

Data File : VV010713.D
Acq On : 08 May 2019 02:22
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

Quant Time: May 08 03:07:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis
QLast Update : Wed May 08 03:02:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	106699	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	110528	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	52404	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	37099	22.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.52%
7) Chloroethane-d5	1.57	69	32476	23.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.24%
10) 1,1-Dichloroethene-d2	2.12	63	75467	20.99	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	83.96%
20) 2-Butanone-d5	3.93	46	25681	51.63	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.26%
24) Chloroform-d	4.40	84	74332	25.55	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	102.20%
26) 1,2-Dichloroethane-d4	5.08	65	46632	25.67	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.68%
29) Benzene-d6	5.10	84	143111	24.60	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.40%
33) 1,2-Dichloropropane-d6	6.12	67	47609	25.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.72%
37) Toluene-d8	7.36	98	138314	24.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.32%
38) trans-1,3-Dichloropropene-	7.66	79	20619	24.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.60%
39) 2-Hexanone-d5	8.13	63	18589	47.92	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.84%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	42880	24.61	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.44%
61) 1,2-Dichlorobenzene-d4	11.67	152	49516	24.40	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	31072	21.026 ug/L	98
3) Chloromethane	1.25	50	44463	24.734 ug/L	97
5) Vinyl chloride	1.32	62	46115	22.093 ug/L	98
6) Bromomethane	1.51	94	24047	23.755 ug/L	97
8) Chloroethane	1.59	64	29685	22.836 ug/L	96
9) Trichlorofluoromethane	1.76	101	63867	20.326 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	37085	20.673 ug/L	98
12) 1,1-Dichloroethene	2.13	96	36286	21.602 ug/L	91
13) Acetone	2.19	43	26313	34.171 ug/L	99
14) Carbon disulfide	2.31	76	93236	22.587 ug/L	98
15) Methyl Acetate	2.46	43	22363	24.310 ug/L	100
16) Methylene chloride	2.53	84	45097	27.335 ug/L	99
17) Methyl tert-butyl Ether	2.80	73	113757	27.045 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	38404	25.293 ug/L	98
19) 1,1-Dichloroethane	3.23	63	76816	26.205 ug/L	96
21) 2-Butanone	4.02	43	32042	43.904 ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	44249	25.511 ug/L	95

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Quant Title : VOC Analysis
QLast Update : Wed May 08 03:02:12 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	21074	27.029	ug/L	95
25) Chloroform	4.42	83	81983	25.388	ug/L	98
27) 1,2-Dichloroethane	5.18	62	60578	25.665	ug/L	98
30) Cyclohexane	4.72	56	58449	21.085	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	63555	23.062	ug/L	100
32) Carbon tetrachloride	4.87	117	51837	21.594	ug/L	98
34) Benzene	5.14	78	166104	25.600	ug/L	100
35) Trichloroethene	5.96	95	43165	23.750	ug/L	99
36) Methylcyclohexane	6.18	83	63774	21.894	ug/L	96
40) 1,2-Dichloropropane	6.22	63	43475	25.188	ug/L	99
41) Bromodichloromethane	6.55	83	60608	25.555	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	68471	25.080	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	70675	48.644	ug/L	98
44) Toluene	7.43	91	178496	24.222	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	57061	24.821	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	35927	25.337	ug/L	98
47) Tetrachloroethene	8.02	164	28302	21.502	ug/L	90
49) 2-Hexanone	8.18	43	49144	44.489	ug/L	97
50) Dibromochloromethane	8.29	129	41068	25.186	ug/L	97
51) 1,2-Dibromoethane	8.40	107	35574	25.975	ug/L	95
52) Chlorobenzene	8.92	112	121536	25.244	ug/L	98
53) Ethylbenzene	9.05	91	208444	24.395	ug/L	99
54) m,p-Xylene	9.18	106	77652	24.325	ug/L	97
55) o-xylene	9.59	106	79341	25.057	ug/L	100
56) Styrene	9.60	104	140376	26.211	ug/L	99
57) Isopropylbenzene	9.97	105	201344	23.833	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	45031	24.240	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	34574	23.846	ug/L	98
62) Bromoform	9.77	173	21166	23.719	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	90934	24.929	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	91805	24.638	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	89265	25.195	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	7440	22.631	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	62769	23.888	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	52151	25.650	ug/L	98
69) Naphthalene	13.55	128	115261	26.485	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	50421	26.438	ug/L	99

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

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MSVOA_V
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VSTD02587

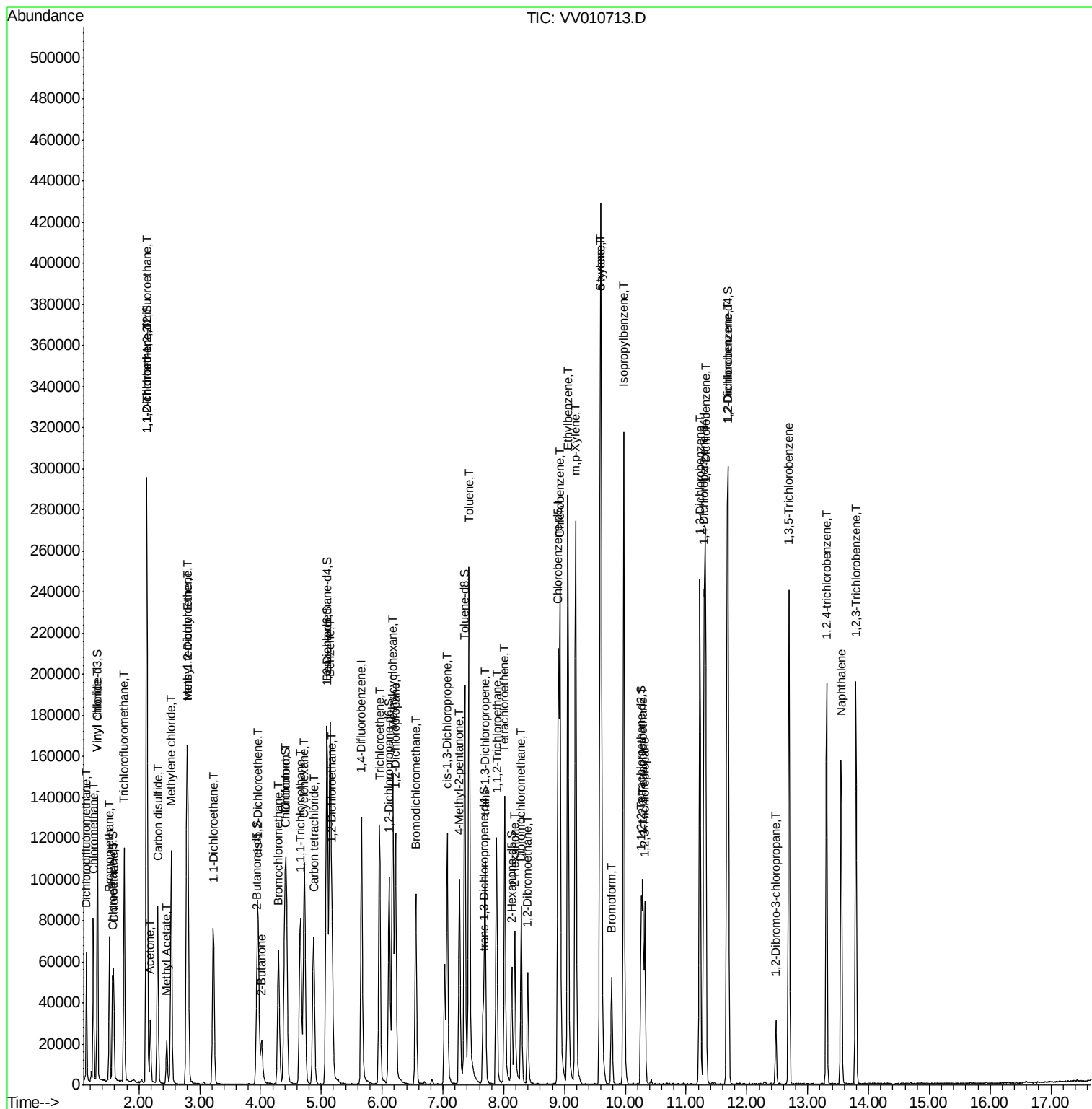
Quant Time: May 08 03:07:20 2019

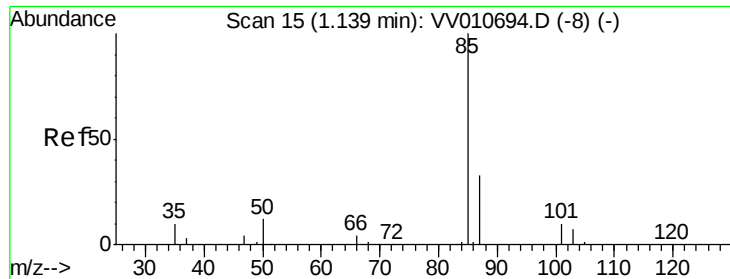
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM050719S.M

Quant Title : VOC Analysis

QLast Update : Wed May 08 03:02:12 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 21.026 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

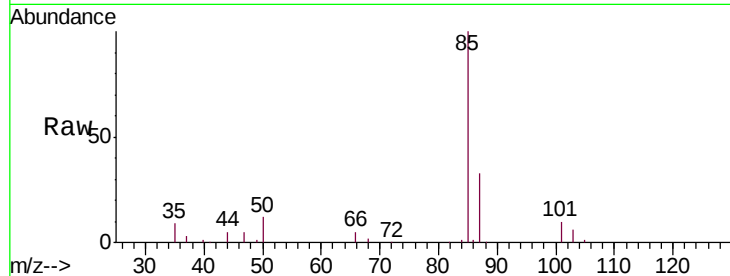
VSTD02587

Tgt Ion: 85 Resp: 31072

Ion Ratio Lower Upper

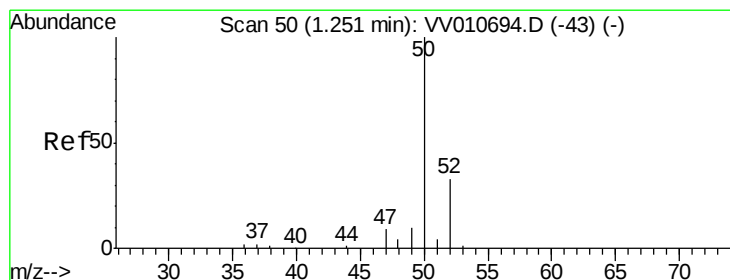
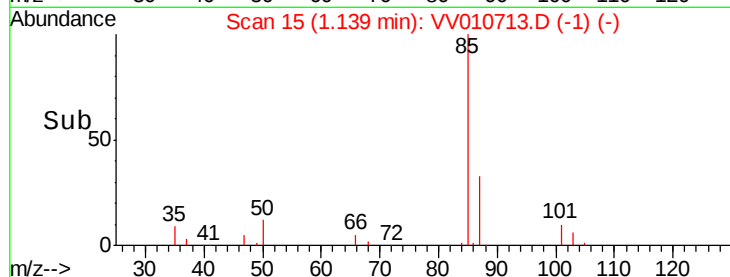
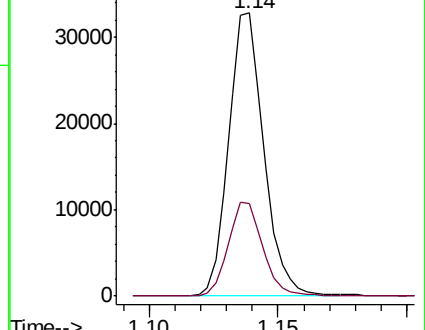
85 100

87 32.6 21.9 40.7



Abundance Ion 85.00 (84.70 to 85.70): VV010694.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010694.D (-8) (-)



#3

Chloromethane

Concen: 24.734 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV010713.D

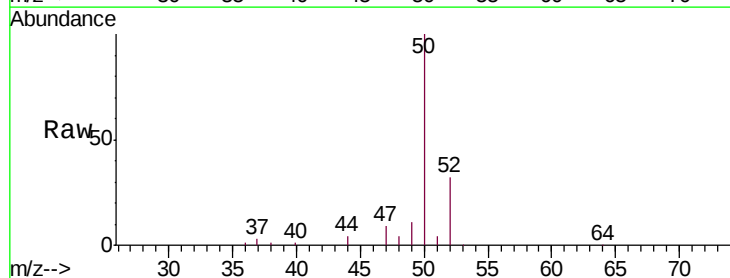
Acq: 08 May 2019 02:22

Tgt Ion: 50 Resp: 44463

Ion Ratio Lower Upper

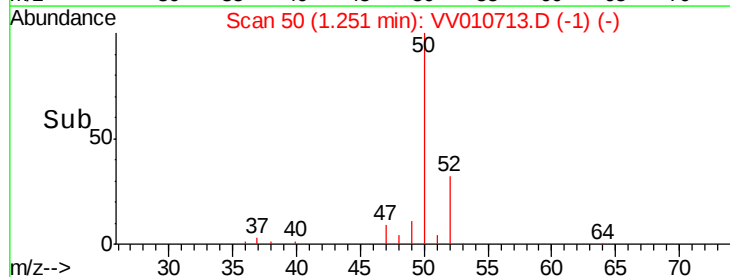
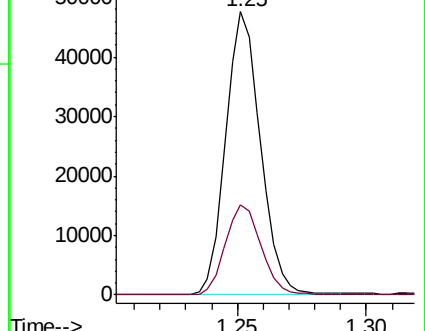
50 100

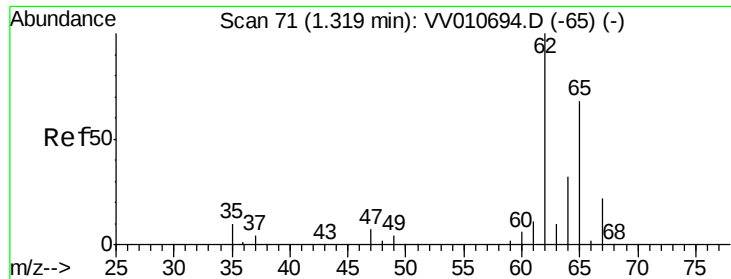
52 32.0 23.7 43.9



Abundance Ion 50.00 (49.70 to 50.70): VV010694.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV010694.D (-43) (-)





