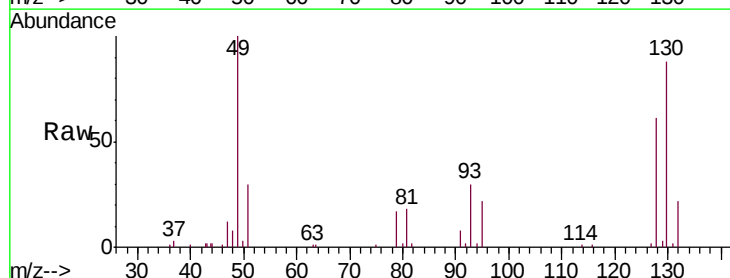
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



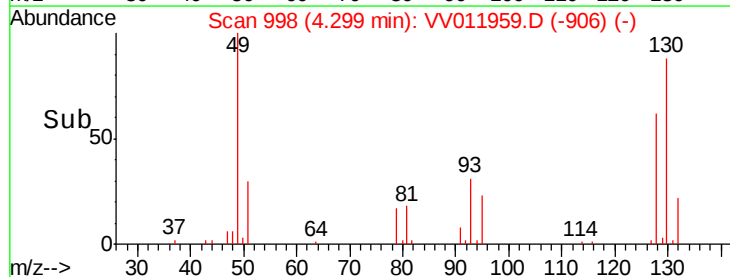
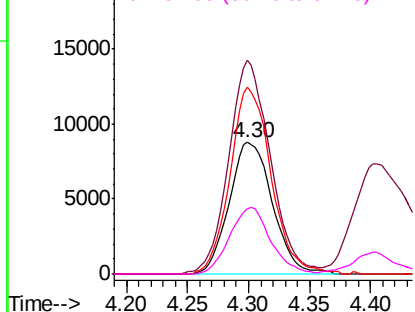
#23

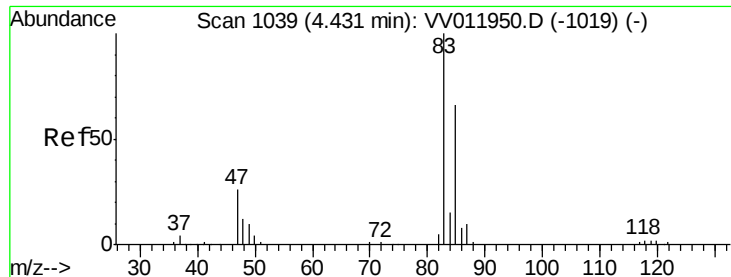
Bromochloromethane
Concen: 4.937 ug/L
RT: 4.30 min Scan# 998
Delta R.T. -0.00 min
Lab File: VV011959.D
Acq: 22 Jul 2019 20:28

Tgt Ion: 128 Resp: 21584
Ion Ratio Lower Upper
128 100
49 162.7 105.5 195.9
130 142.5 88.4 164.2
51 49.6 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

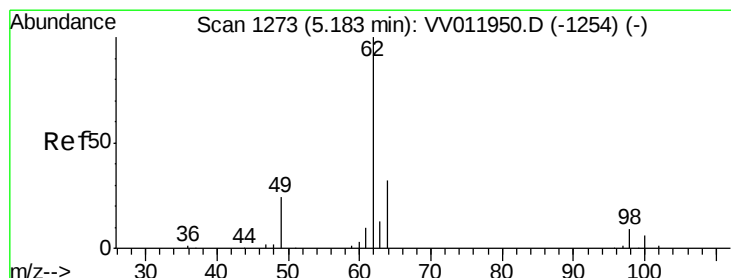
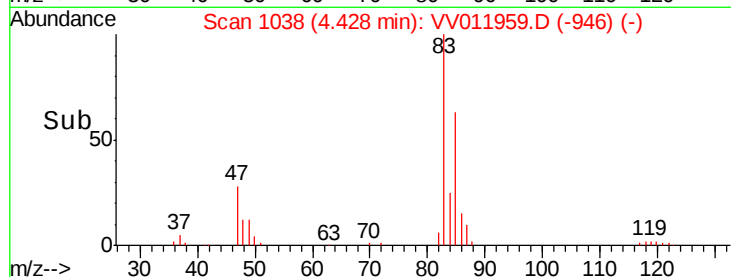
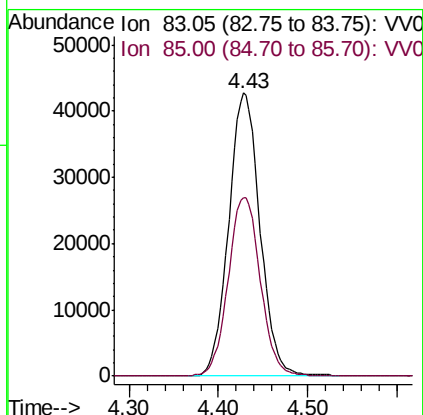
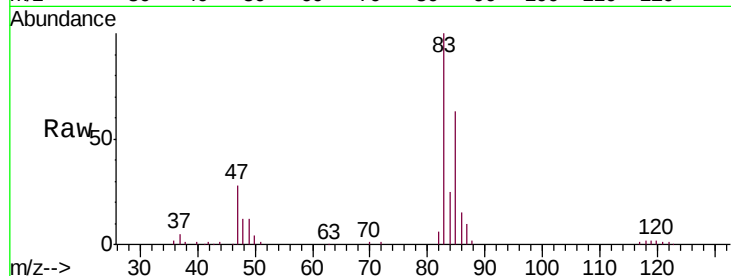




#25
Chloroform
Concen: 4.913 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV011959.D
Acq: 22 Jul 2019 20:28

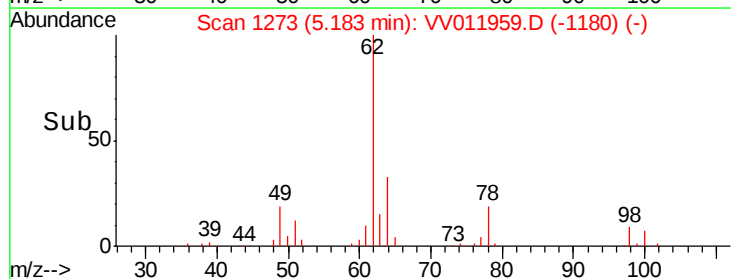
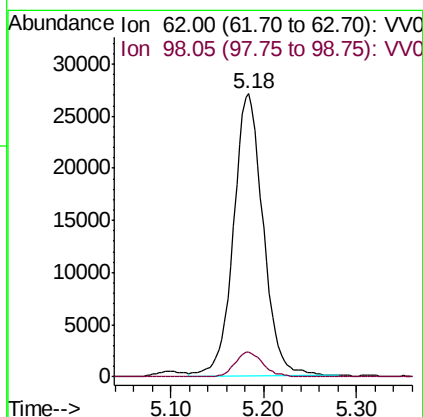
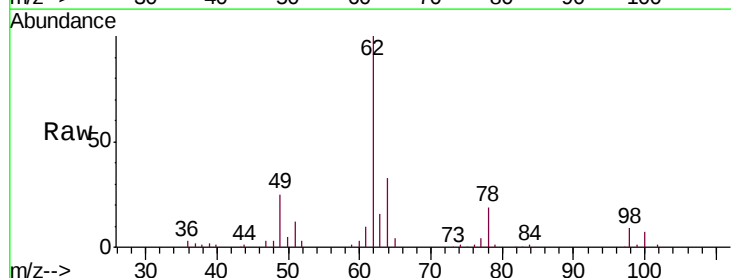
Instrument :
MSVOA_V
ClientSampleId :
VSTD00543

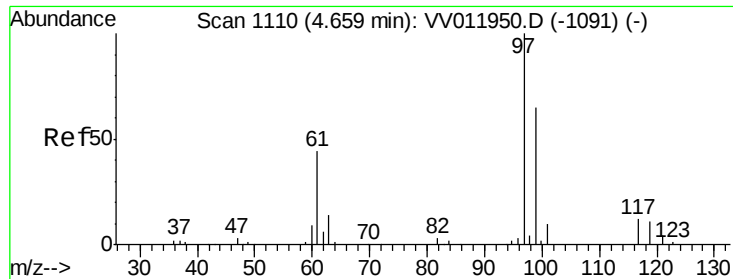
Tgt Ion: 83 Resp: 103710
Ion Ratio Lower Upper
83 100
85 63.2 46.5 86.3



#27
1,2-Dichloroethane
Concen: 5.124 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VV011959.D
Acq: 22 Jul 2019 20:28

Tgt Ion: 62 Resp: 60138
Ion Ratio Lower Upper
62 100
98 8.8 7.0 10.6

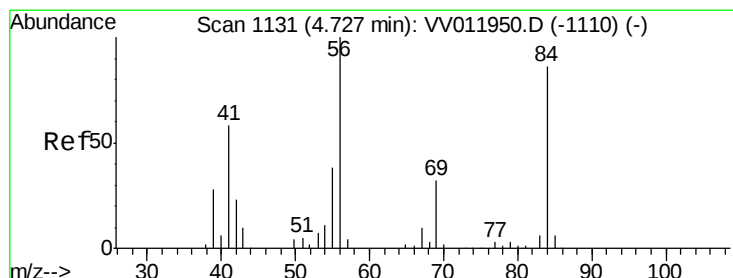
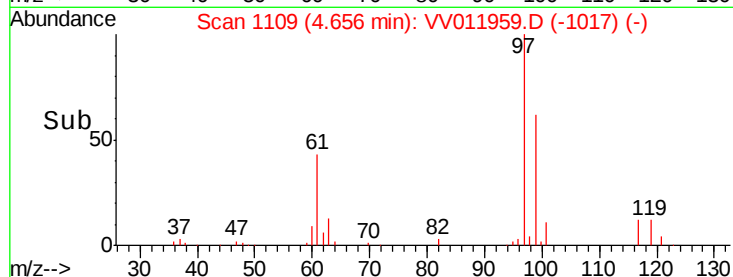
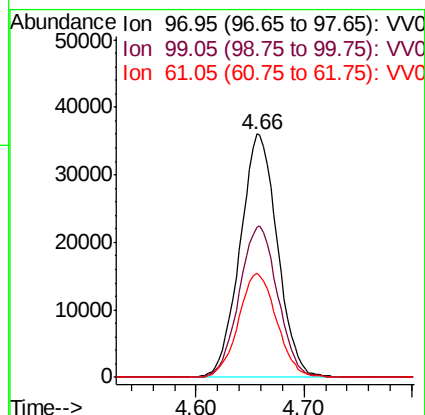
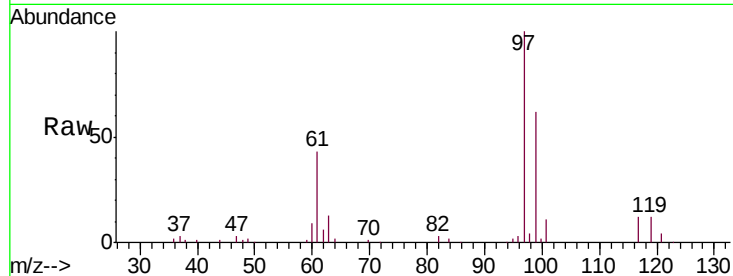




#29
 1,1,1-Trichloroethane
 Concen: 4.978 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. -0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

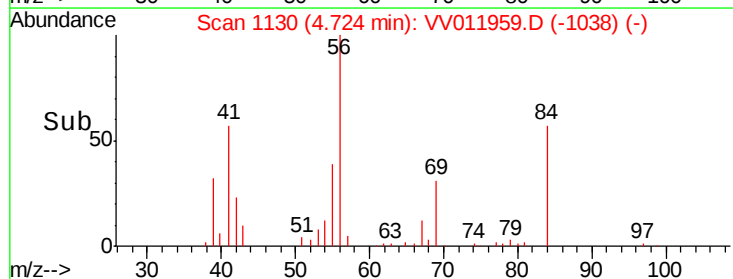
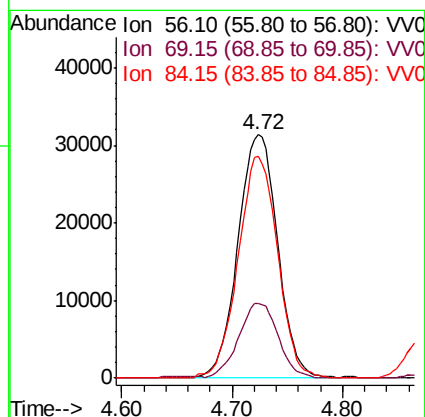
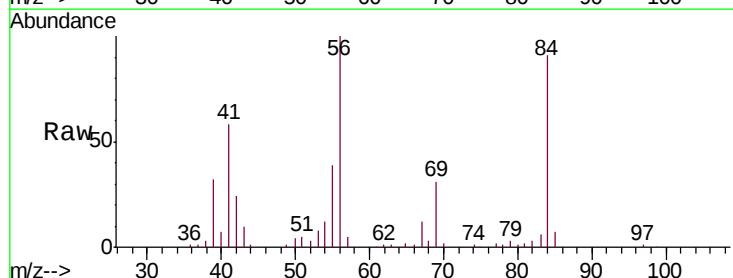
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00543

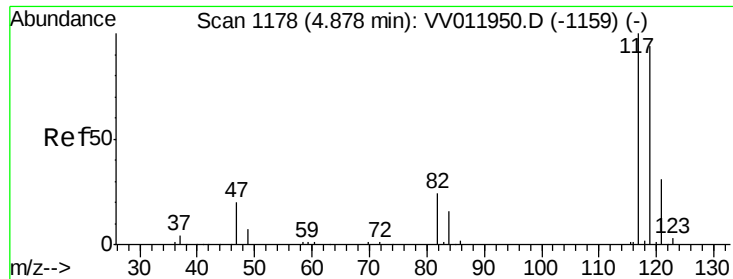
Tgt Ion: 97 Resp: 86870
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.7 77.5
 61 43.8 35.1 52.7



#30
 Cyclohexane
 Concen: 4.747 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

Tgt Ion: 56 Resp: 78261
 Ion Ratio Lower Upper
 56 100
 69 30.6 25.4 38.2
 84 90.8 73.4 110.0





#31

Carbon tetrachloride

Concen: 4.910 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

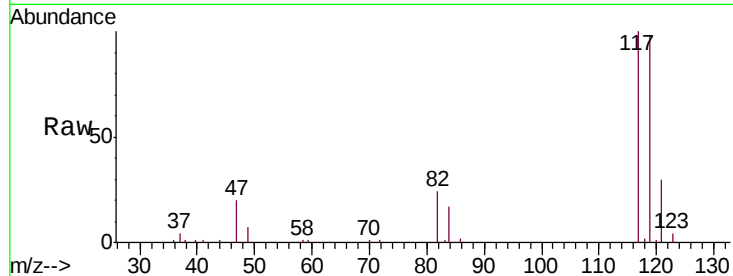
VSTD00543

Tgt Ion:117 Resp: 77134

Ion Ratio Lower Upper

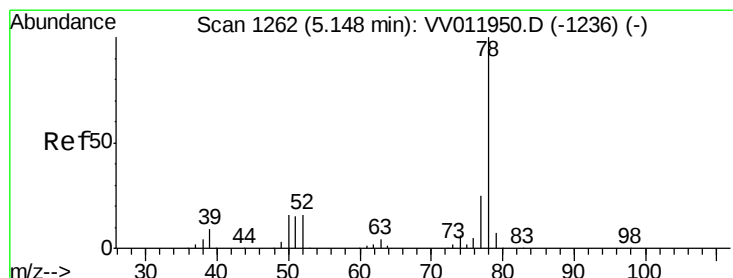
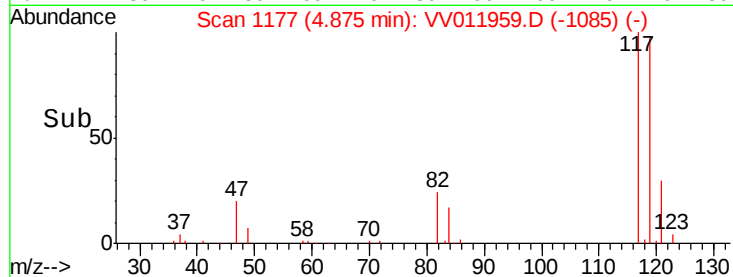
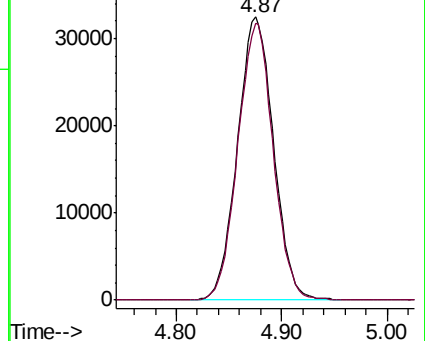
117 100

119 95.7 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: 4.911 ug/L

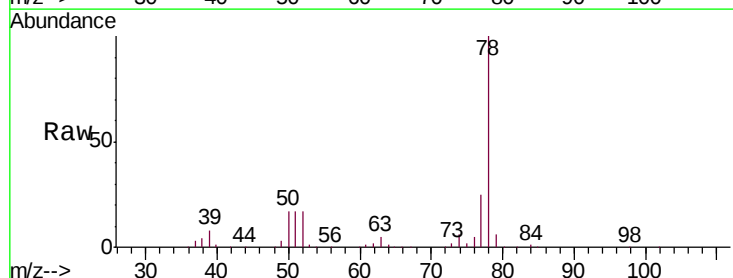
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

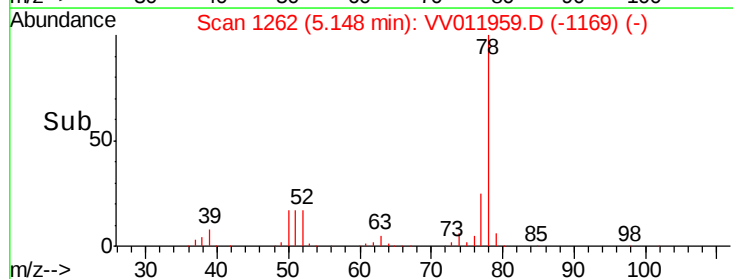
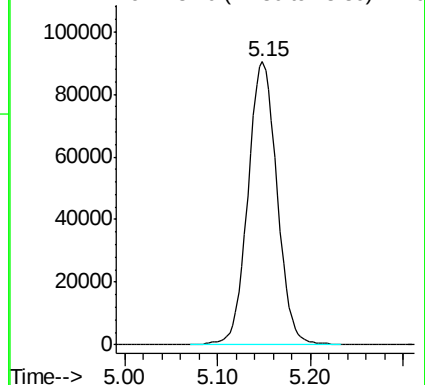
Lab File: VV011959.D

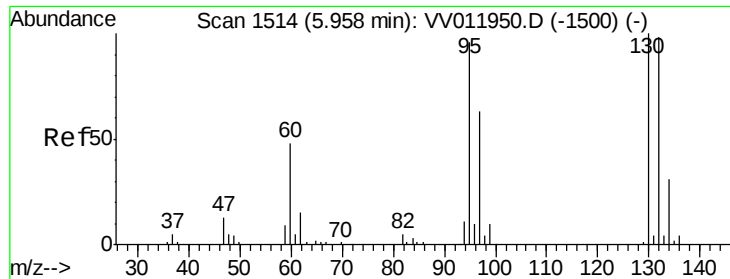
Acq: 22 Jul 2019 20:28

Tgt Ion: 78 Resp: 196944



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.726 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD00543

Tgt Ion: 95 Resp: 52634

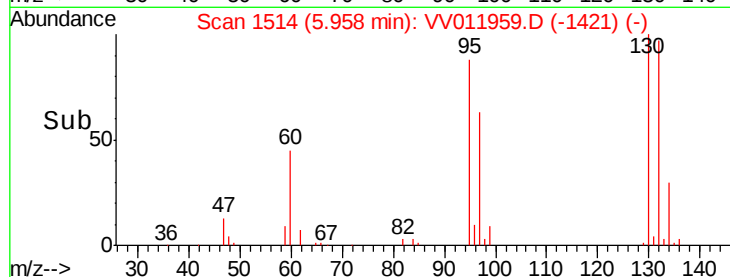
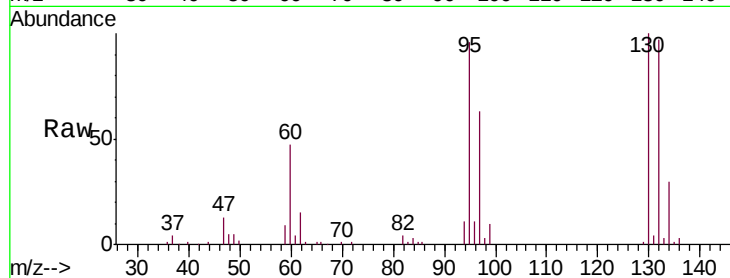
Ion Ratio Lower Upper

95 100

97 65.7 45.6 84.6

132 101.3 71.3 132.3

130 104.3 72.8 135.2

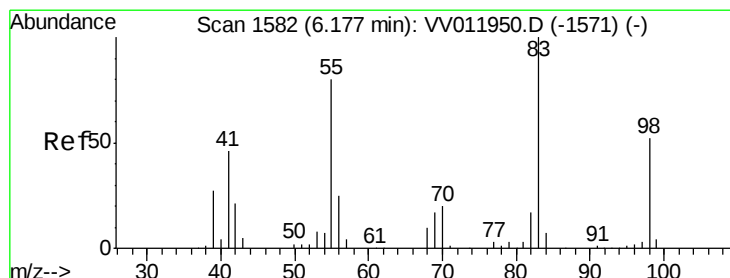
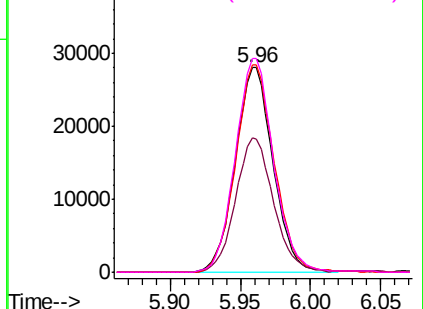


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.825 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

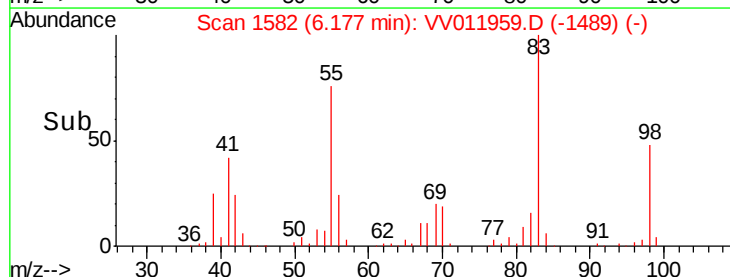
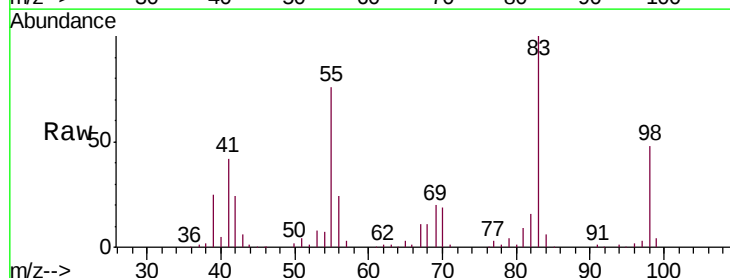
Tgt Ion: 83 Resp: 83635

Ion Ratio Lower Upper

83 100

55 77.8 63.0 94.4

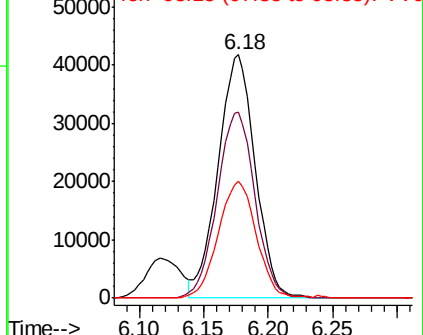
98 48.9 41.4 62.0

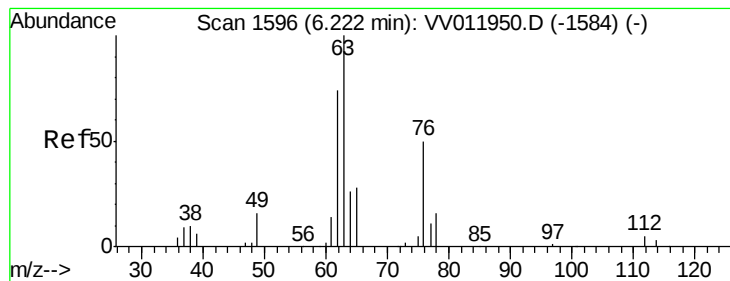


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 4.798 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