#5

Vinyl chloride

Concen: 22.093 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

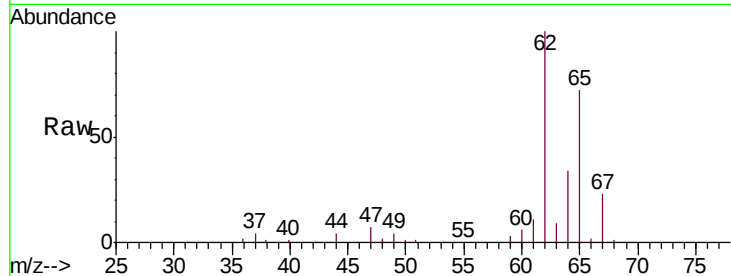
VSTD02587

Tgt Ion: 62 Resp: 46115

Ion Ratio Lower Upper

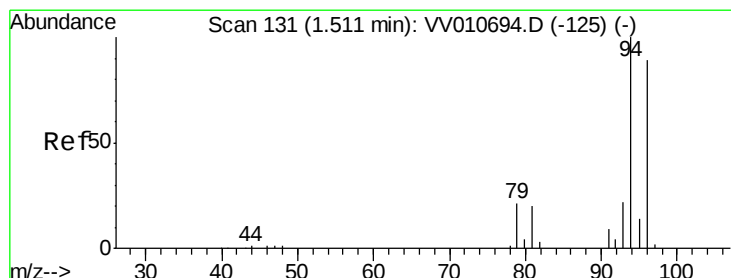
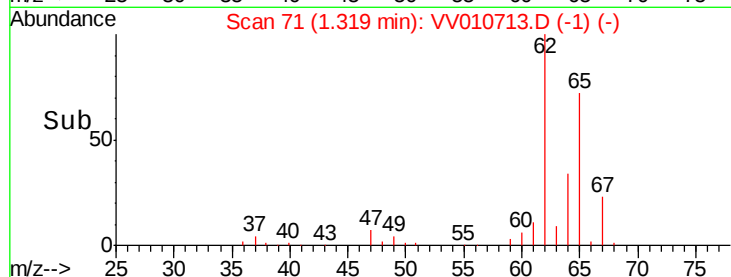
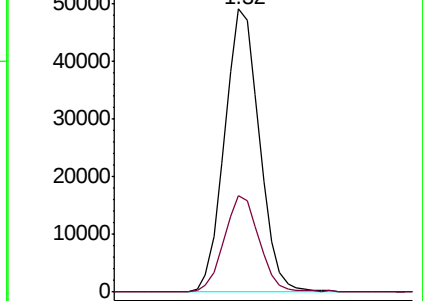
62 100

64 33.9 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV010694.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV010694.D (-65) (-)



#6

Bromomethane

Concen: 23.755 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.00 min

Lab File: VV010713.D

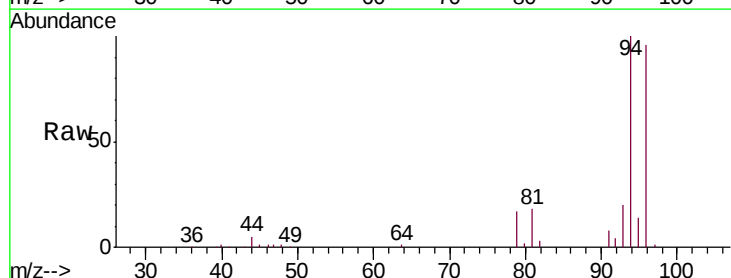
Acq: 08 May 2019 02:22

Tgt Ion: 94 Resp: 24047

Ion Ratio Lower Upper

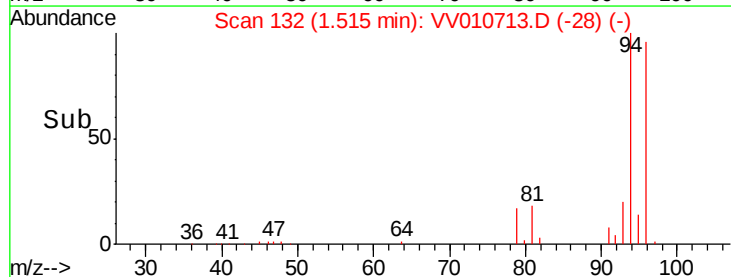
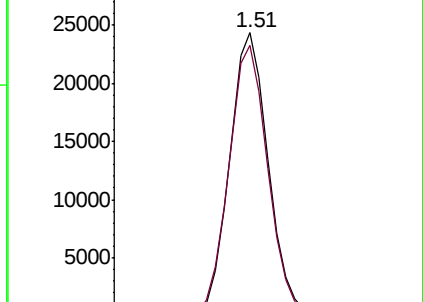
94 100

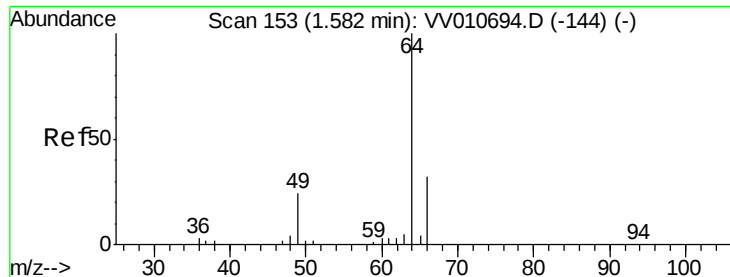
96 97.1 9.4 179.0



Abundance Ion 94.00 (93.70 to 94.70): VV010694.D (-125) (-)

Ion 96.00 (95.70 to 96.70): VV010694.D (-125) (-)





#8

Chloroethane

Concen: 22.836 ug/L

RT: 1.59 min Scan# 154

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

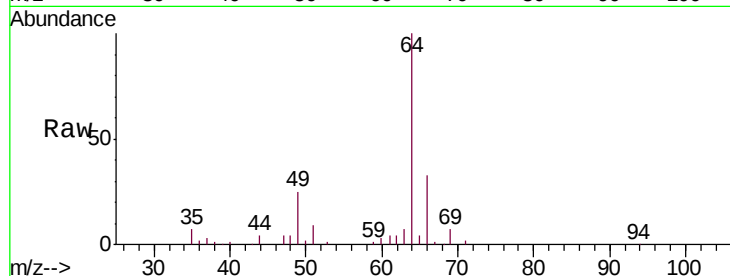
VSTD02587

Tgt Ion: 64 Resp: 29685

Ion Ratio Lower Upper

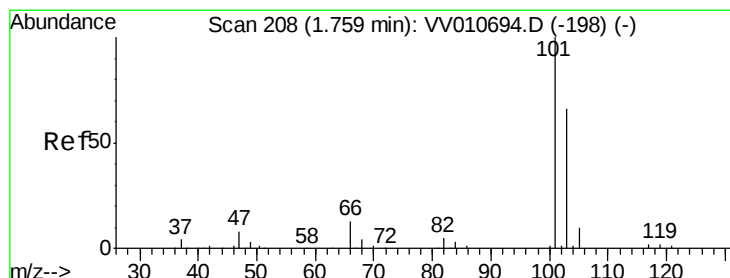
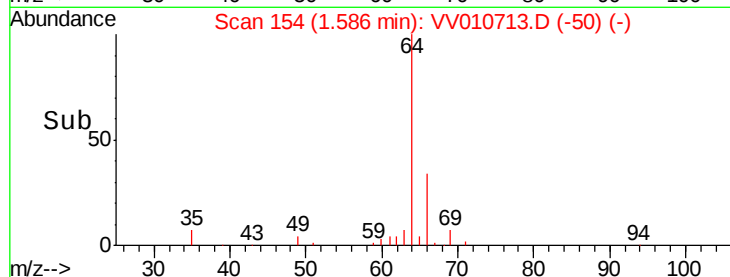
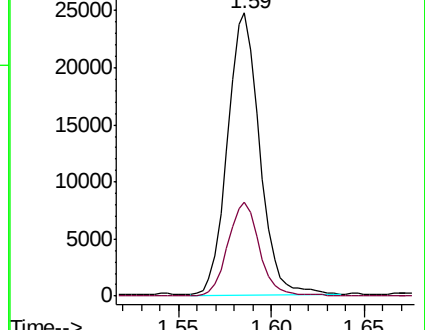
64 100

66 33.3 21.8 40.4



Abundance Ion 64.00 (63.70 to 64.70): VV010694.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV010694.D (-144) (-)



#9

Trichlorofluoromethane

Concen: 20.326 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.00 min

Lab File: VV010713.D

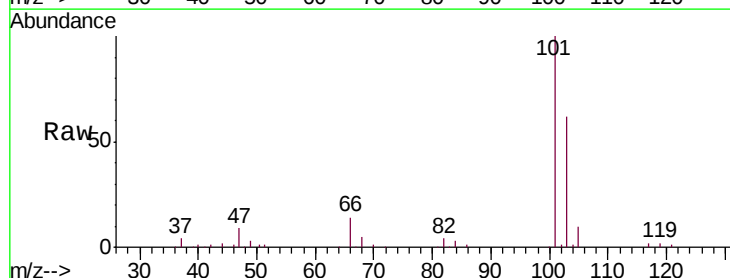
Acq: 08 May 2019 02:22

Tgt Ion: 101 Resp: 63867

Ion Ratio Lower Upper

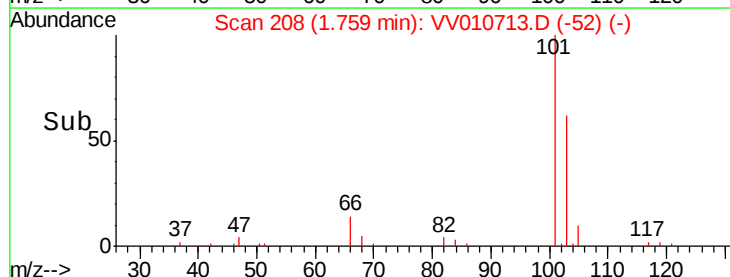
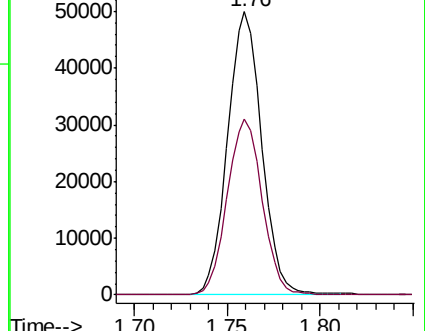
101 100

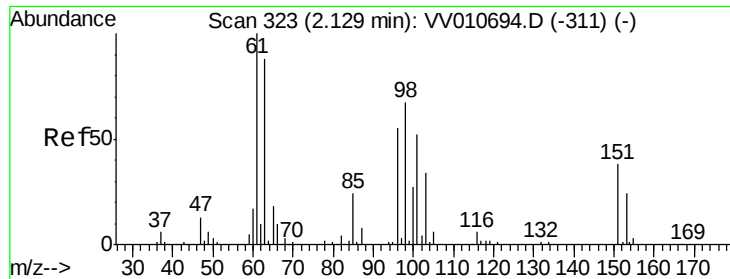
103 63.5 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV010694.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV010694.D (-198) (-)





#11

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

Concen: 20.673 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

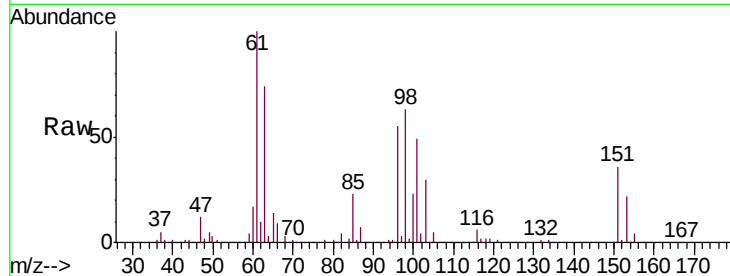
Tgt Ion:101 Resp: 37085

Ion Ratio Lower Upper

101 100

85 46.0 36.0 54.0

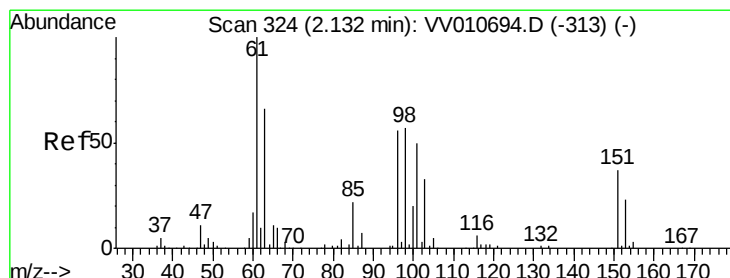
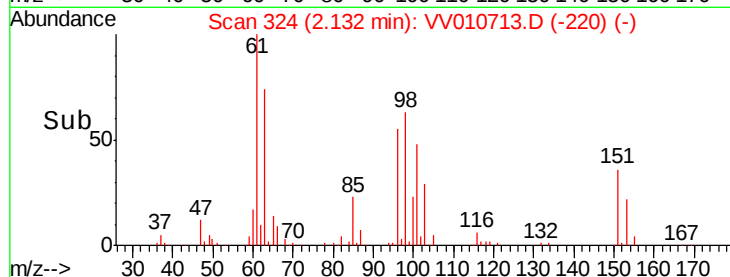
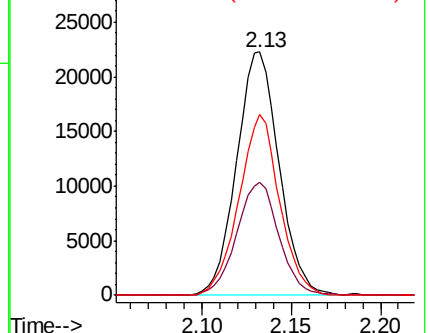
151 70.8 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): VV010713.D (-220) (-)

Ion 85.00 (84.70 to 85.70): VV010713.D (-220) (-)

Ion 151.00 (150.70 to 151.70): VV010713.D (-220) (-)



#12

1,1-Dichloroethene

Concen: 21.602 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

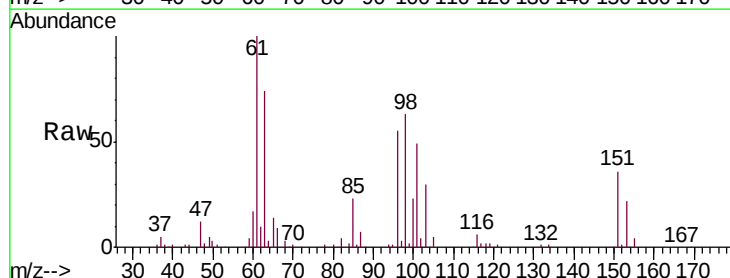
Tgt Ion: 96 Resp: 36286

Ion Ratio Lower Upper

96 100

61 180.3 120.3 223.3

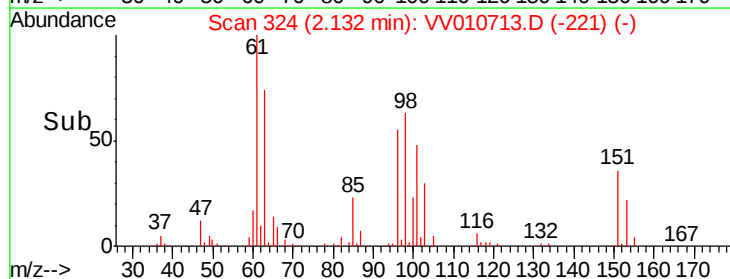
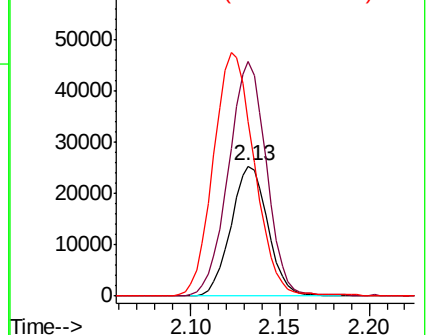
63 134.2 82.9 153.9

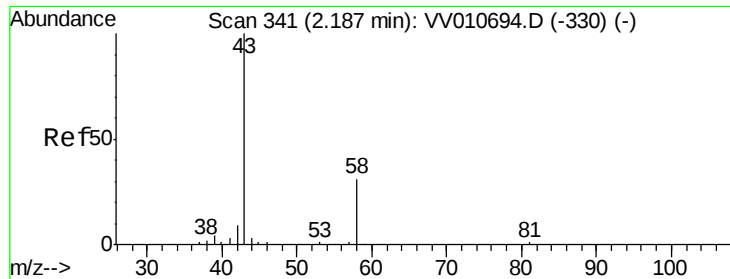


Abundance Ion 96.00 (95.70 to 96.70): VV010713.D (-221) (-)