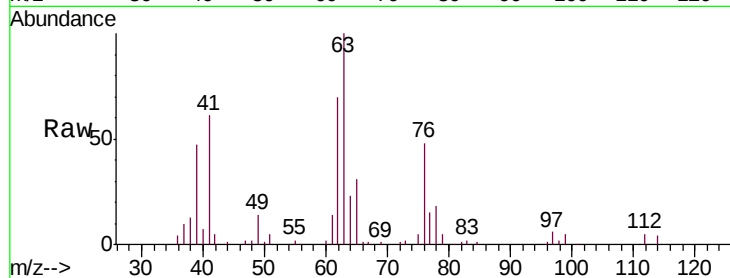
VSTD00543

Tgt Ion: 63 Resp: 46258

Ion Ratio Lower Upper

63 100

112 4.7 4.2 6.4



Abundance Ion 63.10 (62.80 to 63.80): VV011950.D (-1584) (-)

Ion 112.10 (111.80 to 112.80): VV011950.D (-1584) (-)

6.22

25000

20000

15000

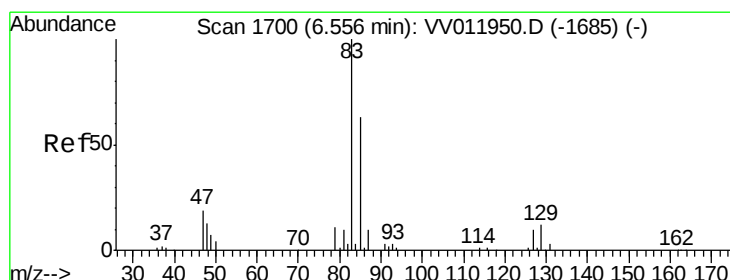
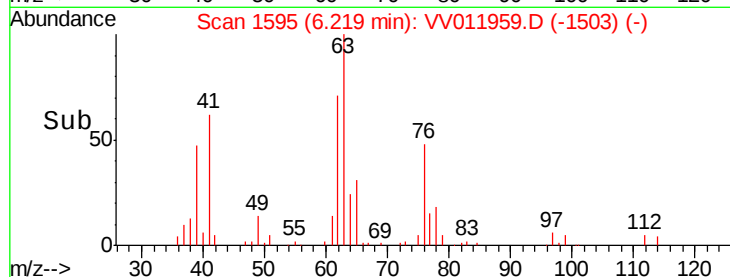
10000

5000

0

6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 4.712 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

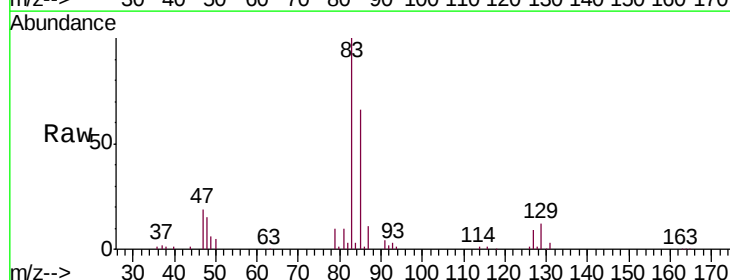
Tgt Ion: 83 Resp: 60701

Ion Ratio Lower Upper

83 100

85 66.4 44.4 82.4

127 9.2 7.9 11.9



Abundance Ion 82.95 (82.65 to 83.65): VV011950.D (-1685) (-)

Ion 85.00 (84.70 to 85.70): VV011950.D (-1685) (-)

Ion 126.90 (126.60 to 127.60): VV011950.D (-1685) (-)

6.56

40000

30000

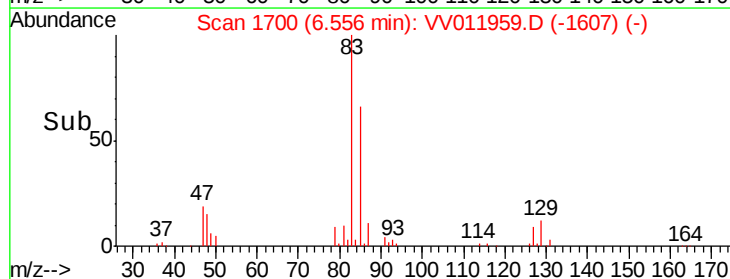
20000

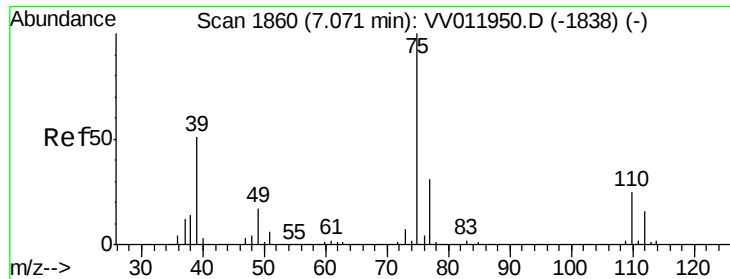
10000

0

6.45 6.50 6.55 6.60 6.65

Time-->

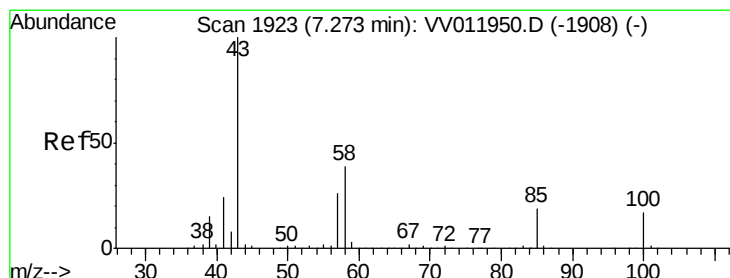
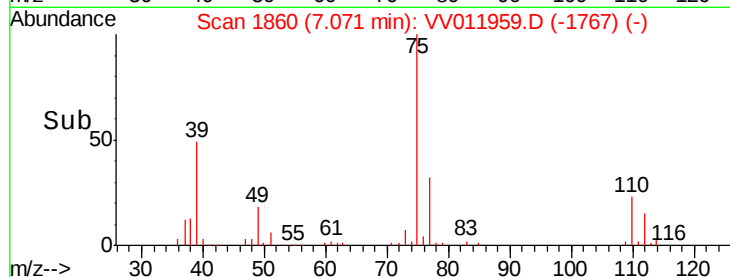
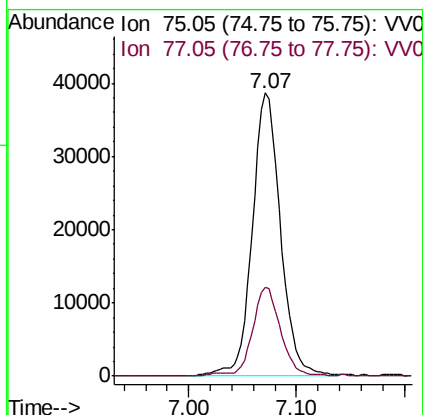
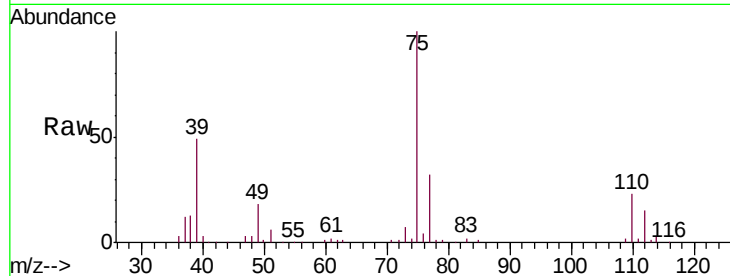




#39
 cis-1,3-Dichloropropene
 Concen: 4.926 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

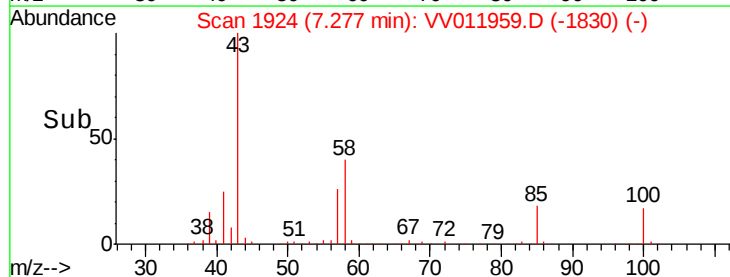
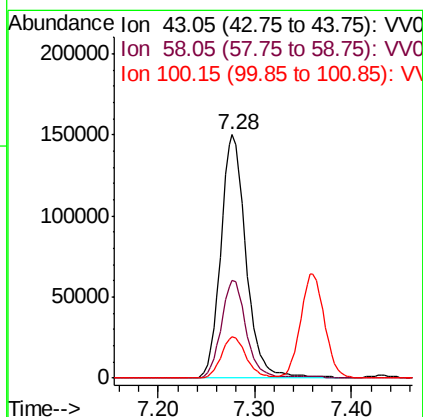
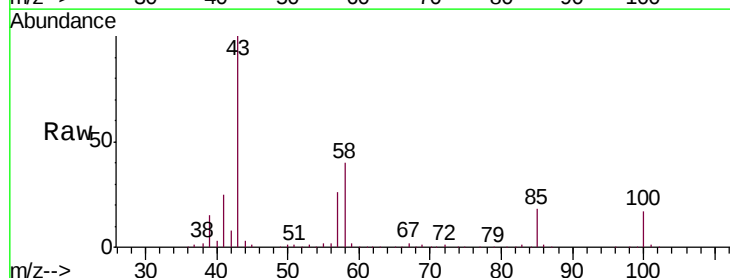
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00543

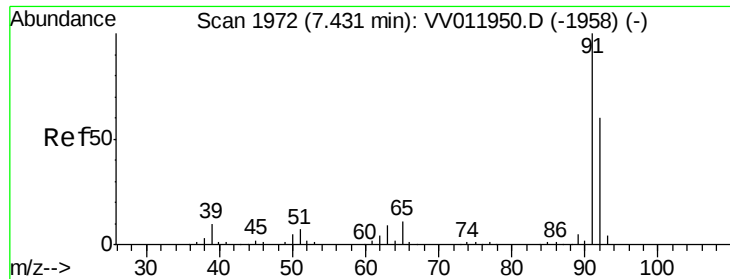
Tgt Ion: 75 Resp: 70402
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.3 39.6



#40
 4-Methyl-2-pentanone
 Concen: 50.555 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

Tgt Ion: 43 Resp: 272349
 Ion Ratio Lower Upper
 43 100
 58 39.3 31.2 46.8
 100 16.8 13.5 20.3





#42

Toluene

Concen: 4.987 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

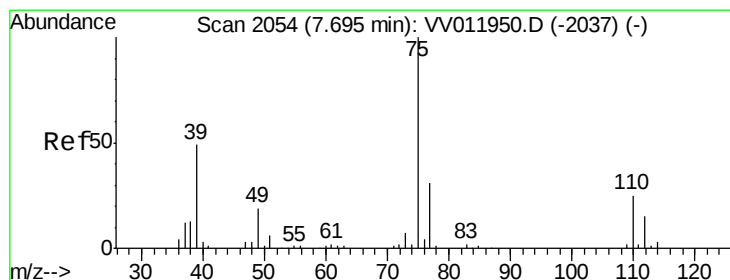
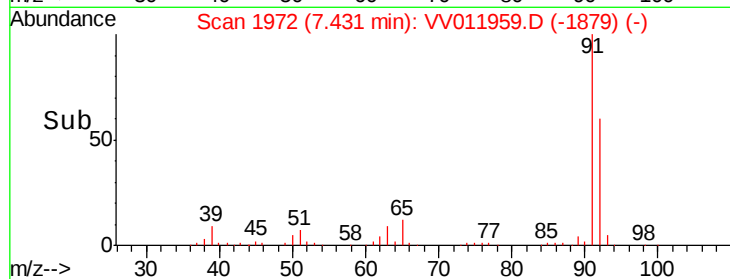
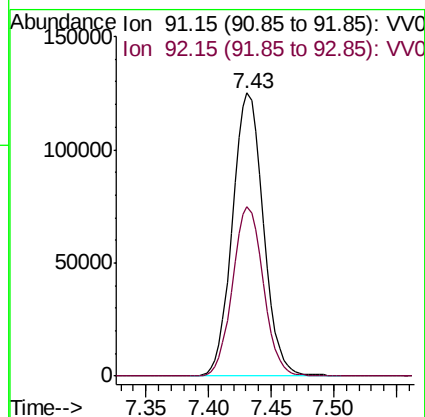
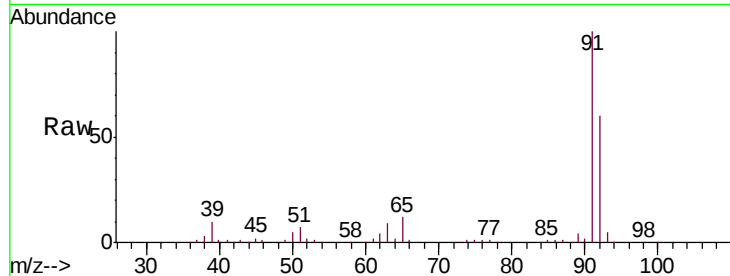
VSTD00543

Tgt Ion: 91 Resp: 214666

Ion Ratio Lower Upper

91 100

92 59.7 41.9 77.9



#44

trans-1,3-Dichloropropene

Concen: 4.838 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV011959.D

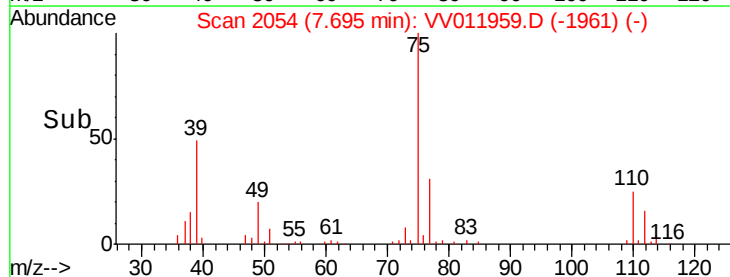
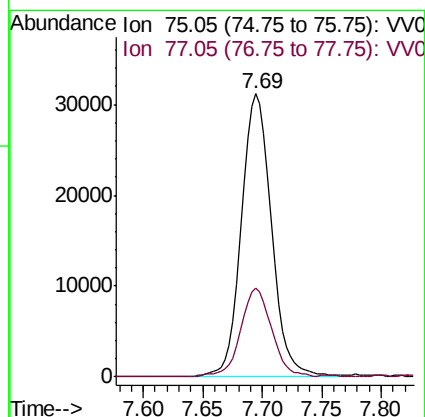
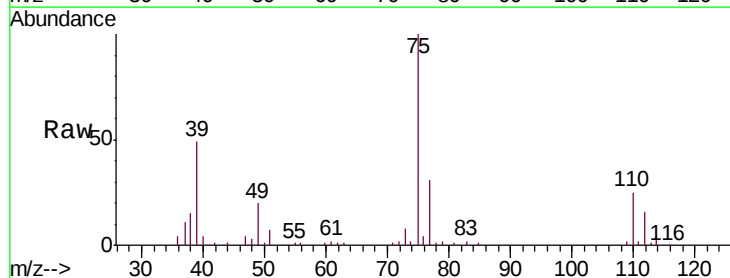
Acq: 22 Jul 2019 20:28

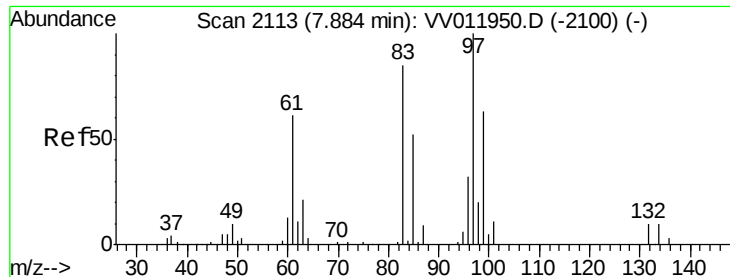
Tgt Ion: 75 Resp: 54989

Ion Ratio Lower Upper

75 100

77 31.5 22.0 40.8

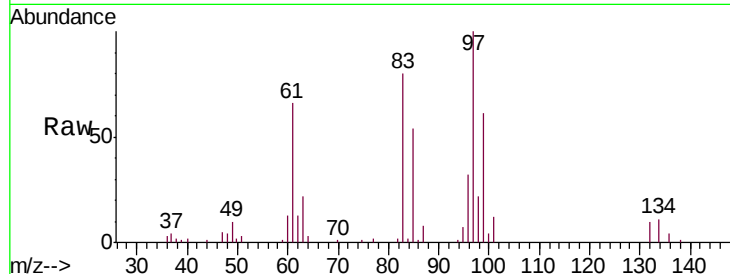




#45
 1,1,2-Trichloroethane
 Concen: 4.974 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00543

Tgt Ion:	97	Resp:	33121
Ion	Ratio	Lower	Upper
97	100		
99	61.2	44.0	81.8
83	80.5	59.5	110.5
85	53.5	36.6	68.0



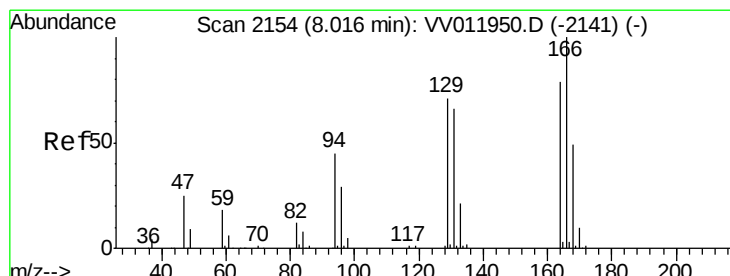
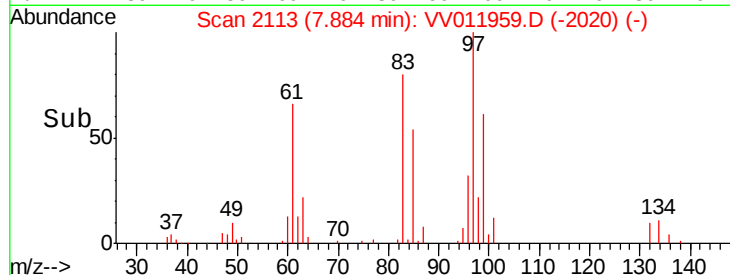
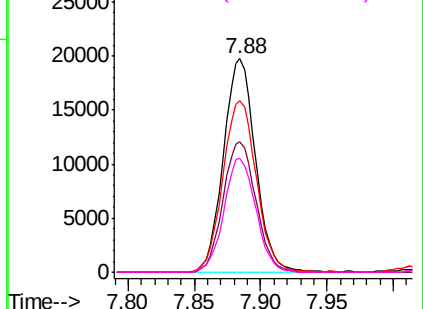
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

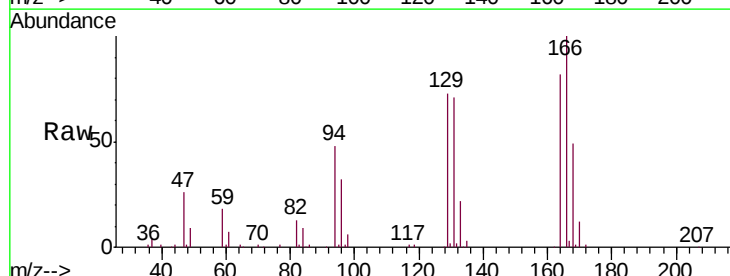
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47
 Tetrachloroethene
 Concen: 4.817 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

Tgt Ion:	164	Resp:	46295
Ion	Ratio	Lower	Upper
164	100		
129	89.0	62.5	116.1
131	86.9	58.6	108.8
166	121.5	88.2	163.8



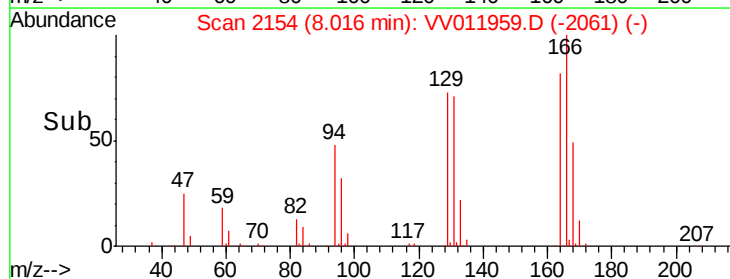
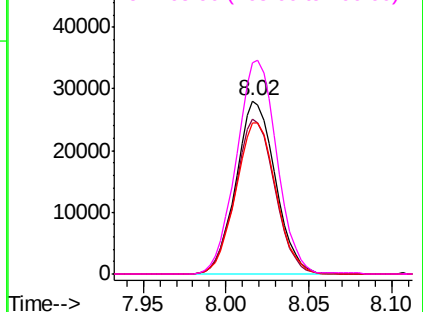
Abundance

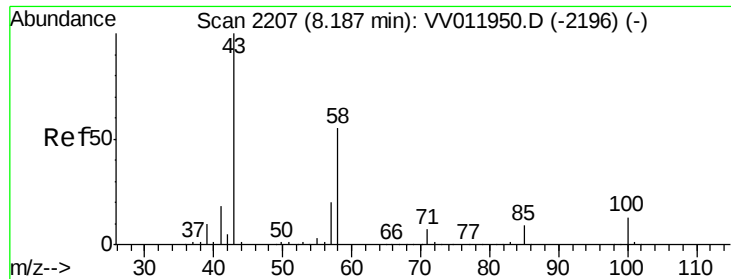
Ion 163.90 (163.60 to 164.60): V

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

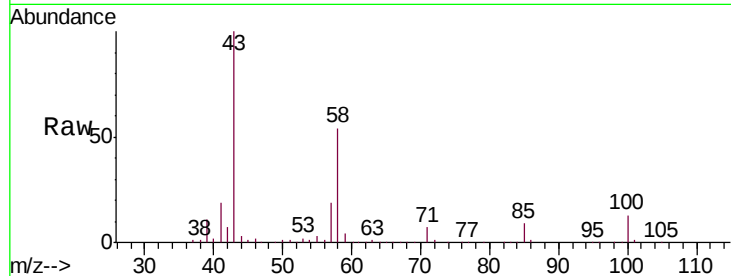




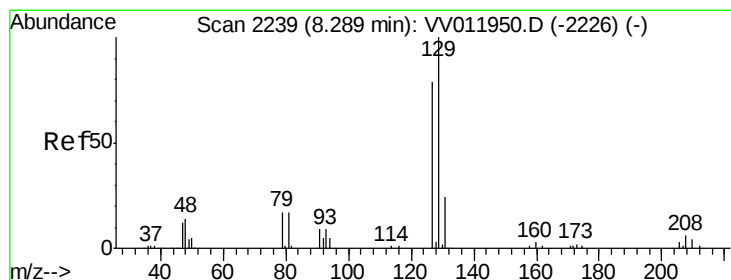
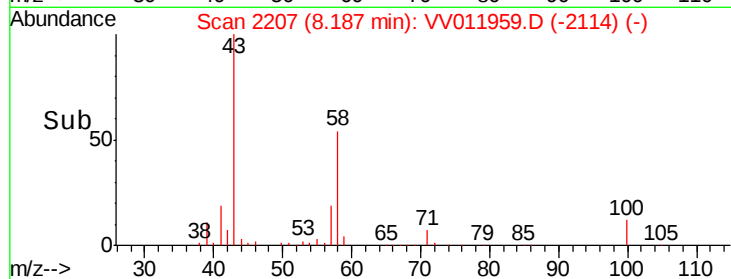
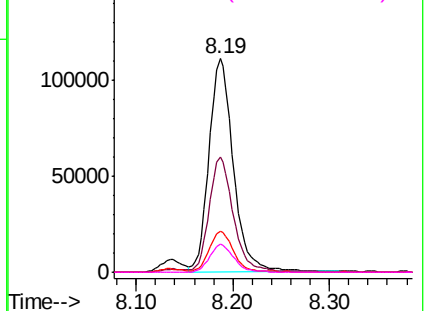
#48
2-Hexanone
Concen: 51.543 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV011959.D
Acq: 22 Jul 2019 20:28

Instrument :
MSVOA_V
ClientSampleId :
VSTD00543

Tgt Ion: 43 Resp: 194789
Ion Ratio Lower Upper
43 100
58 52.8 43.7 65.5
57 18.8 16.0 24.0
100 13.0 10.5 15.7