Ion 61.00 (60.70 to 61.70): VV010713.D (-221) (-)

Ion 63.00 (62.70 to 63.70): VV010713.D (-221) (-)





#13

Acetone

Concen: 34.171 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

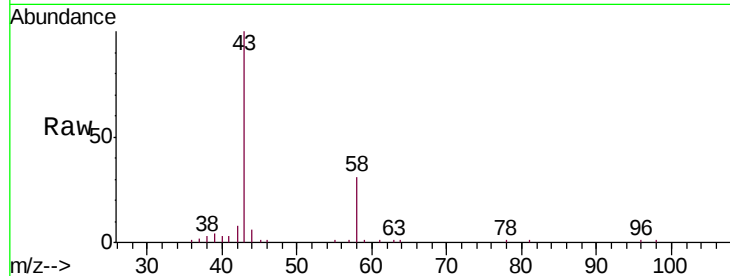
VSTD02587

Tgt Ion: 43 Resp: 26313

Ion Ratio Lower Upper

43 100

58 32.4 0.0 63.4



Abundance Ion 43.00 (42.70 to 43.70): VV010694.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV010694.D (-330) (-)

20000

15000

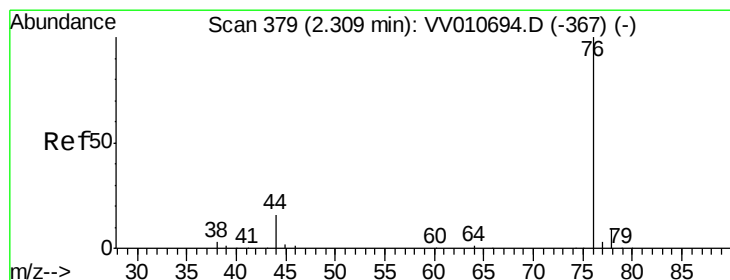
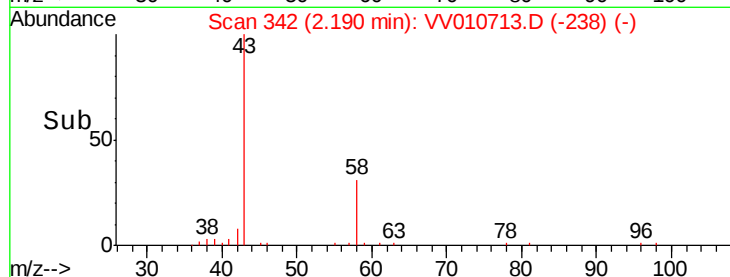
10000

5000

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 22.587 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV010713.D

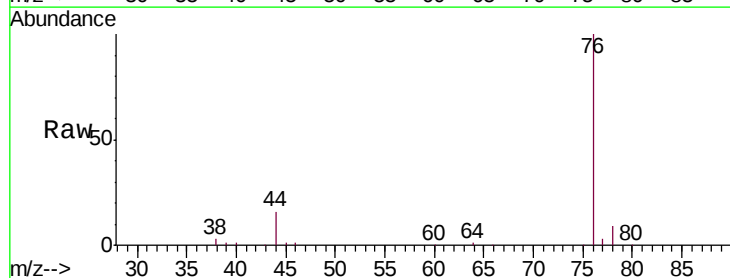
Acq: 08 May 2019 02:22

Tgt Ion: 76 Resp: 93236

Ion Ratio Lower Upper

76 100

78 9.0 7.8 11.8



Abundance Ion 76.00 (75.70 to 76.70): VV010694.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV010694.D (-367) (-)

60000

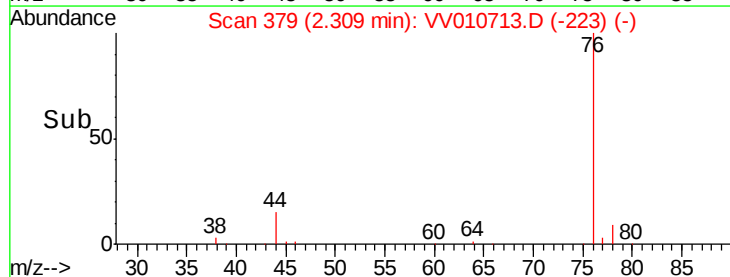
40000

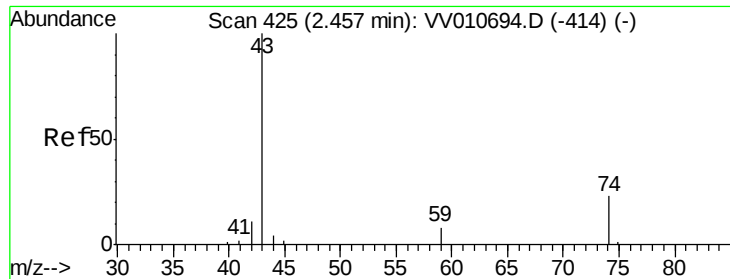
20000

0

2.25 2.30 2.35

Time-->





#15

Methyl Acetate

Concen: 24.310 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

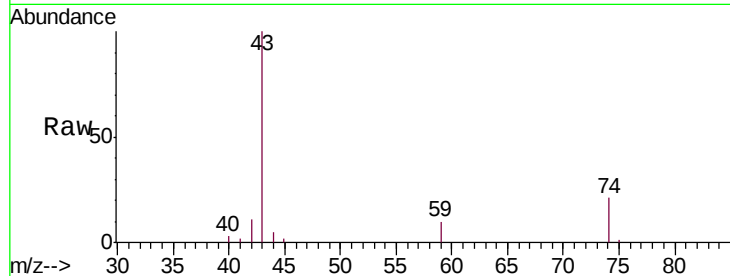
VSTD02587

Tgt Ion: 43 Resp: 22363

Ion Ratio Lower Upper

43 100

74 21.1 17.0 25.4



Abundance Ion 43.00 (42.70 to 43.70): VV010713.D (-322) (-)

Ion 74.00 (73.70 to 74.70): VV010713.D (-322) (-)

2.46

15000

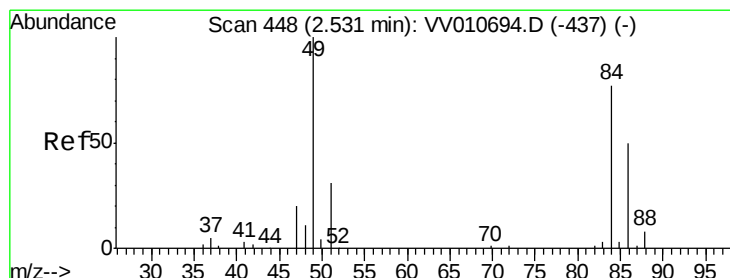
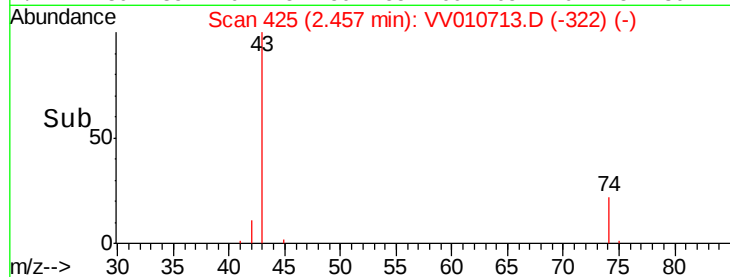
10000

5000

0

Time-->

2.40 2.45 2.50



#16

Methylene chloride

Concen: 27.335 ug/L

RT: 2.53 min Scan# 448

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

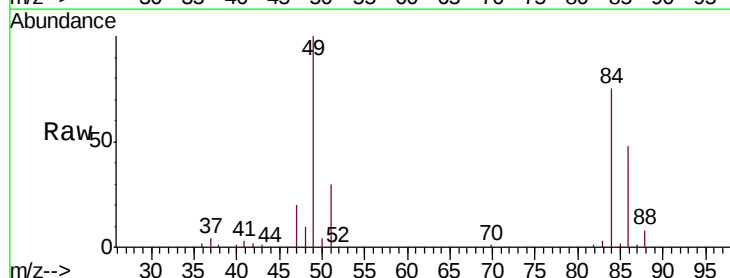
Tgt Ion: 84 Resp: 45097

Ion Ratio Lower Upper

84 100

49 133.0 92.9 172.5

86 64.2 46.5 86.5



Abundance Ion 84.00 (83.70 to 84.70): VV010713.D (-345) (-)

Ion 49.00 (48.70 to 49.70): VV010713.D (-345) (-)

Ion 86.00 (85.70 to 86.70): VV010713.D (-345) (-)

2.53

50000

40000

30000

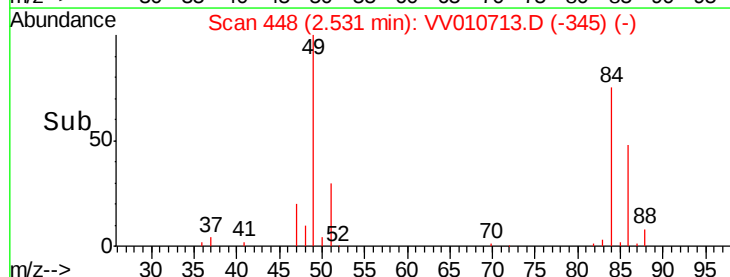
20000

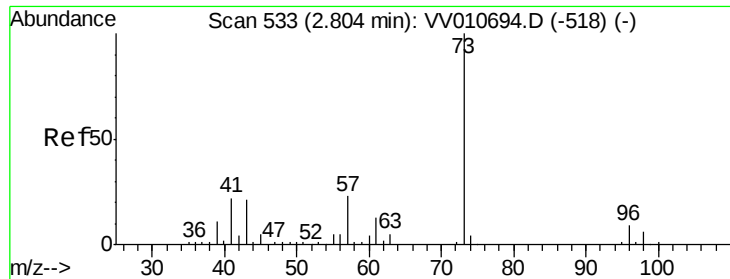
10000

0

Time-->

2.45 2.50 2.55 2.60

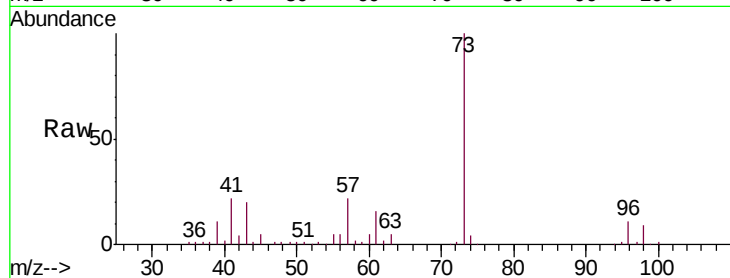




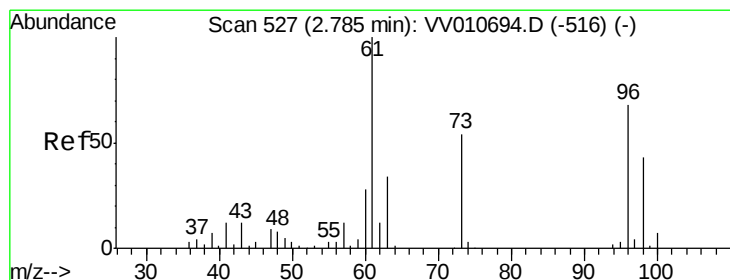
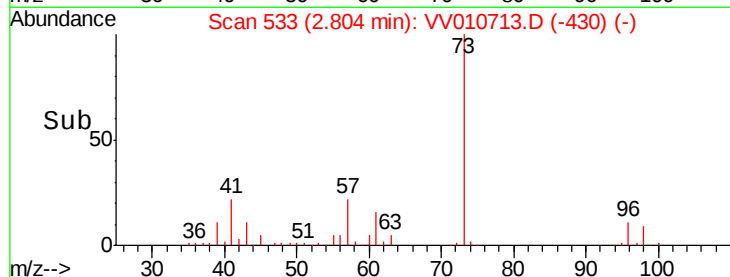
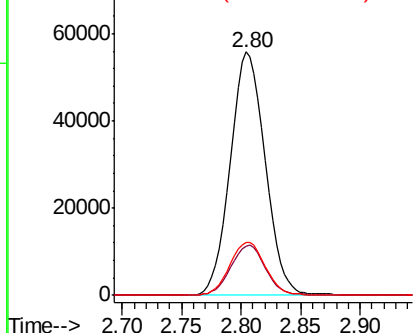
#17
Methyl tert-butyl Ether
Concen: 27.045 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

Tgt Ion: 73 Resp: 113757
Ion Ratio Lower Upper
73 100
43 20.6 16.6 25.0
57 22.2 17.4 26.2

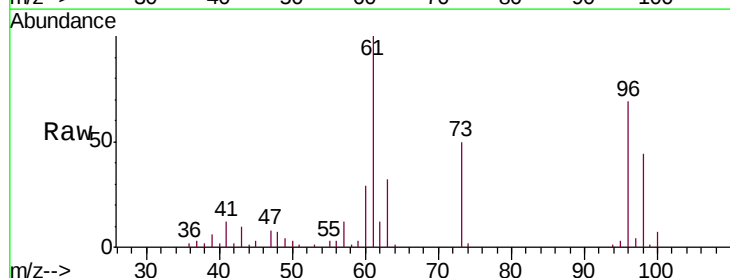


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

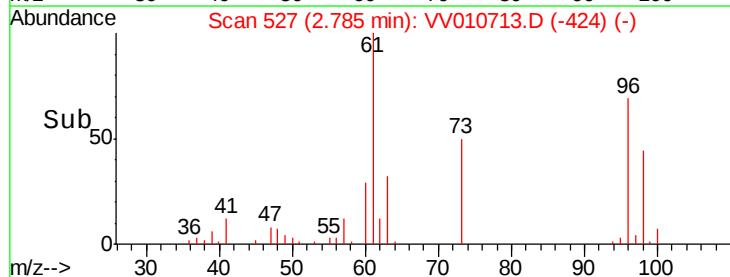
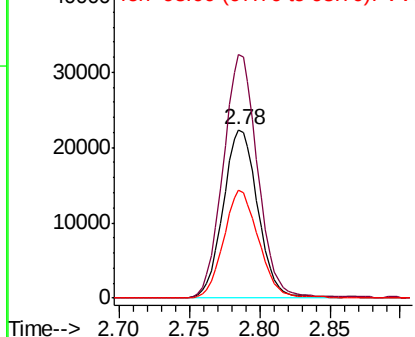


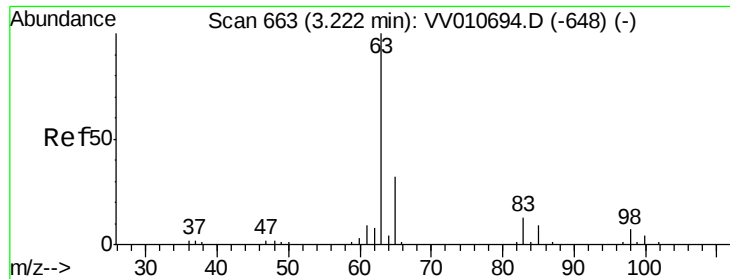
#18
trans-1,2-Dichloroethene
Concen: 25.293 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Tgt Ion: 96 Resp: 38404
Ion Ratio Lower Upper
96 100
61 144.7 102.8 190.8
98 64.3 44.0 81.6