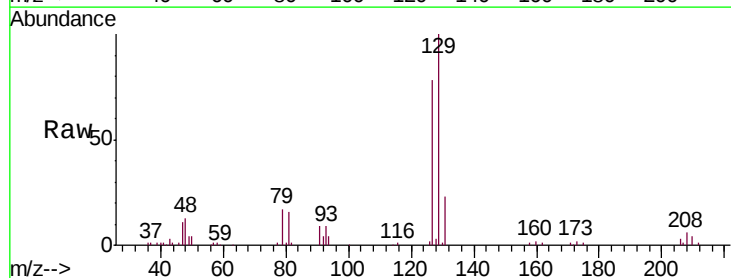


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

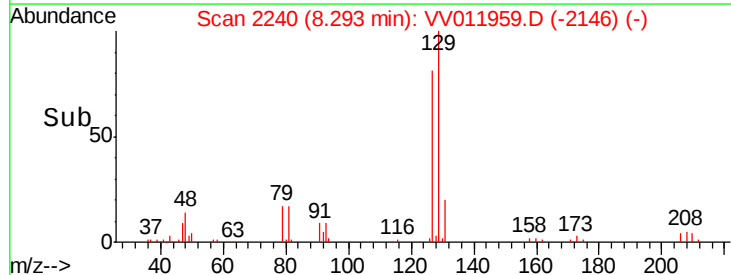
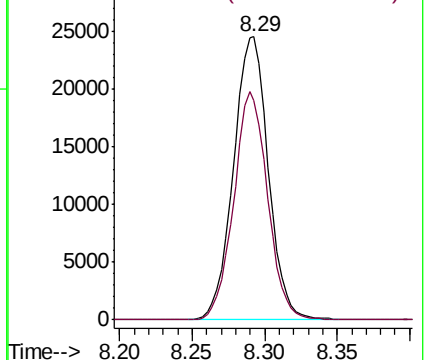


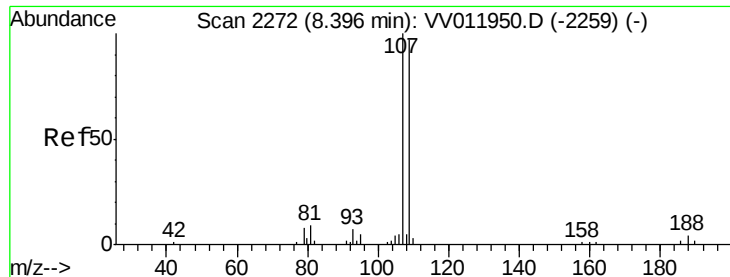
#49
Dibromochloromethane
Concen: 5.011 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV011959.D
Acq: 22 Jul 2019 20:28

Tgt Ion: 129 Resp: 40862
Ion Ratio Lower Upper
129 100
127 77.6 55.3 102.7



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

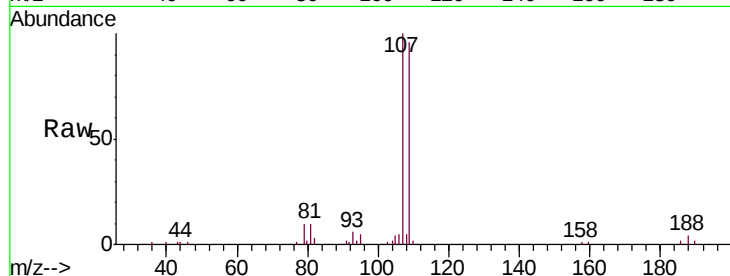




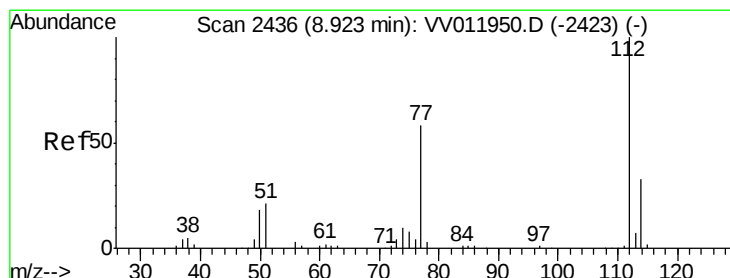
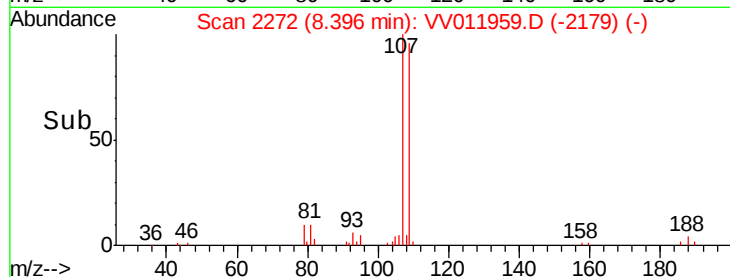
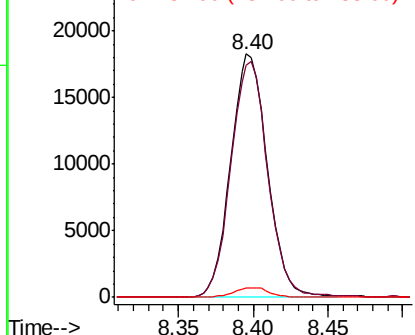
#50
1,2-Dibromoethane
Concen: 4.961 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV011959.D
Acq: 22 Jul 2019 20:28

Instrument :
MSVOA_V
ClientSampleId :
VSTD00543

Tgt Ion:107 Resp: 31190
Ion Ratio Lower Upper
107 100
109 95.6 68.1 126.5
188 3.7 3.5 5.3

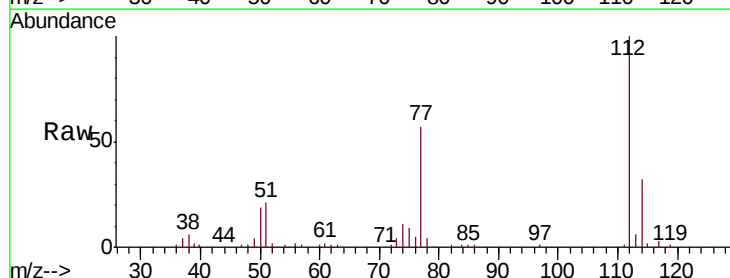


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

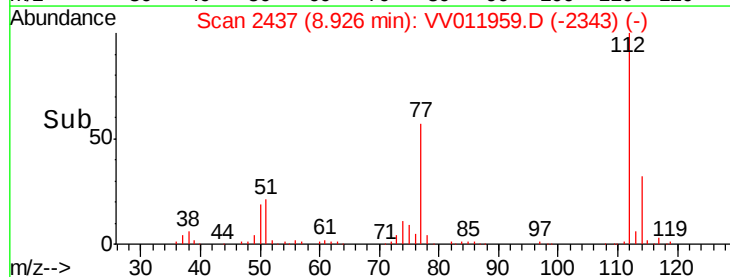
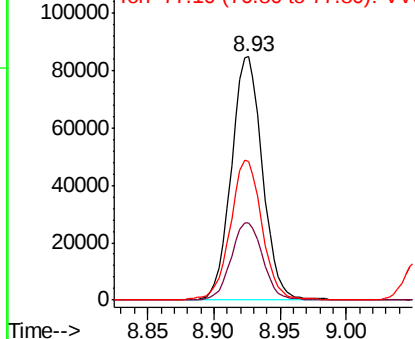


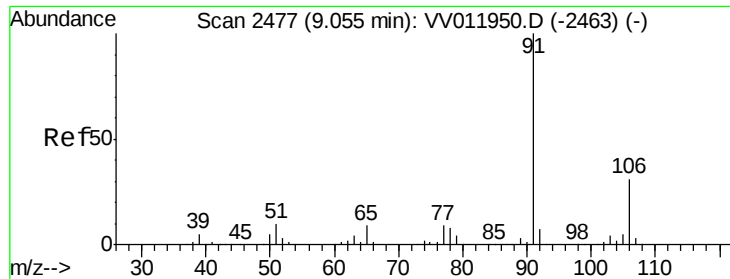
#51
Chlorobenzene
Concen: 4.915 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV011959.D
Acq: 22 Jul 2019 20:28

Tgt Ion:112 Resp: 138534
Ion Ratio Lower Upper
112 100
114 31.9 23.0 42.8
77 57.1 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: 4.890 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

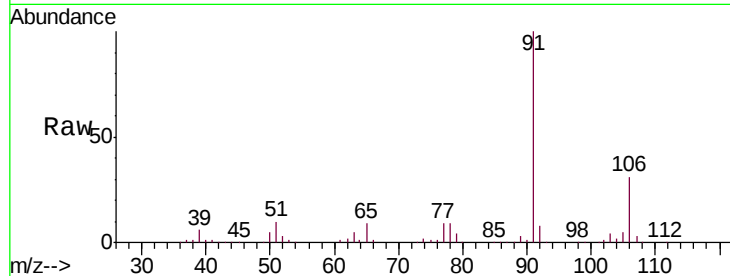
VSTD00543

Tgt Ion: 91 Resp: 240297

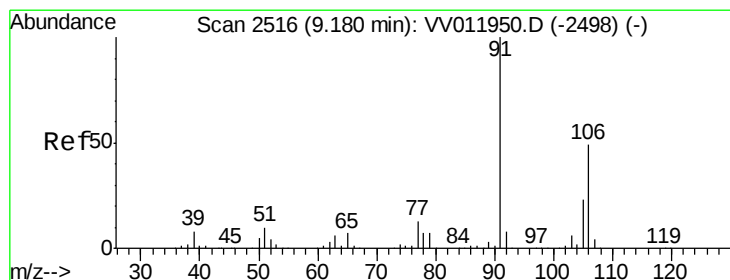
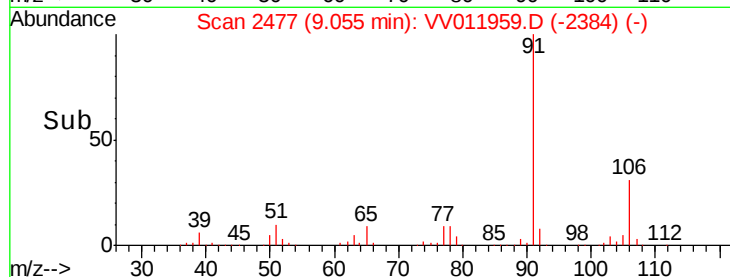
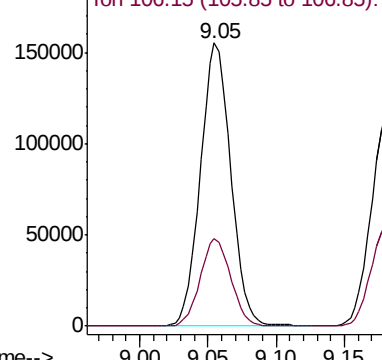
Ion Ratio Lower Upper

91 100

106 30.8 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV011959.D (-2384) (-)



#53

m,p-xylene

Concen: 4.960 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV011959.D

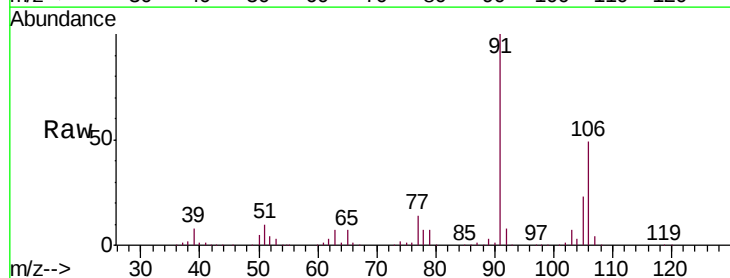
Acq: 22 Jul 2019 20:28

Tgt Ion: 106 Resp: 92774

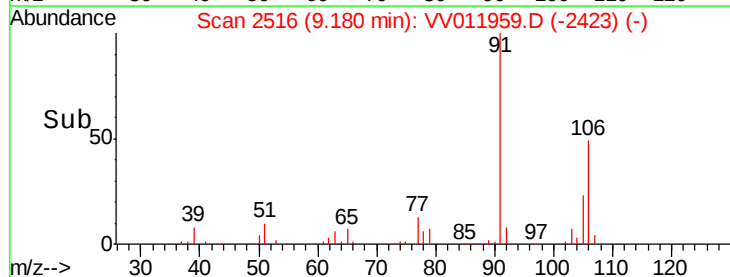
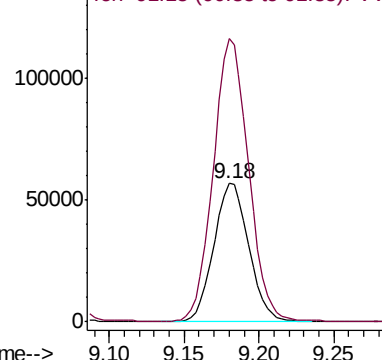
Ion Ratio Lower Upper