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





#19

1,1-Dichloroethane

Concen: 26.205 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

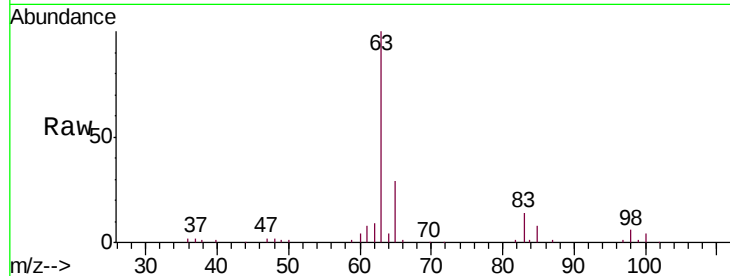
Tgt Ion: 63 Resp: 76816

Ion Ratio Lower Upper

63 100

65 29.0 22.5 41.7

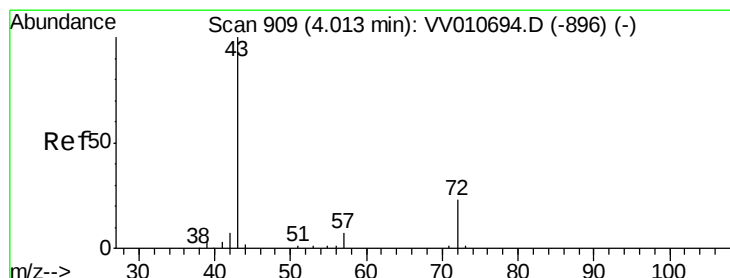
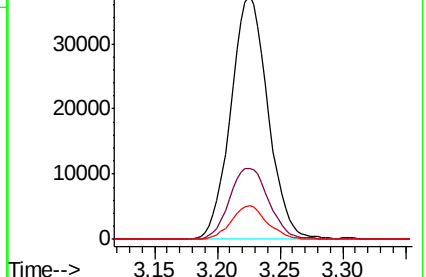
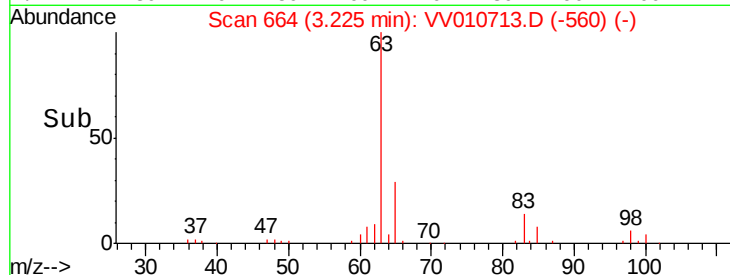
83 13.9 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VV010713.D (-560) (-)

Ion 65.00 (64.70 to 65.70): VV010713.D (-560) (-)

Ion 83.00 (82.70 to 83.70): VV010713.D (-560) (-)



#21

2-Butanone

Concen: 43.904 ug/L

RT: 4.02 min Scan# 910

Delta R.T. 0.00 min

Lab File: VV010713.D

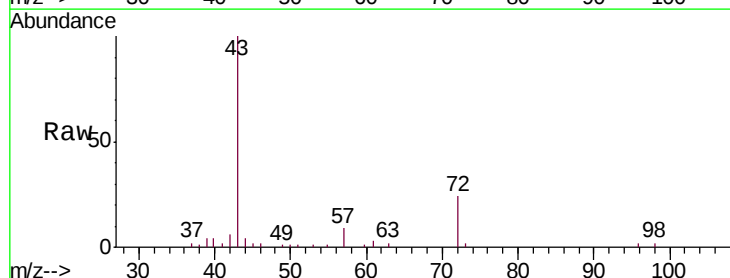
Acq: 08 May 2019 02:22

Tgt Ion: 43 Resp: 32042

Ion Ratio Lower Upper

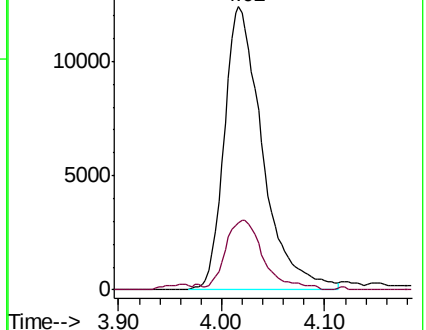
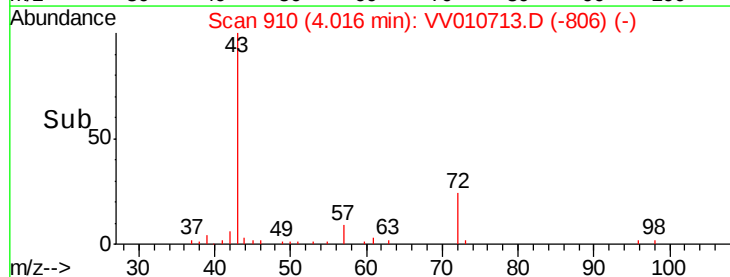
43 100

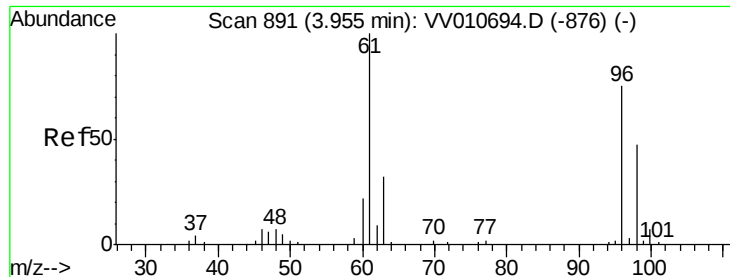
72 24.4 11.2 33.6



Abundance Ion 43.00 (42.70 to 43.70): VV010713.D (-806) (-)

Ion 72.00 (71.70 to 72.70): VV010713.D (-806) (-)



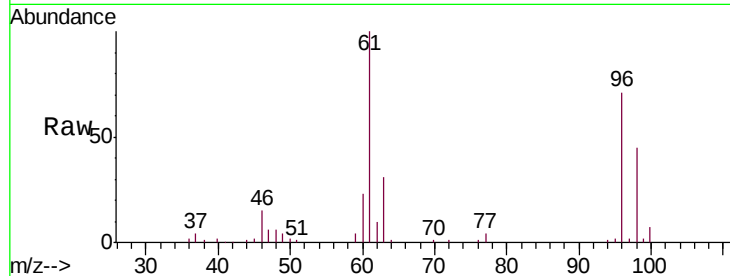


#22

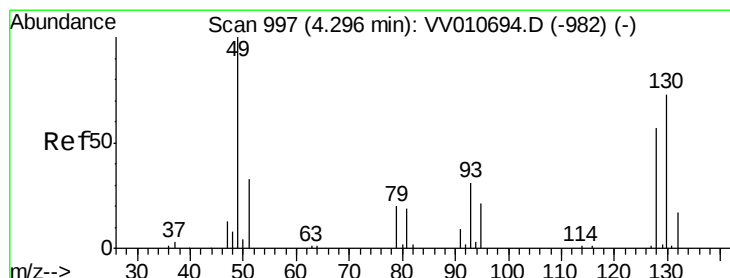
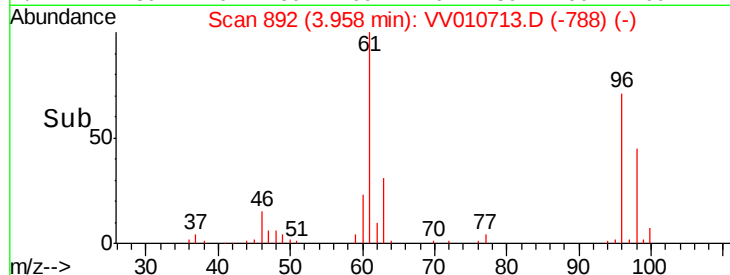
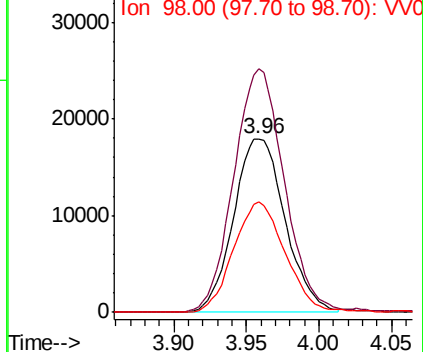
cis-1,2-Dichloroethene
Concen: 25.511 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

Tgt Ion: 96 Resp: 44249
Ion Ratio Lower Upper
96 100
61 140.3 93.9 174.5
98 63.4 46.5 86.5



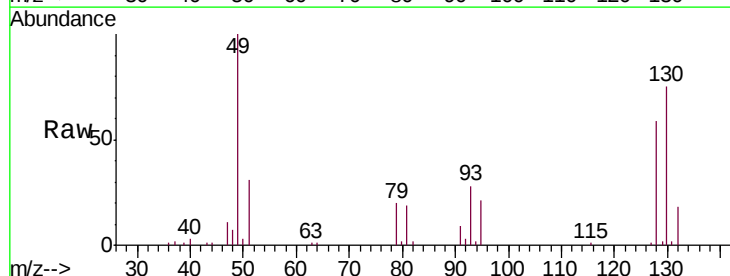
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



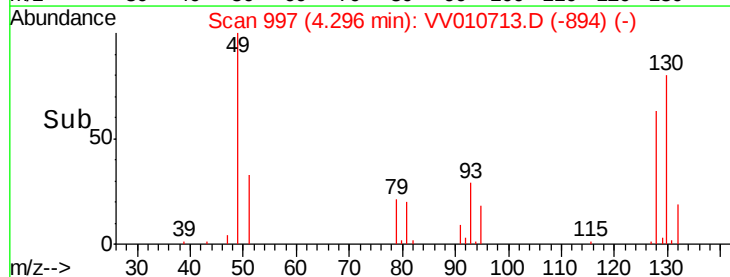
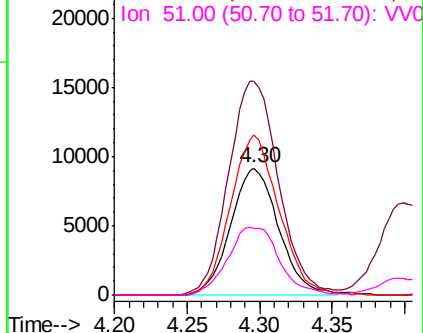
#23

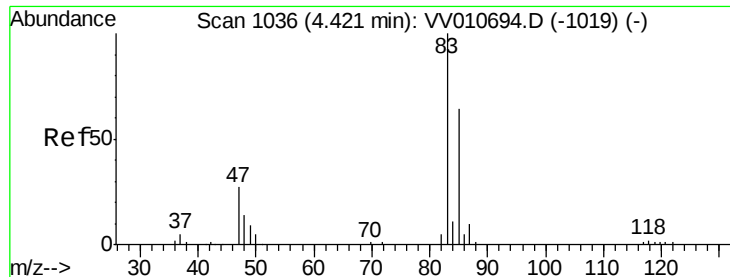
Bromochloromethane
Concen: 27.029 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Tgt Ion: 128 Resp: 21074
Ion Ratio Lower Upper
128 100
49 168.3 122.6 227.8
130 126.5 84.0 156.0
51 52.5 45.0 67.4



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0

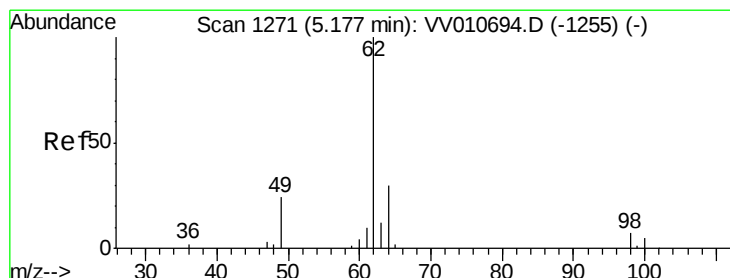
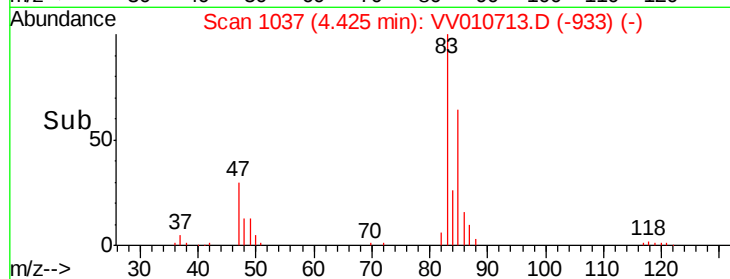
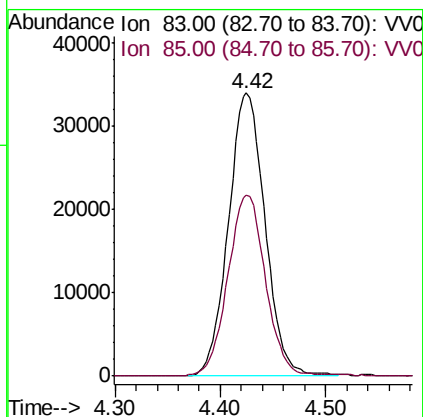
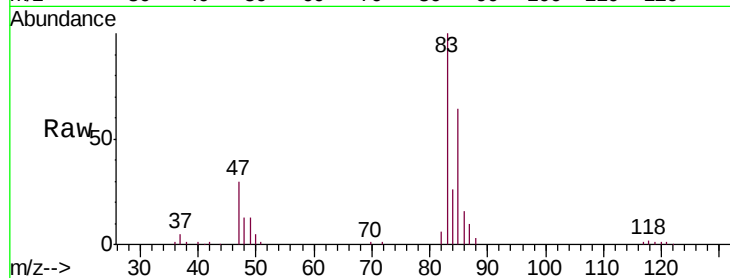




#25
Chloroform
Concen: 25.388 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

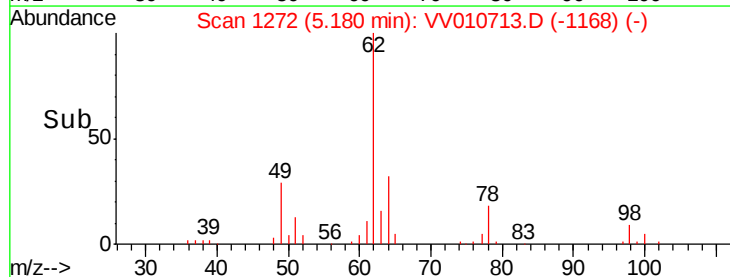
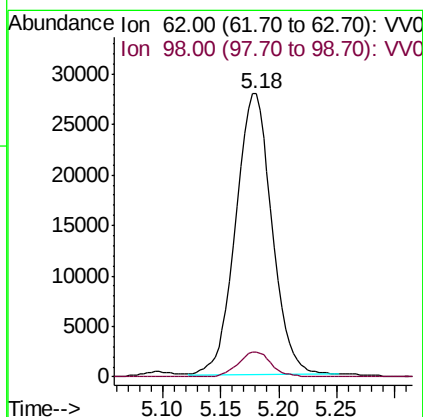
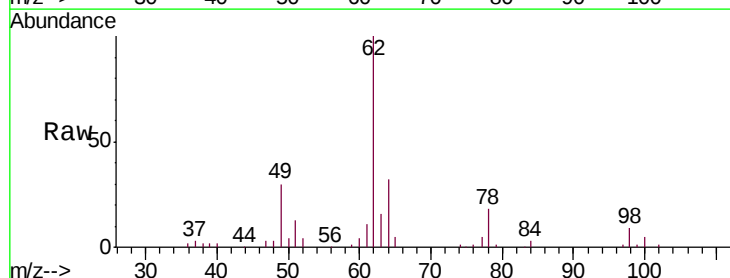
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

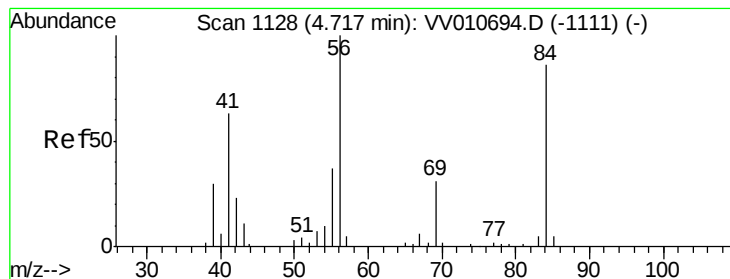
Tgt Ion: 83 Resp: 81983
Ion Ratio Lower Upper
83 100
85 65.6 44.6 82.8



#27
1,2-Dichloroethane
Concen: 25.665 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Tgt Ion: 62 Resp: 60578
Ion Ratio Lower Upper
62 100
98 8.7 6.3 9.5





#30

Cyclohexane

Concen: 21.085 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

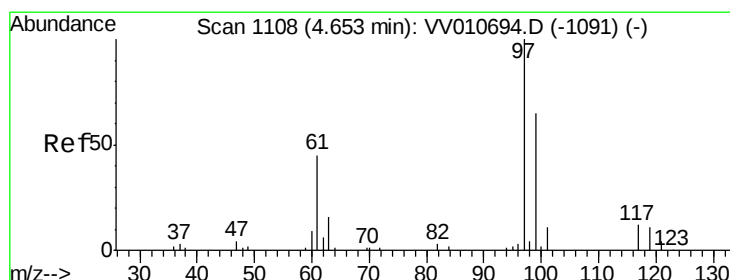
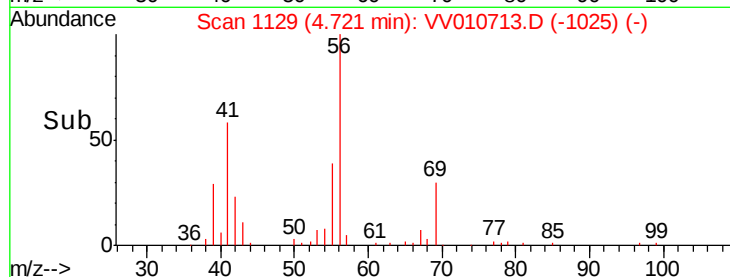
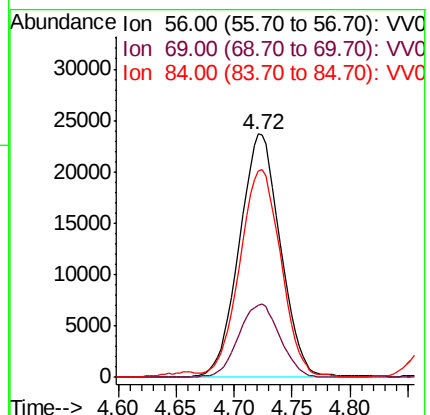
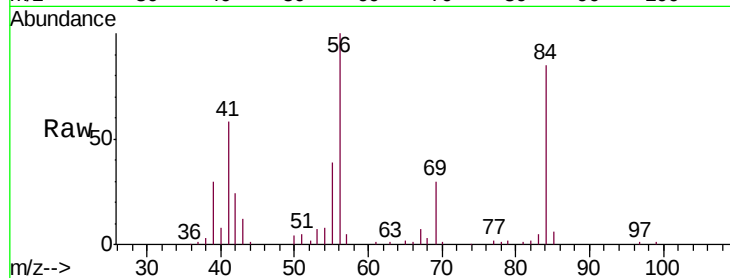
Tgt Ion: 56 Resp: 58449

Ion Ratio Lower Upper

56 100

69 30.2 24.2 36.4

84 85.8 66.5 99.7



#31

1,1,1-Trichloroethane

Concen: 23.062 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

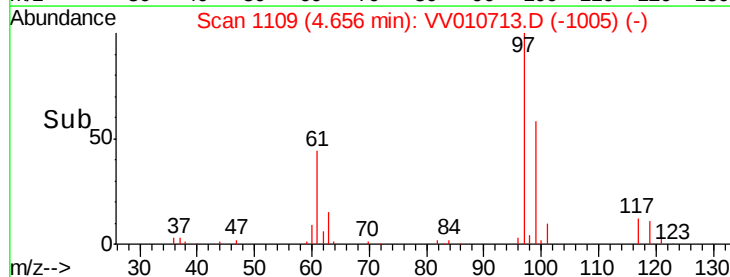
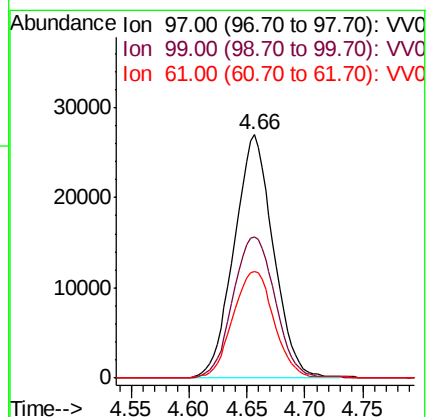
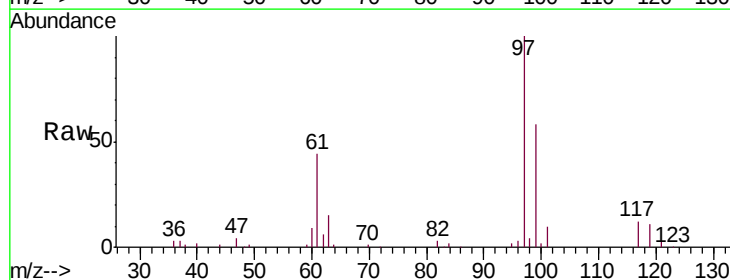
Tgt Ion: 97 Resp: 63555

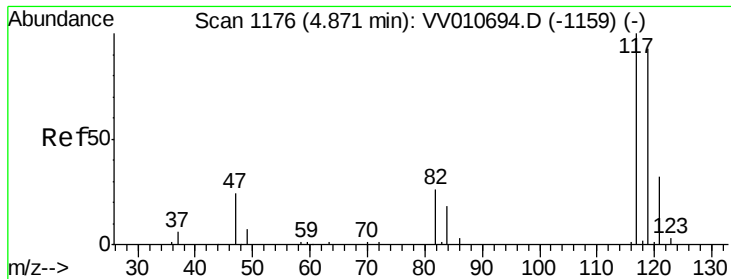
Ion Ratio Lower Upper

97 100

99 62.2 50.2 75.2

61 45.7 36.7 55.1





#32

Carbon tetrachloride

Concen: 21.594 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

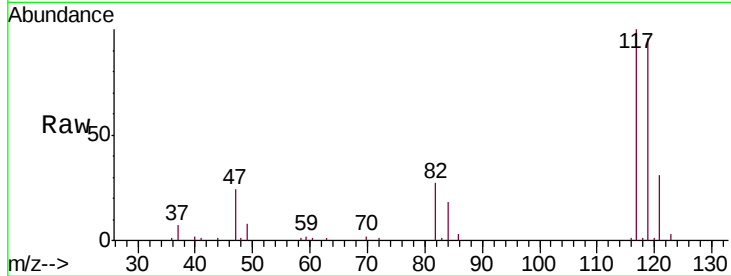
VSTD02587

Tgt Ion:117 Resp: 51837

Ion Ratio Lower Upper

117 100

119 95.7 74.9 112.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

25000

20000

15000

10000

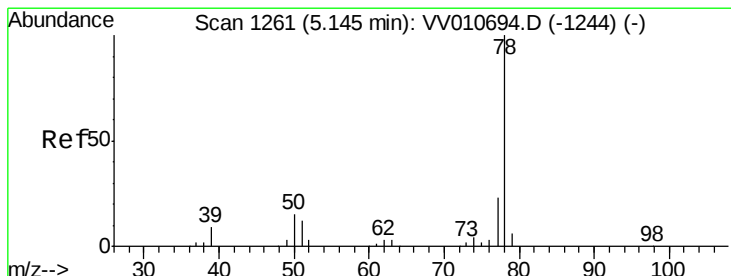
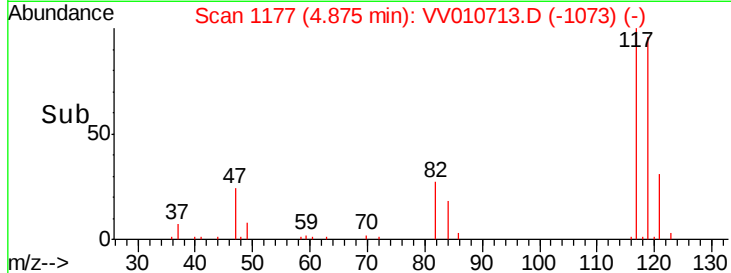
5000

0

4.87

4.80 4.85 4.90 4.95

Time-->



#34

Benzene

Concen: 25.600 ug/L

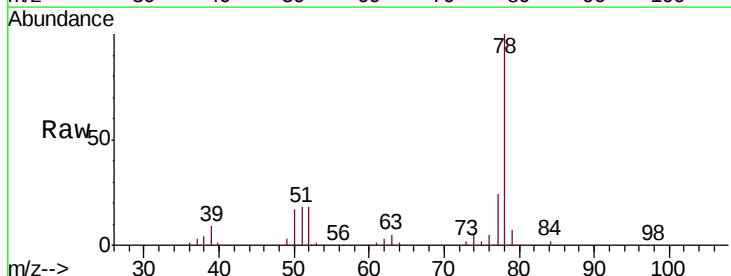
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Tgt Ion: 78 Resp: 166104



Abundance Ion 78.00 (77.70 to 78.70): VV0

80000

60000

40000

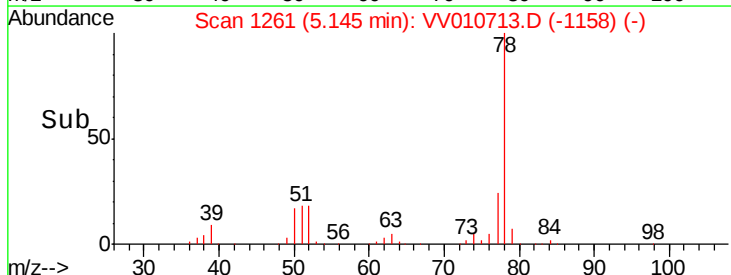
20000

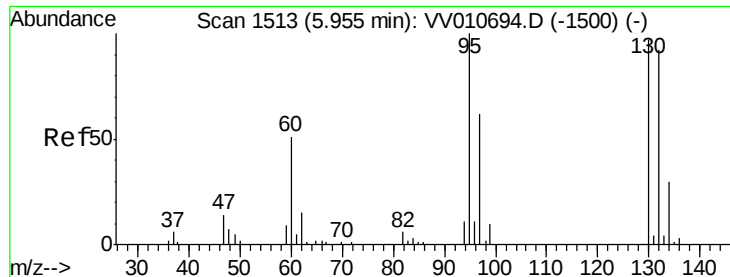
0

5.14

5.00 5.10 5.20

Time-->





#35

Trichloroethene

Concen: 23.750 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

Tgt Ion: 95 Resp: 43165

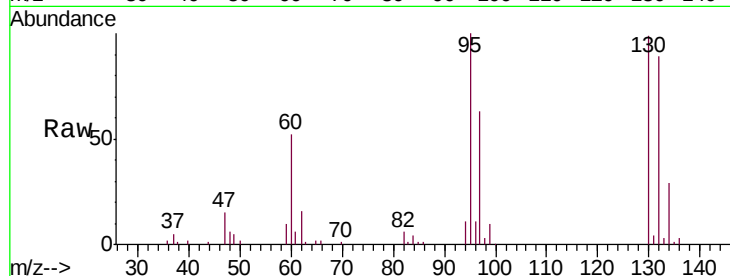
Ion Ratio Lower Upper

95 100

97 65.0 44.3 82.3

132 89.8 62.4 115.8

130 98.9 68.5 127.3

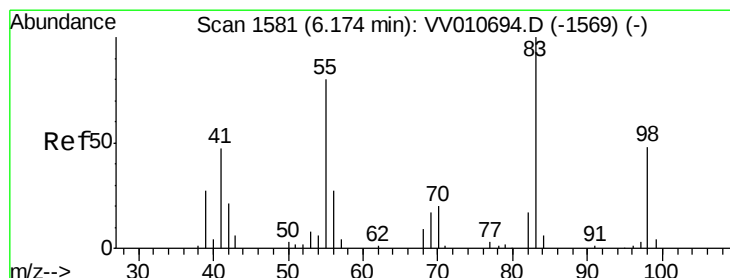
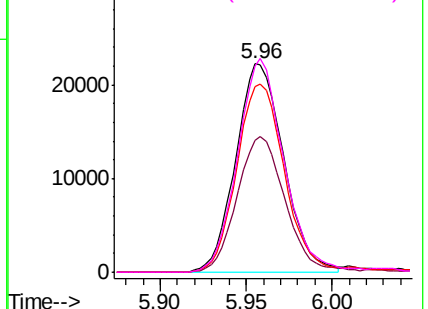
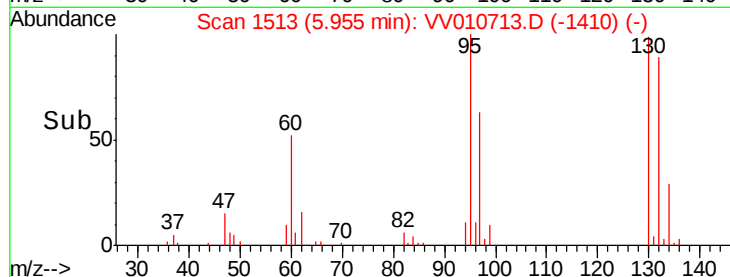


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 21.894 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