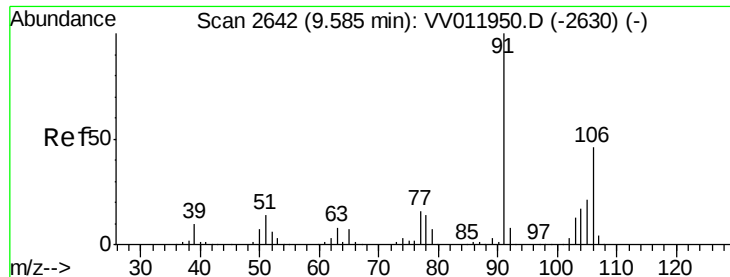
106 100

91 204.9 142.7 265.1



Abundance Ion 106.15 (105.85 to 106.85): VV011959.D (-2423) (-)





#54

o-xylene

Concen: 4.978 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

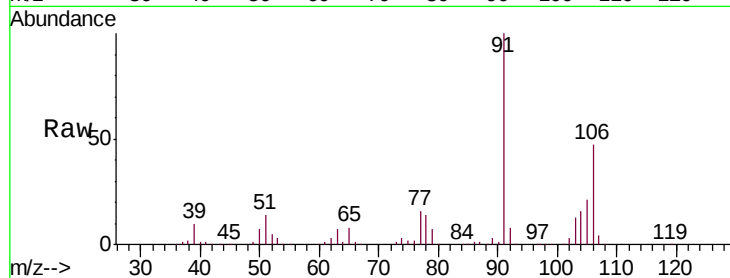
VSTD00543

Tgt Ion:106 Resp: 88279

Ion Ratio Lower Upper

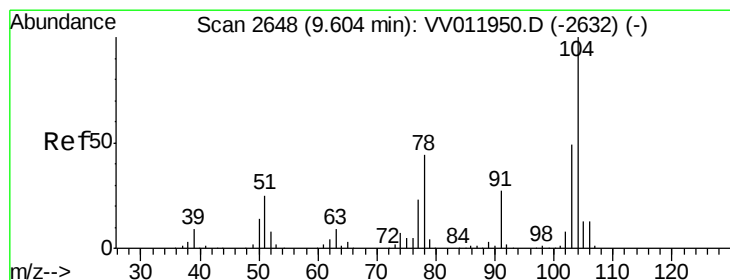
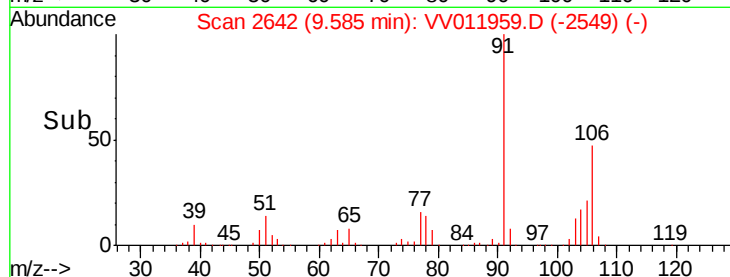
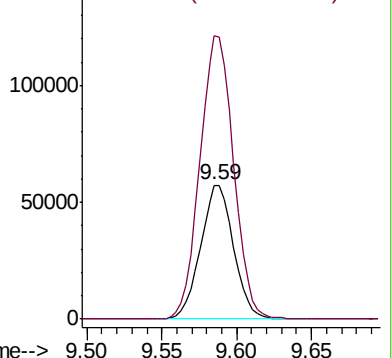
106 100

91 210.9 151.0 280.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.075 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV011959.D

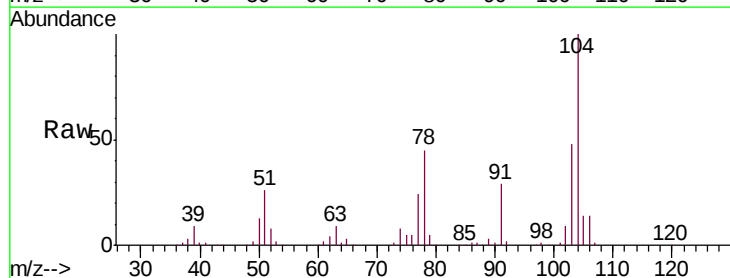
Acq: 22 Jul 2019 20:28

Tgt Ion:104 Resp: 151666

Ion Ratio Lower Upper

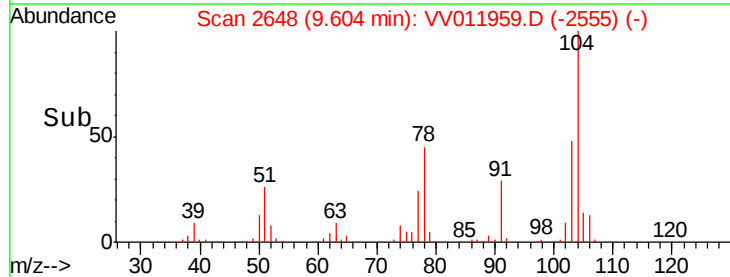
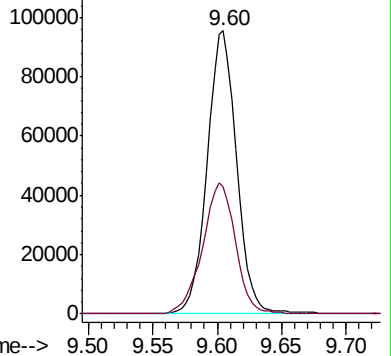
104 100

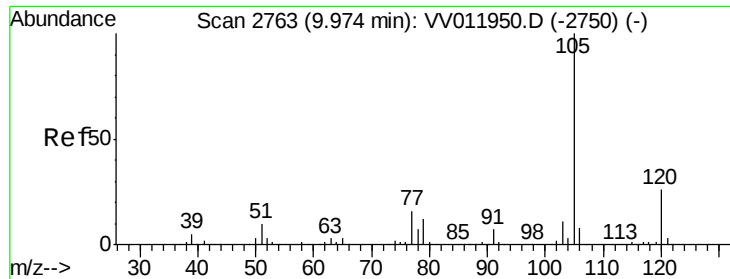
78 45.0 30.8 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.899 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD00543

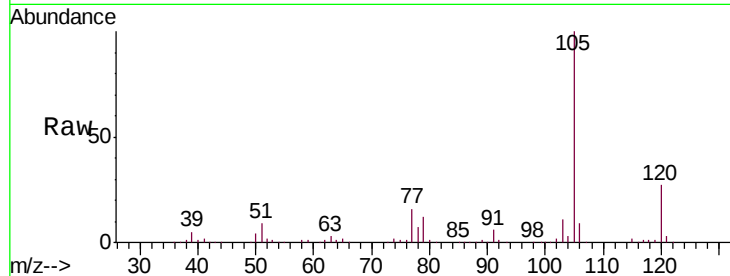
Tgt Ion: 105 Resp: 242620

Ion Ratio Lower Upper

105 100

120 26.2 20.8 31.2

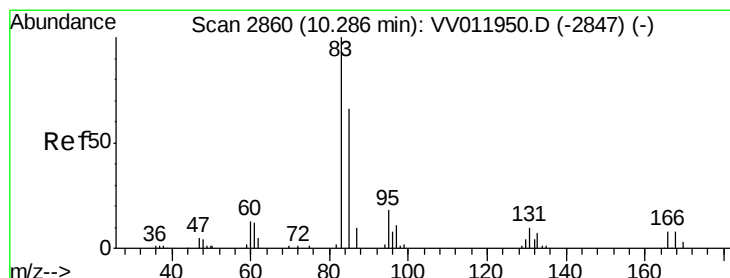
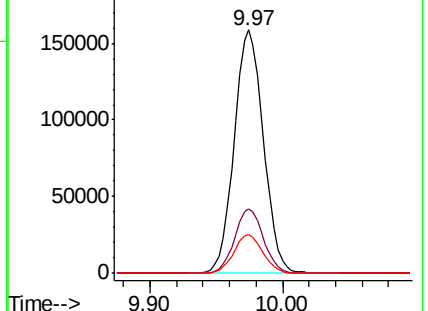
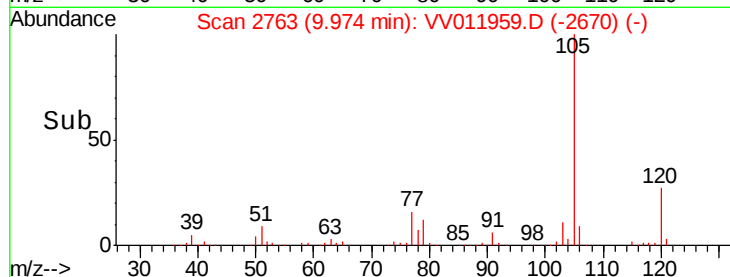
77 15.8 12.6 19.0



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: 4.972 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

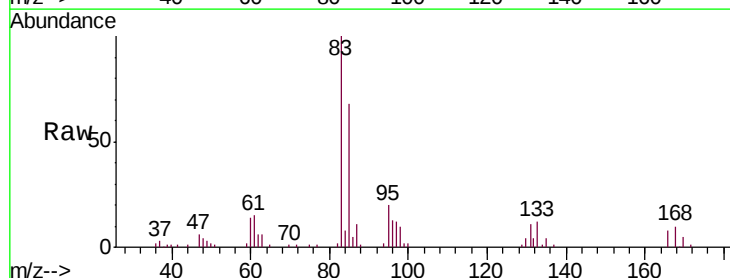
Tgt Ion: 83 Resp: 35882

Ion Ratio Lower Upper

83 100

85 68.3 46.3 85.9

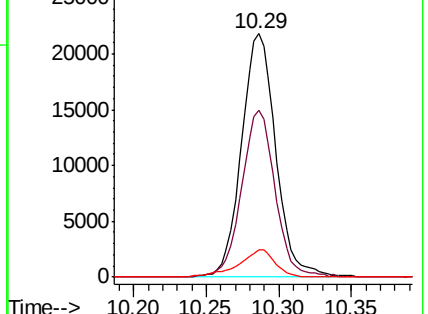
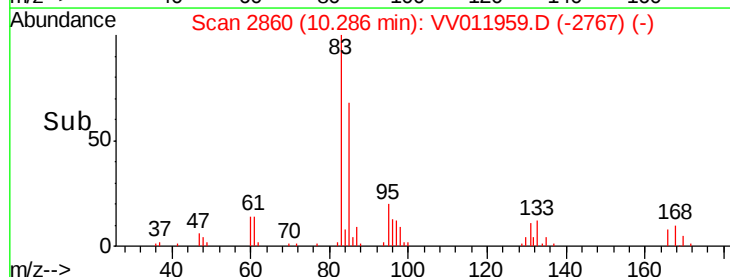
131 11.1 8.9 13.3

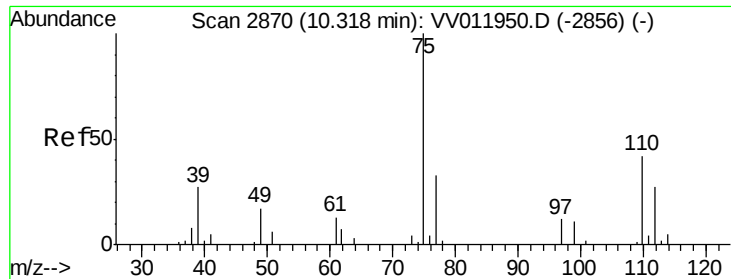


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.008 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

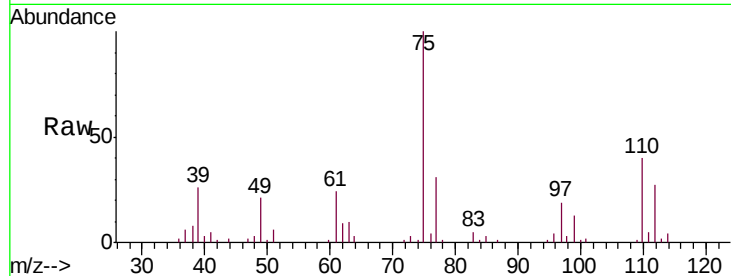
VSTD00543

Tgt Ion: 75 Resp: 28163

Ion Ratio Lower Upper

75 100

77 32.9 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VV011950.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV011950.D (-2856) (-)

10.32

20000

15000

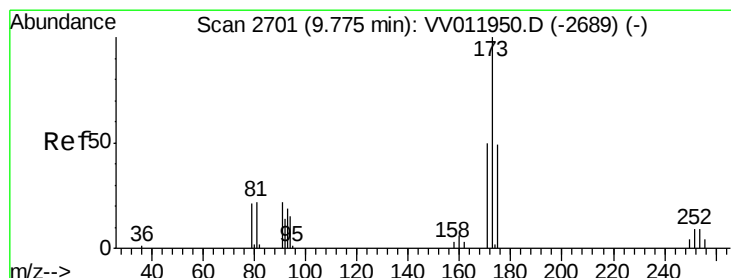
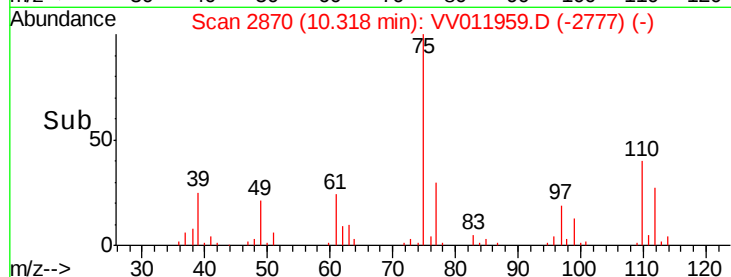
10000

5000

0

Time-->

10.25 10.30 10.35 10.40



#61

Bromoform

Concen: 5.047 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

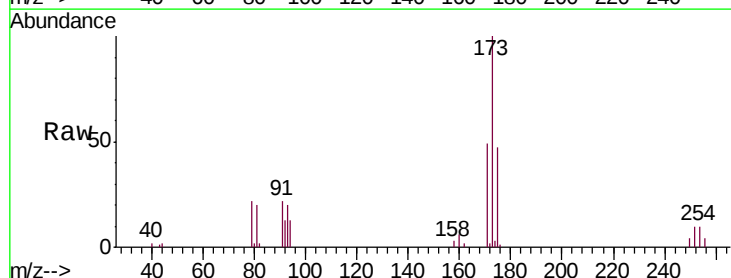
Tgt Ion: 173 Resp: 21879

Ion Ratio Lower Upper

173 100

175 47.7 39.6 59.4

254 10.9 7.9 11.9



Abundance Ion 172.90 (172.60 to 173.60): VV011950.D (-2689) (-)

Ion 174.90 (174.60 to 175.60): VV011950.D (-2689) (-)

Ion 253.75 (253.45 to 254.45): VV011950.D (-2689) (-)

9.77

15000

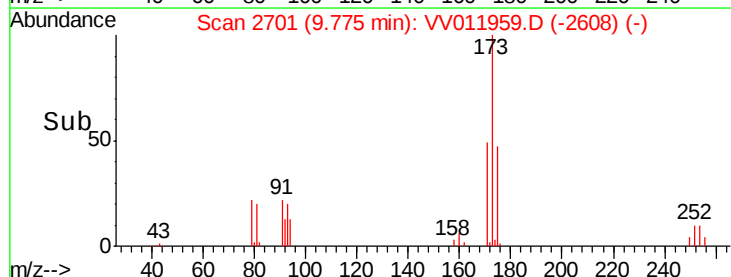
10000

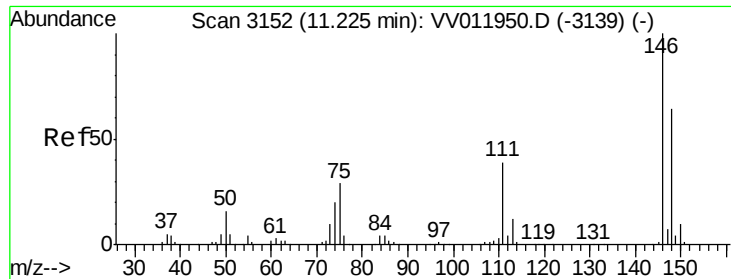
5000

0

Time-->

9.70 9.75 9.80 9.85

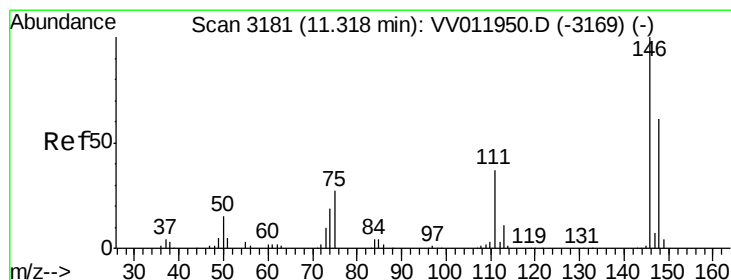
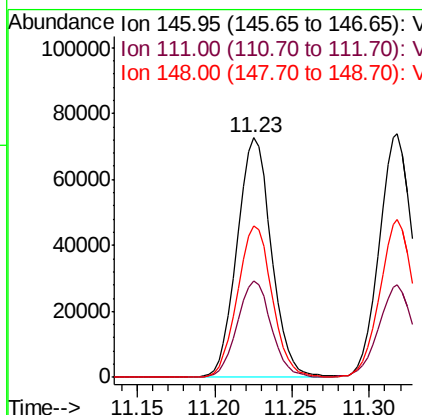
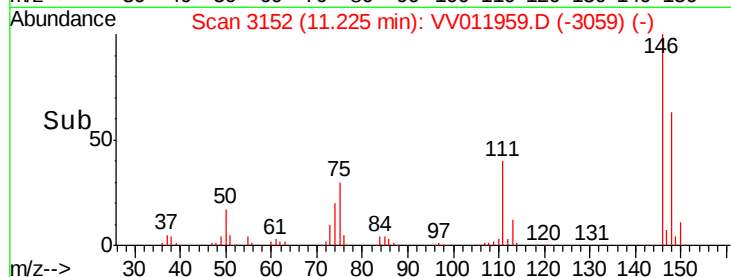
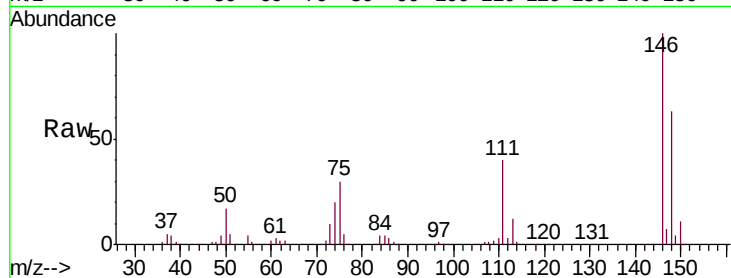




#62
 1,3-Dichlorobenzene
 Concen: 4.866 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

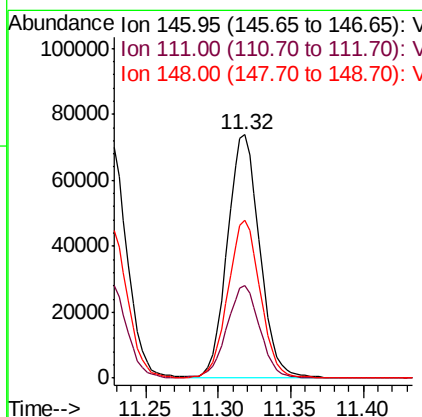
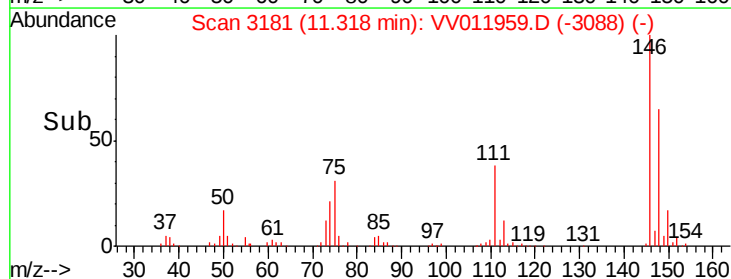
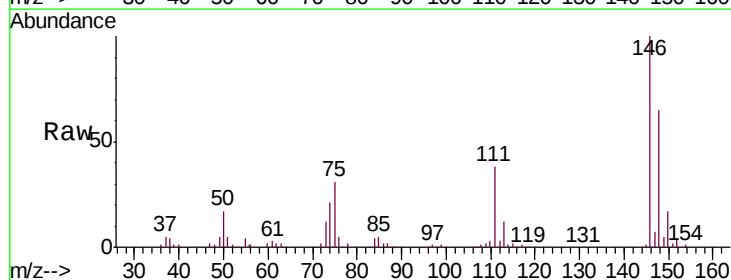
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00543

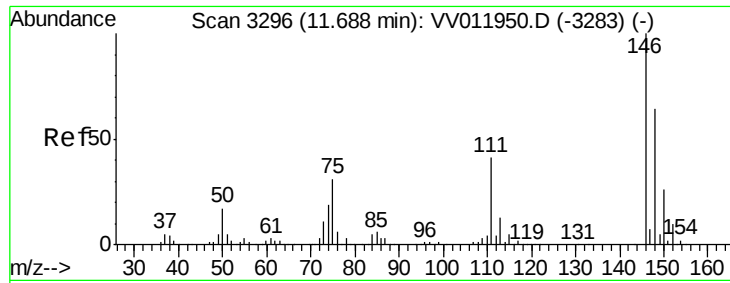
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	27.1	50.3
148	63.3	44.5	82.7



#63
 1,4-Dichlorobenzene
 Concen: 4.767 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	26.0	48.2
148	65.1	43.0	80.0





#65

1,2-Dichlorobenzene

Concen: 4.967 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD00543

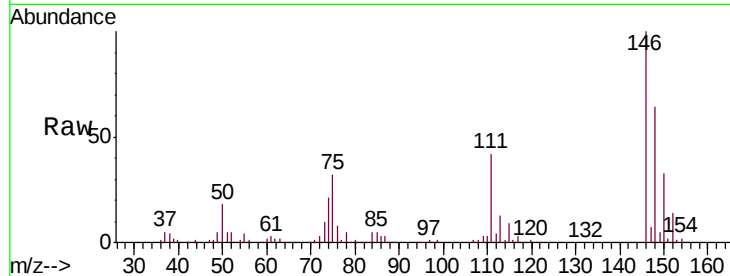
Tgt Ion:146 Resp: 105629

Ion Ratio Lower Upper

146 100

111 41.6 32.5 48.7

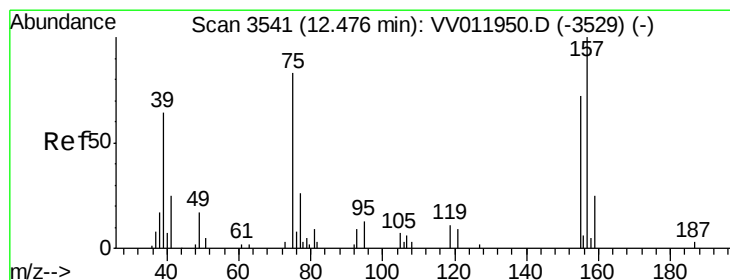
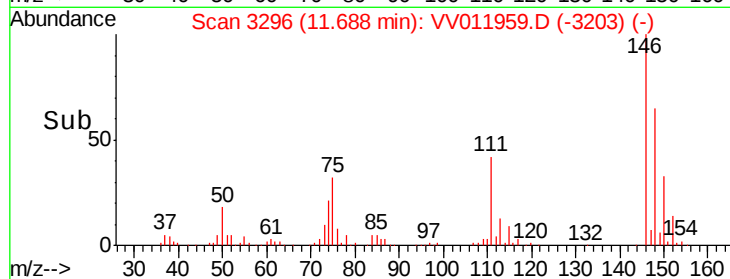
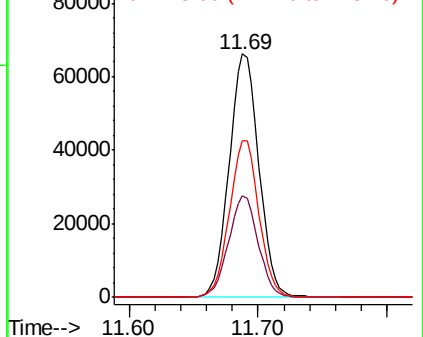
148 64.4 51.4 77.0