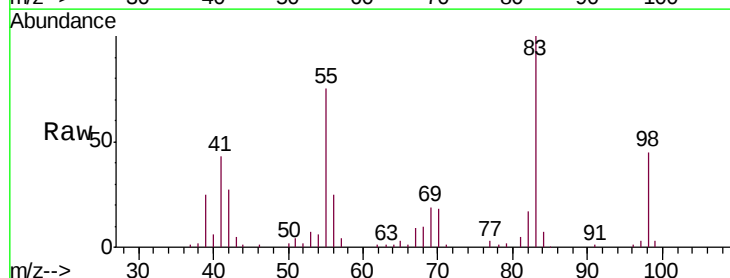
Tgt Ion: 83 Resp: 63774

Ion Ratio Lower Upper

83 100

55 77.0 64.6 96.8

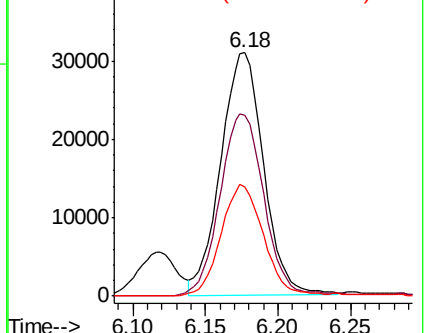
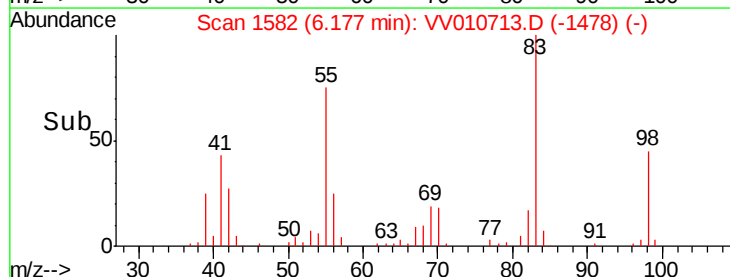
98 44.9 37.7 56.5

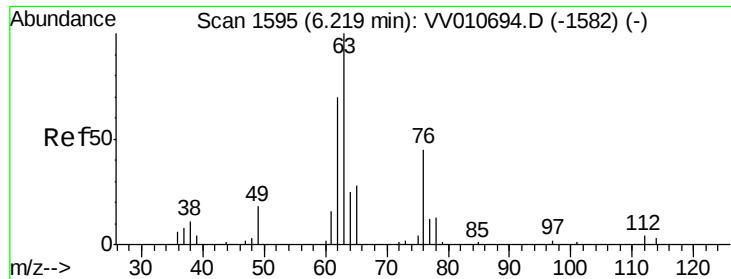


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

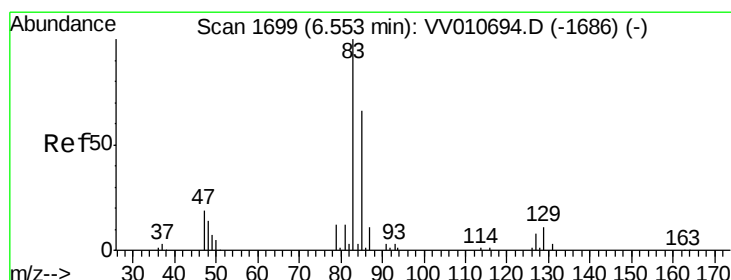
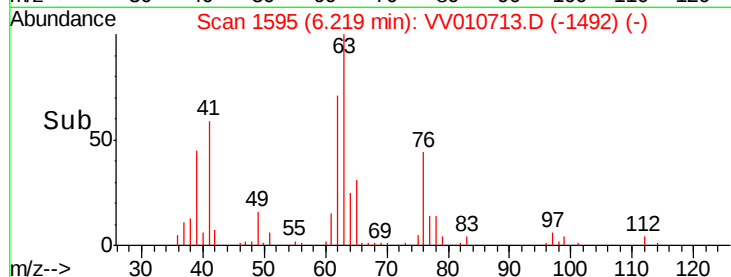
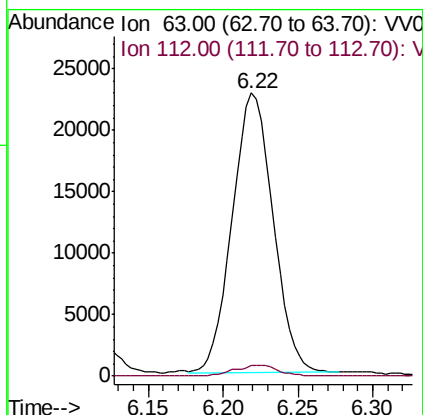
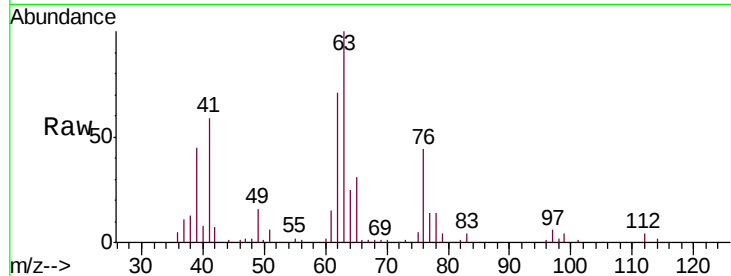




#40
 1,2-Dichloropropane
 Concen: 25.188 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV010713.D
 Acq: 08 May 2019 02:22

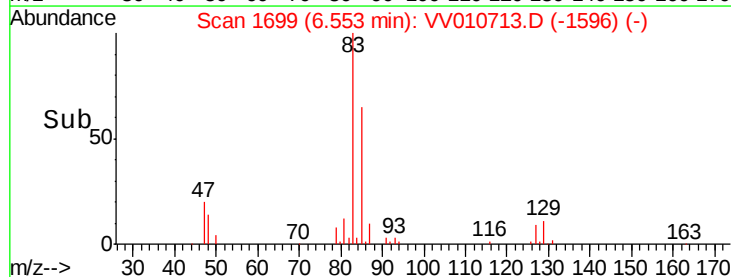
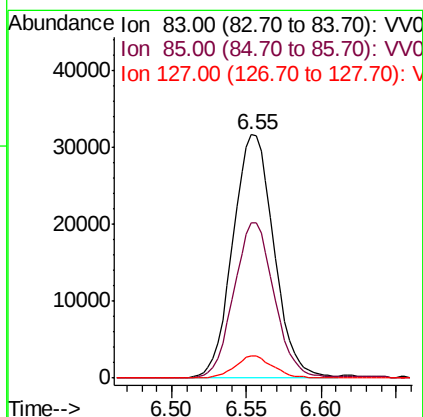
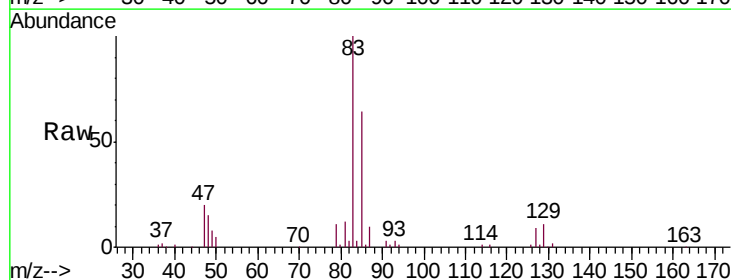
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

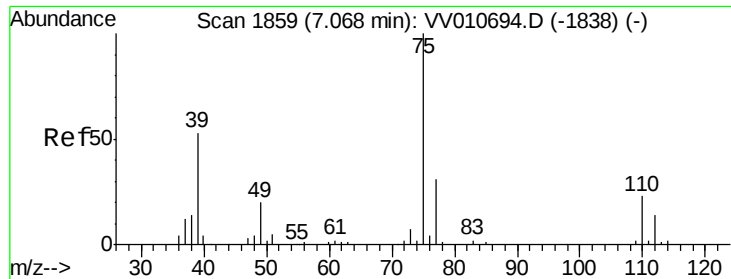
Tgt Ion: 63 Resp: 43475
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.4 5.2



#41
 Bromodichloromethane
 Concen: 25.555 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV010713.D
 Acq: 08 May 2019 02:22

Tgt Ion: 83 Resp: 60608
 Ion Ratio Lower Upper
 83 100
 85 63.6 43.5 80.7
 127 9.2 6.2 9.4



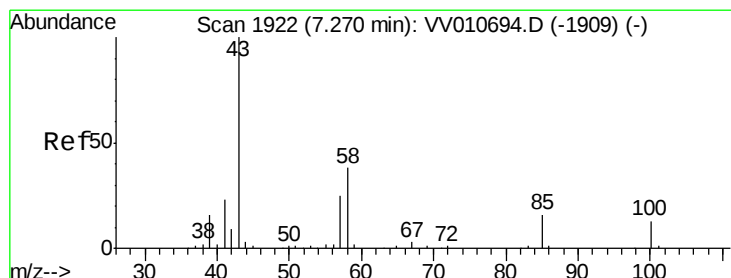
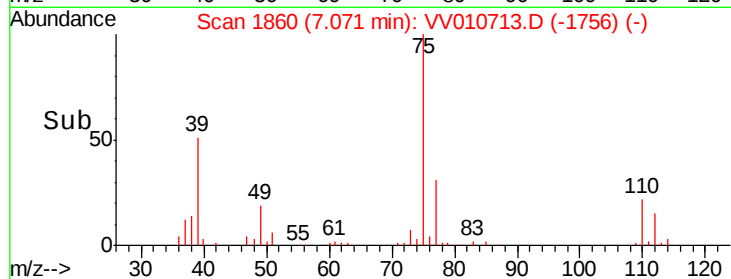
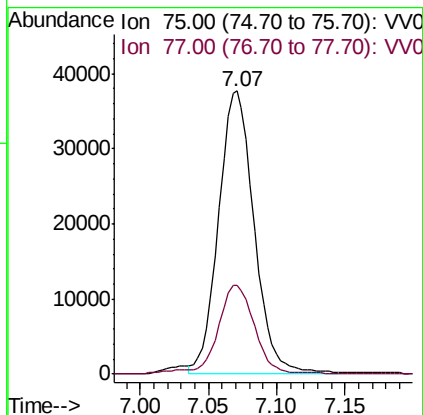
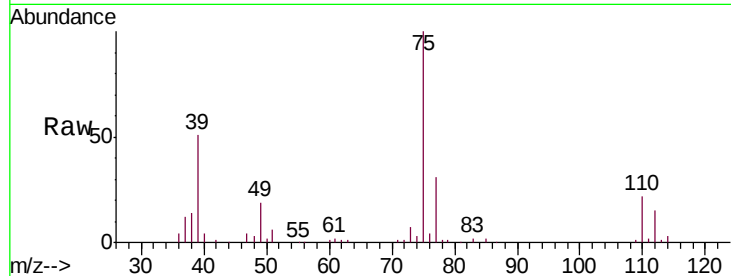


#42

cis-1,3-Dichloropropene
Concen: 25.080 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

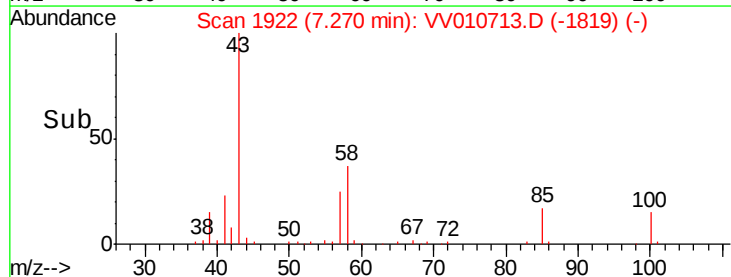
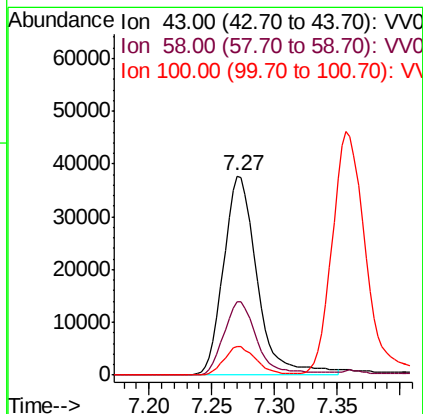
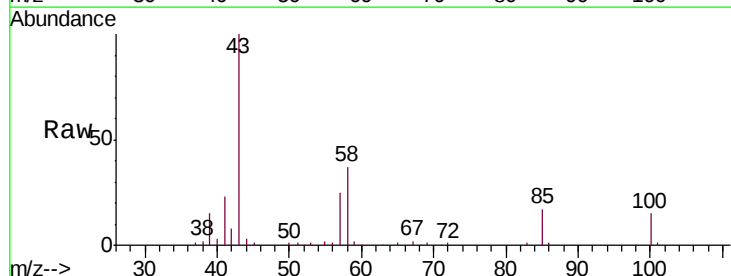
Tgt Ion: 75 Resp: 68471
Ion Ratio Lower Upper
75 100
77 31.4 22.3 41.3

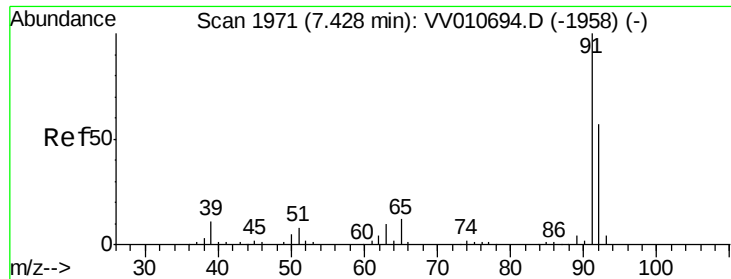


#43

4-Methyl-2-pentanone
Concen: 48.644 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Tgt Ion: 43 Resp: 70675
Ion Ratio Lower Upper
43 100
58 36.3 28.1 42.1
100 13.6 11.0 16.6





#44

Toluene

Concen: 24.222 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

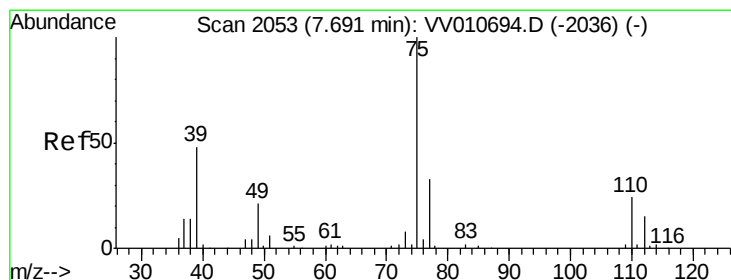
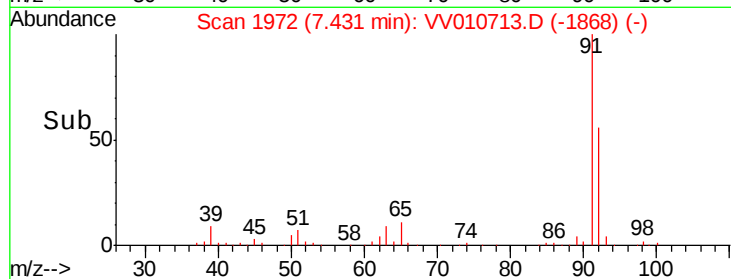
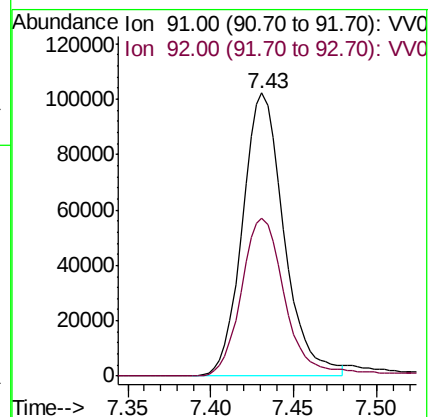
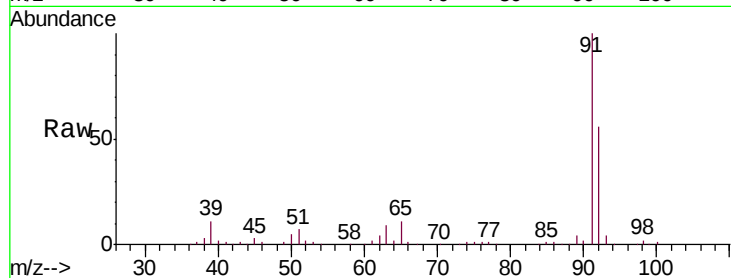
VSTD02587

Tgt Ion: 91 Resp: 178496

Ion Ratio Lower Upper

91 100

92 55.7 40.1 74.5



#45

trans-1,3-Dichloropropene

Concen: 24.821 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010713.D

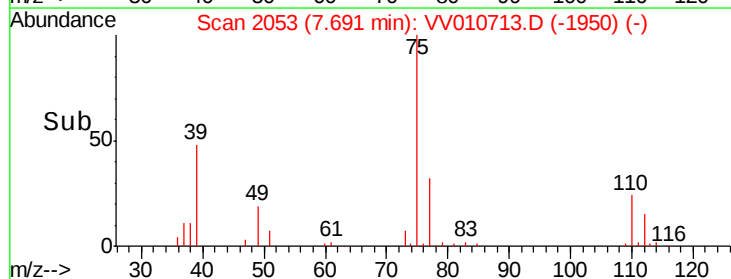
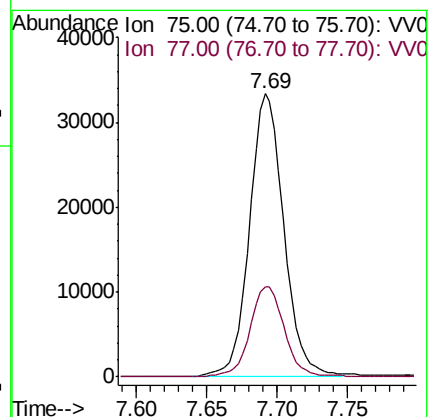
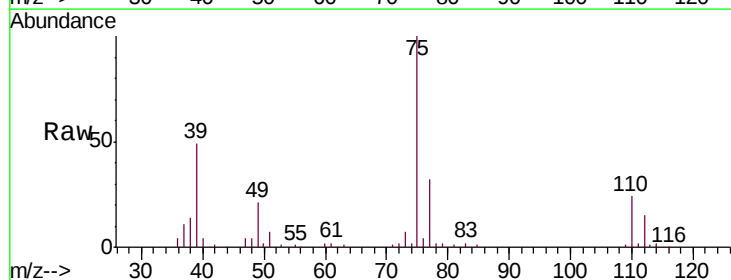
Acq: 08 May 2019 02:22

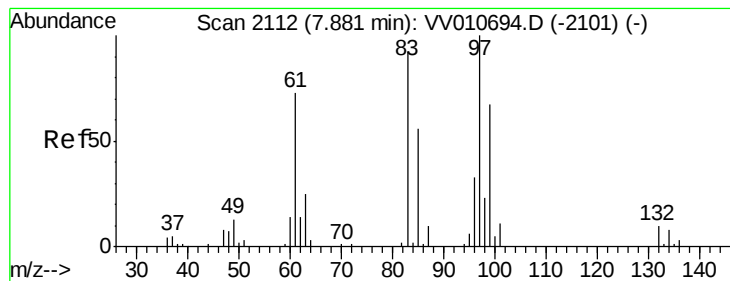
Tgt Ion: 75 Resp: 57061

Ion Ratio Lower Upper

75 100

77 32.0 22.3 41.3





#46

1,1,2-Trichloroethane

Concen: 25.337 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

Tgt Ion: 97 Resp: 35927

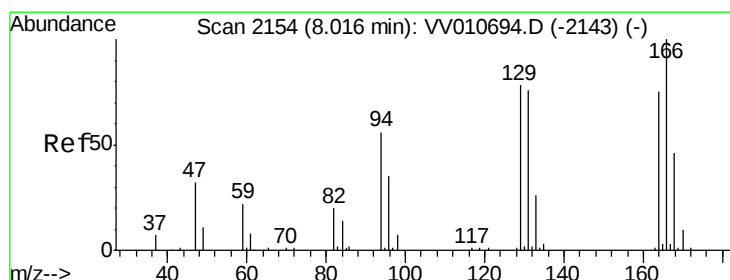
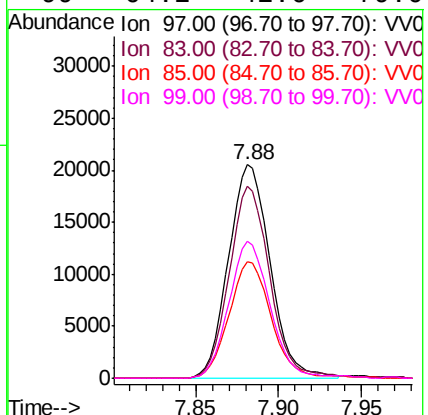
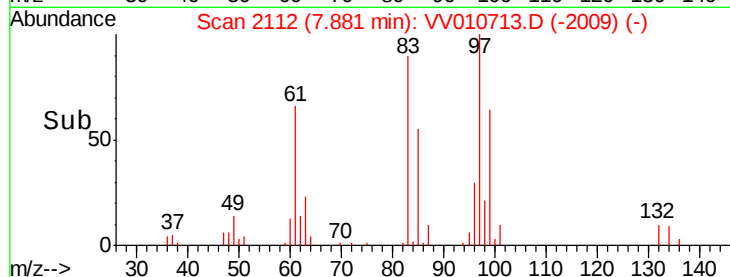
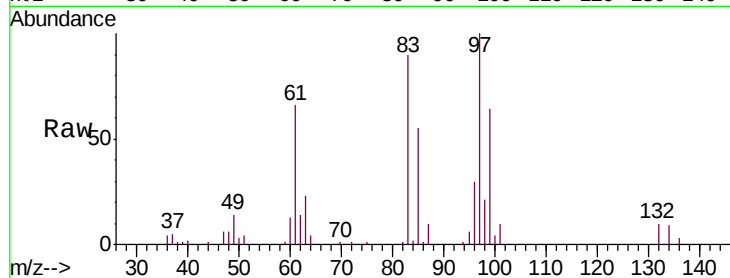
Ion Ratio Lower Upper

97 100

83 89.8 62.8 116.6

85 54.7 40.2 74.6

99 64.2 42.6 79.0



#47

Tetrachloroethene

Concen: 21.502 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Tgt Ion: 164 Resp: 28302

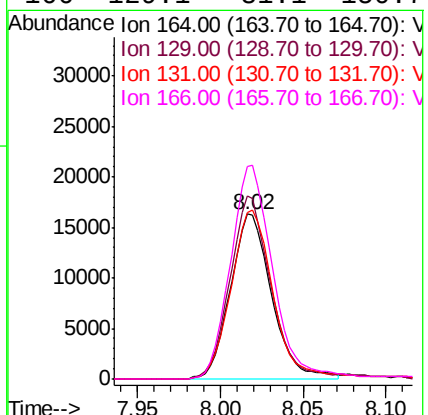
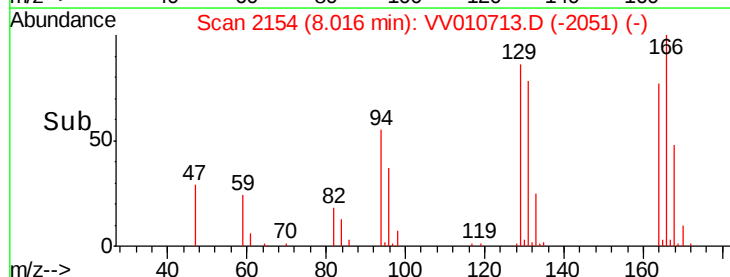
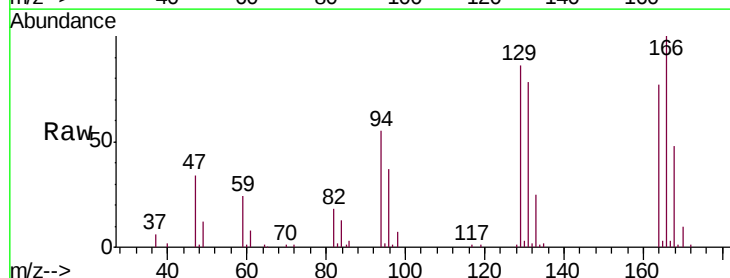
Ion Ratio Lower Upper

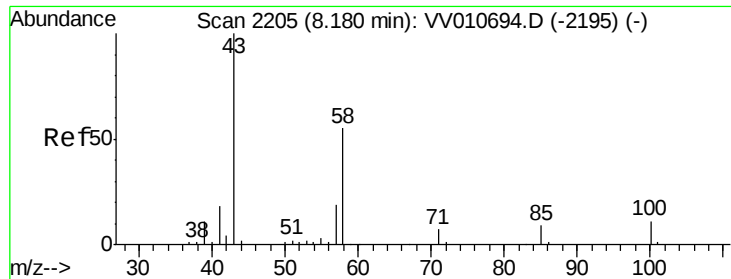
164 100

129 111.5 69.3 128.7

131 101.0 67.3 125.1

166 129.1 81.1 150.7

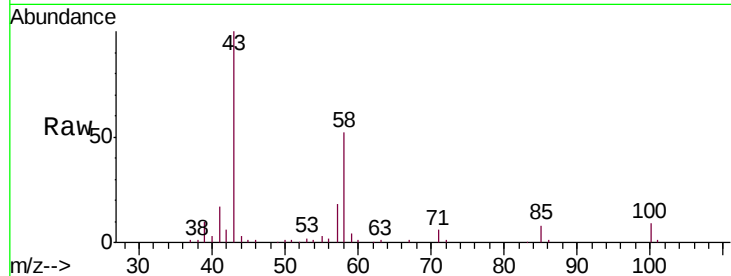




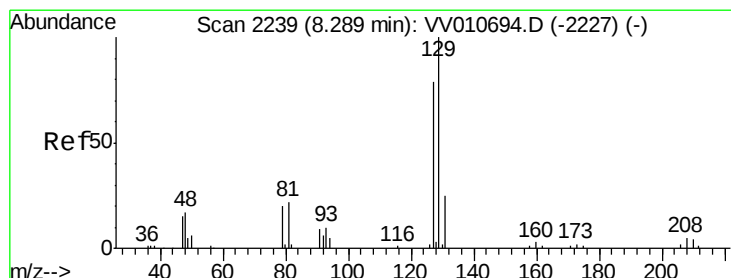
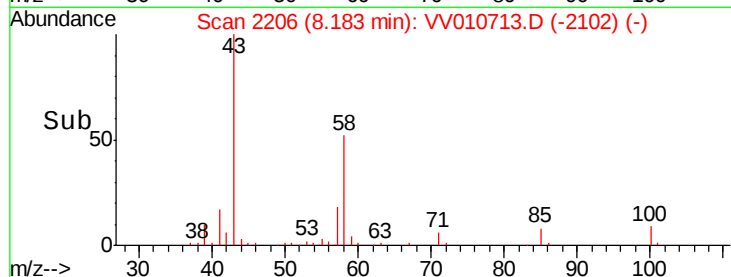
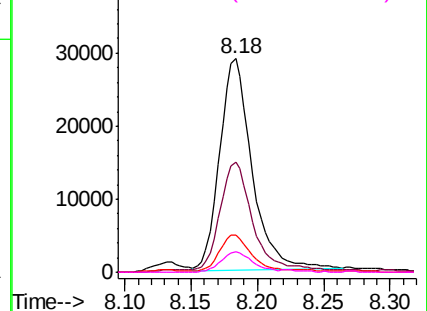
#49
2-Hexanone
Concen: 44.489 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

Tgt Ion: 43 Resp: 49144
Ion Ratio Lower Upper
43 100
58 51.8 39.4 59.0
57 16.9 14.2 21.4
100 9.5 8.2 12.2

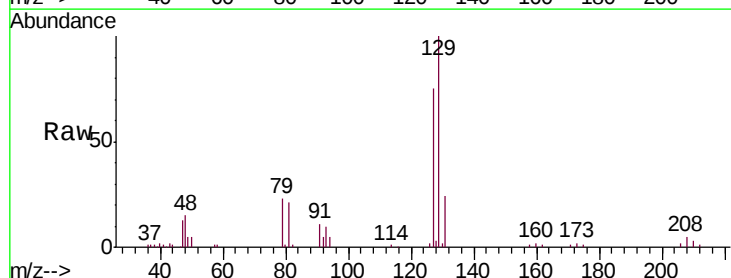


Abundance Ion 43.00 (42.70 to 43.70): VV010713.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV010713.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV010713.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV010713.D (-2195) (-)

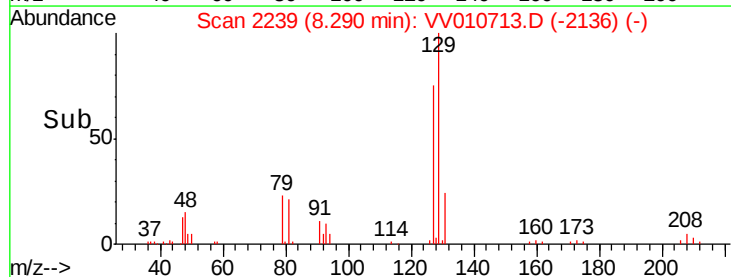
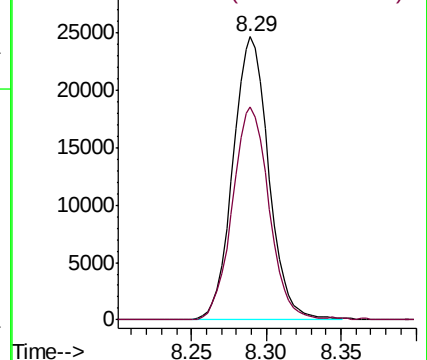


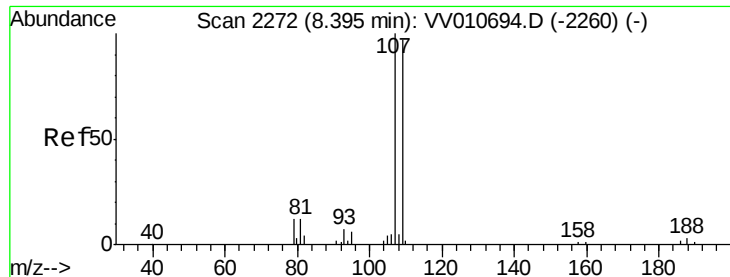
#50
Dibromochloromethane
Concen: 25.186 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Tgt Ion: 129 Resp: 41068
Ion Ratio Lower Upper
129 100
127 75.1 54.5 101.1



Abundance Ion 129.00 (128.70 to 129.70): VV010713.D (-2136) (-)
Ion 127.00 (126.70 to 127.70): VV010713.D (-2136) (-)