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: 4.903 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

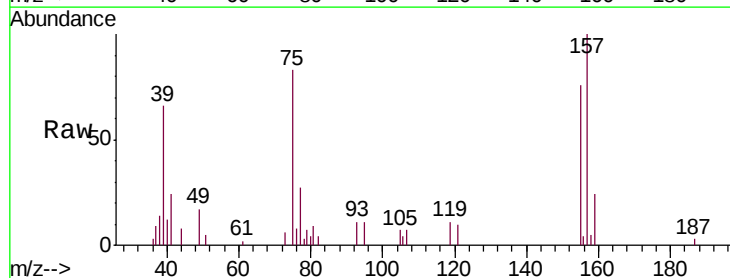
Tgt Ion: 75 Resp: 6058

Ion Ratio Lower Upper

75 100

155 91.4 69.5 104.3

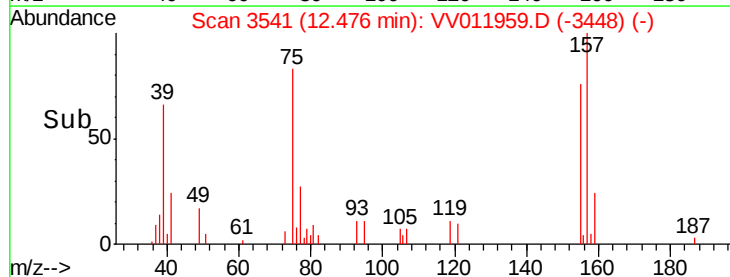
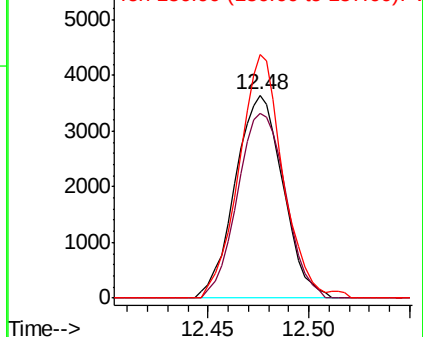
157 120.1 96.2 144.2

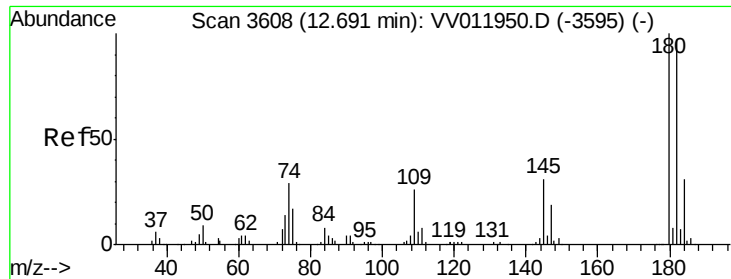


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

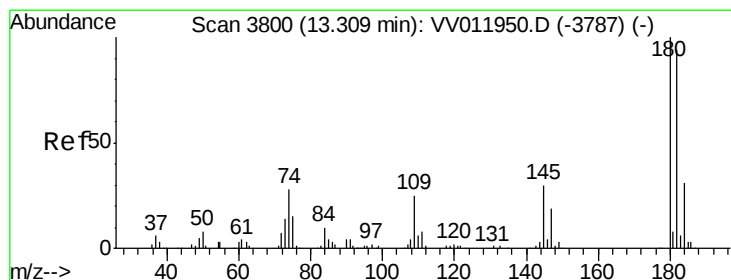
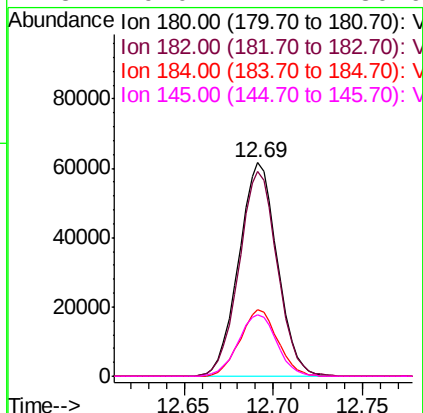
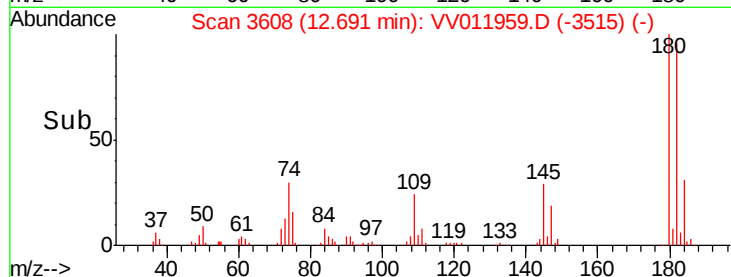
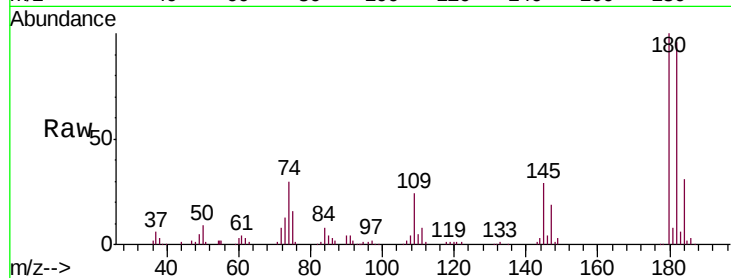




#67
 1,3,5-Trichlorobenzene
 Concen: 4.805 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

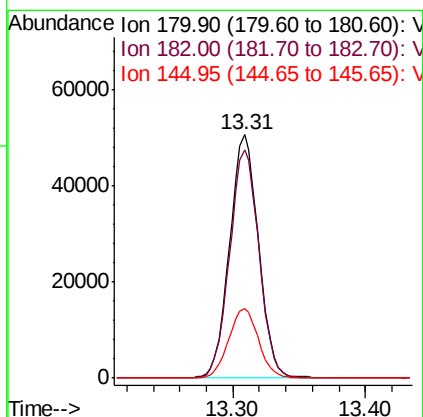
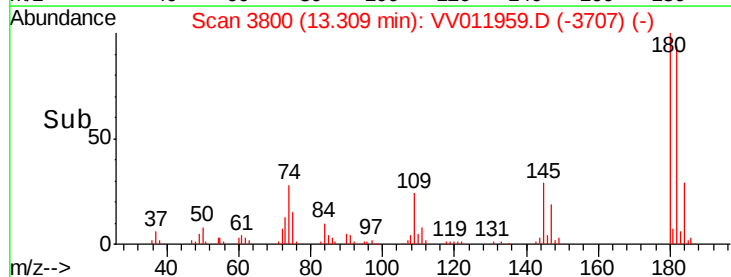
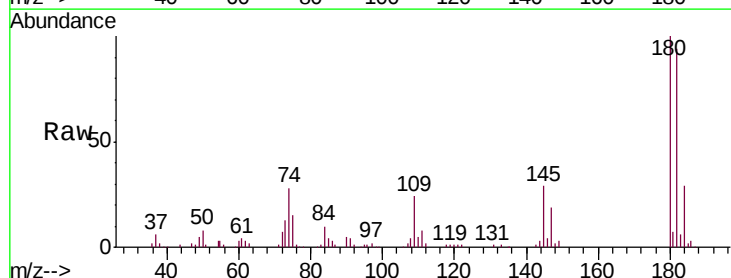
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00543

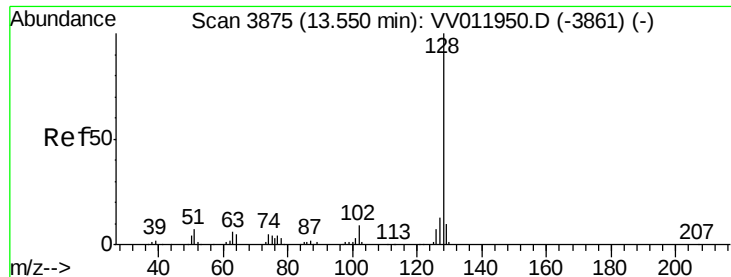
Tgt Ion:180 Resp: 92838
 Ion Ratio Lower Upper
 180 100
 182 95.2 77.4 116.0
 184 30.7 25.2 37.8
 145 29.0 24.4 36.6



#68
 1,2,4-trichlorobenzene
 Concen: 4.887 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV011959.D
 Acq: 22 Jul 2019 20:28

Tgt Ion:180 Resp: 76671
 Ion Ratio Lower Upper
 180 100
 182 94.6 75.8 113.8
 145 29.5 23.4 35.2





#69

Naphthalene

Concen: 4.768 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD00543

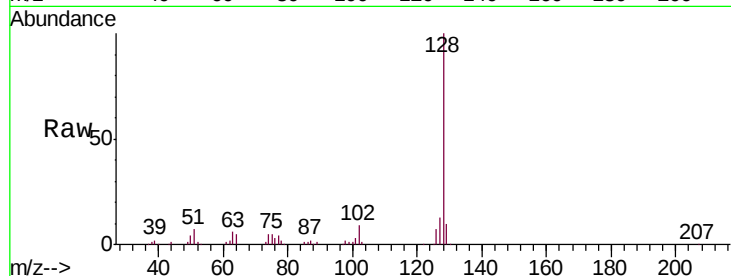
Tgt Ion:128 Resp: 112794

Ion Ratio Lower Upper

128 100

129 10.7 8.2 12.2

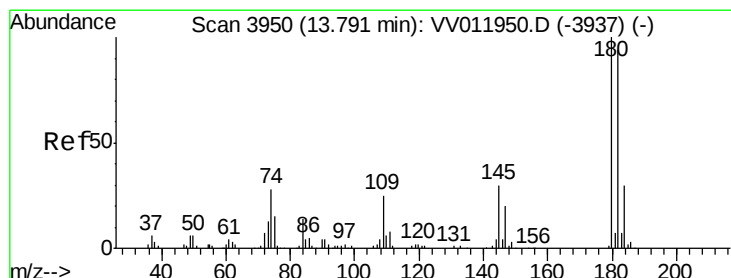
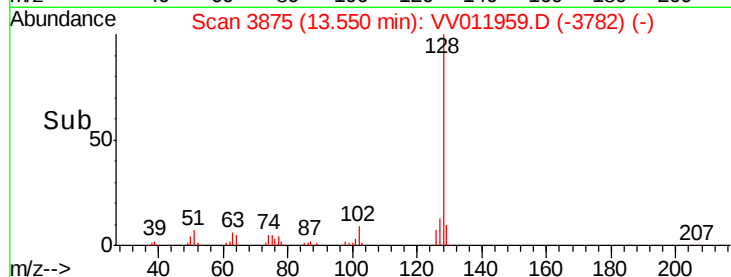
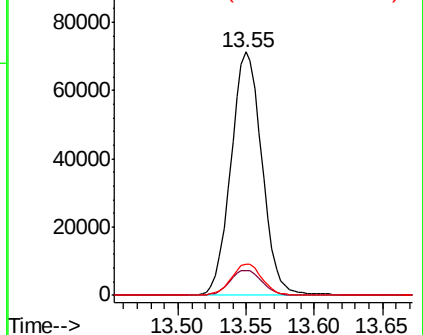
127 12.8 10.8 16.2



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: 4.907 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV011959.D

Acq: 22 Jul 2019 20:28

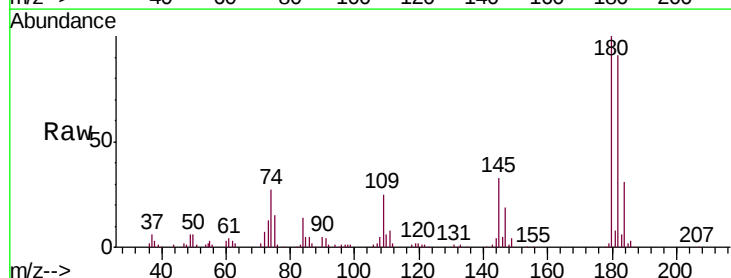
Tgt Ion:180 Resp: 69852

Ion Ratio Lower Upper

180 100

182 94.6 75.5 113.3

145 32.5 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