#51

1,2-Dibromoethane

Concen: 25.975 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

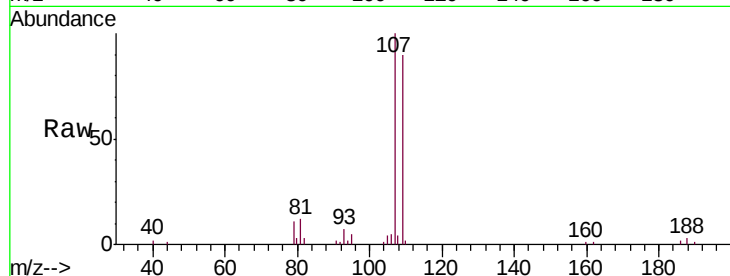
Tgt Ion:107 Resp: 35574

Ion Ratio Lower Upper

107 100

109 89.9 66.6 123.6

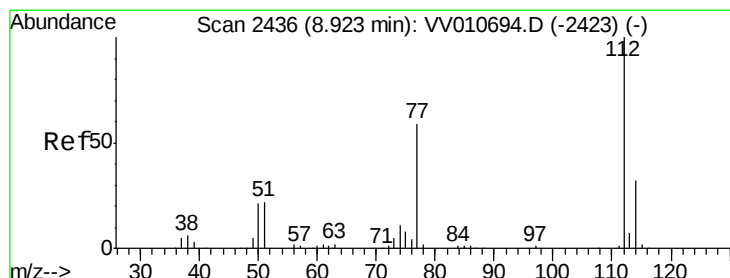
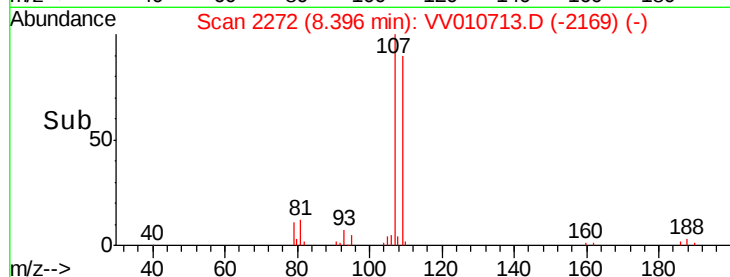
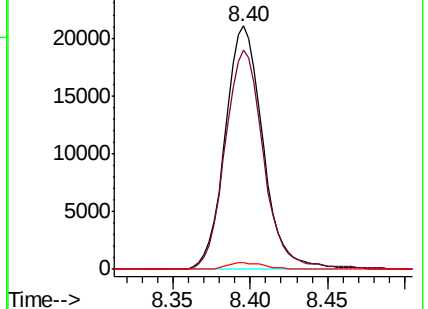
188 2.7 2.7 4.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 25.244 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

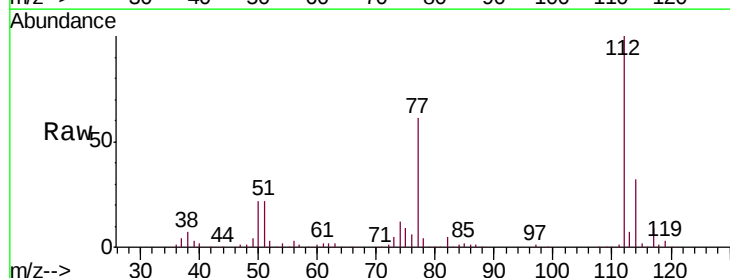
Tgt Ion:112 Resp: 121536

Ion Ratio Lower Upper

112 100

77 61.3 47.7 71.5

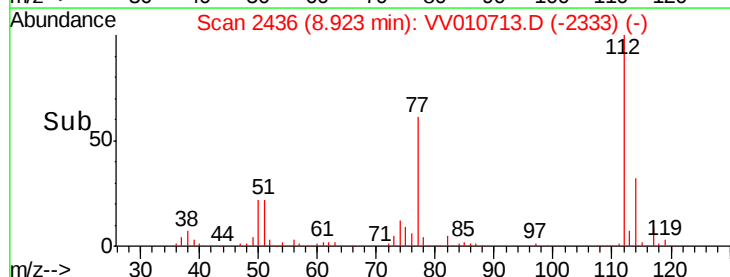
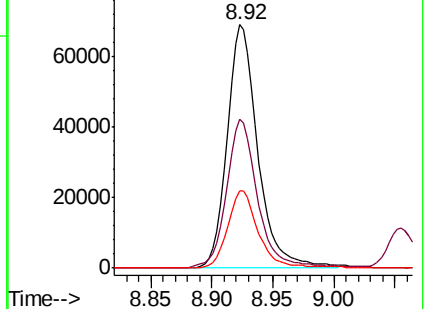
114 31.8 22.1 41.1

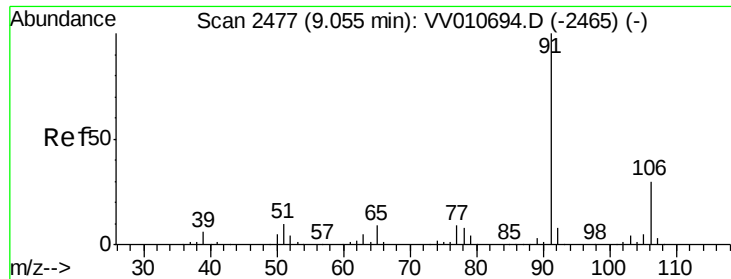


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.395 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

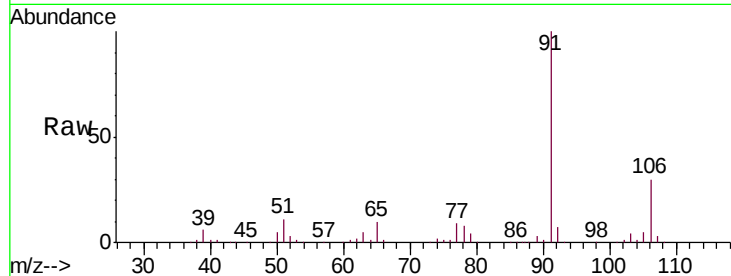
VSTD02587

Tgt Ion: 91 Resp: 208444

Ion Ratio Lower Upper

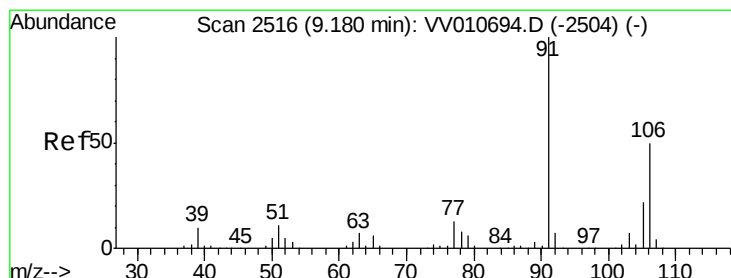
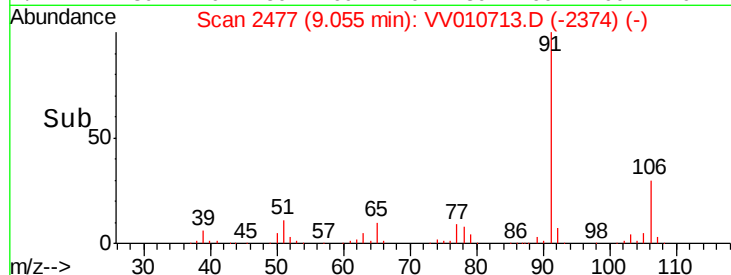
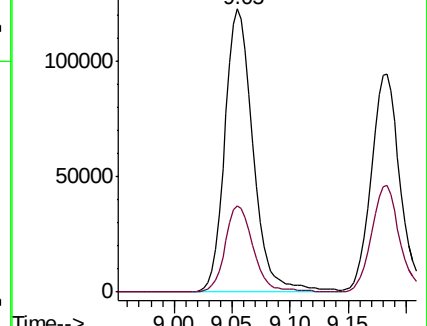
91 100

106 30.4 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV010713.D (-2374) (-)

Ion 106.00 (105.70 to 106.70): VV010713.D (-2374) (-)



#54

m,p-Xylene

Concen: 24.325 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV010713.D

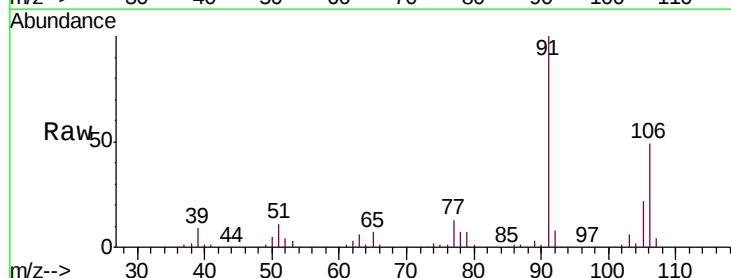
Acq: 08 May 2019 02:22

Tgt Ion: 106 Resp: 77652

Ion Ratio Lower Upper

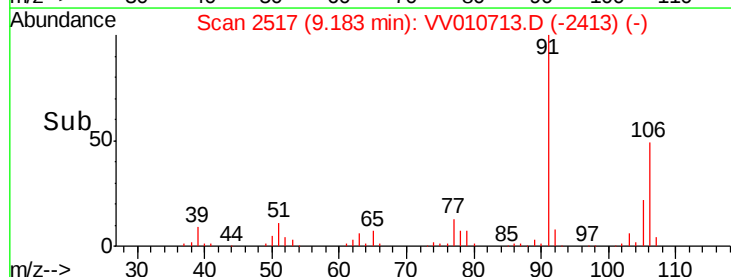
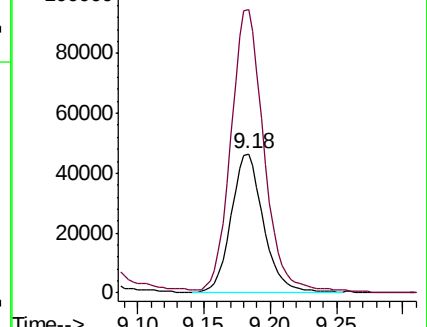
106 100

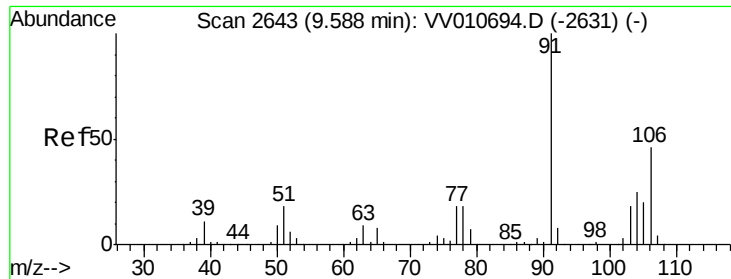
91 203.8 145.4 270.0



Abundance Ion 106.00 (105.70 to 106.70): VV010713.D (-2413) (-)

Ion 91.00 (90.70 to 91.70): VV010713.D (-2413) (-)

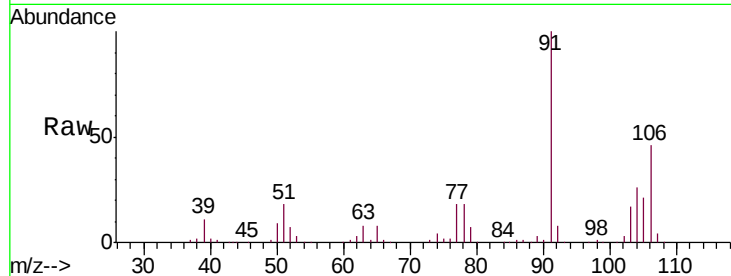




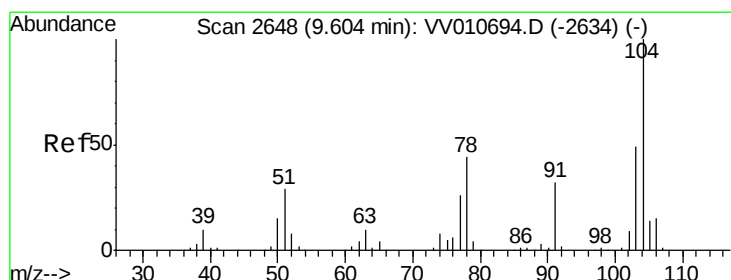
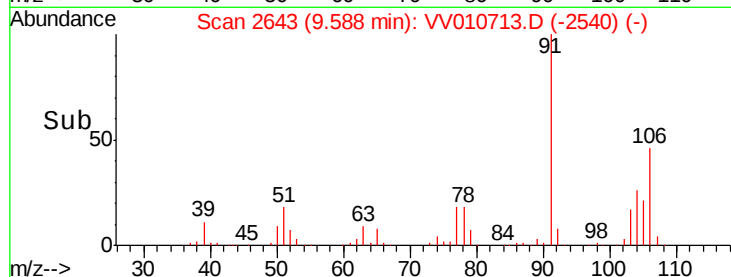
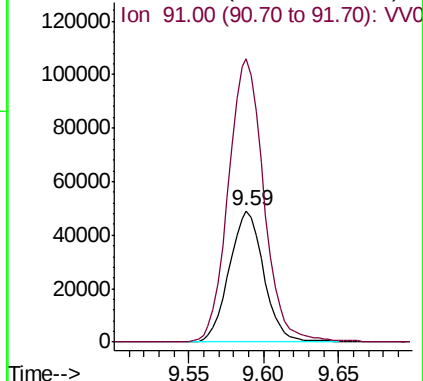
#55
o-xylene
Concen: 25.057 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

Tgt Ion:106 Resp: 79341
Ion Ratio Lower Upper
106 100
91 215.9 151.0 280.4

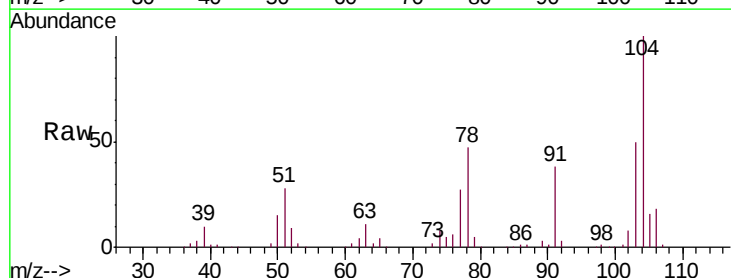


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

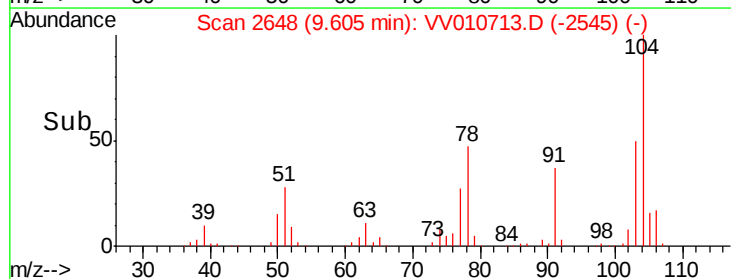
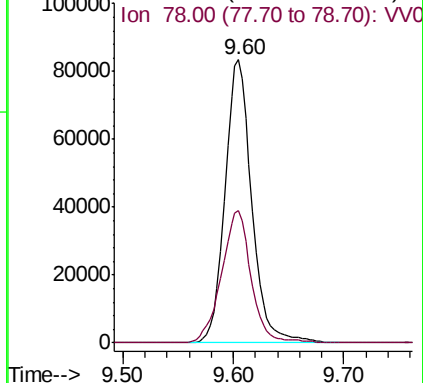


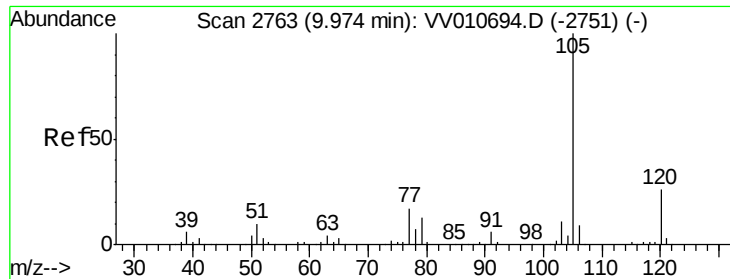
#56
Styrene
Concen: 26.211 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV010713.D
Acq: 08 May 2019 02:22

Tgt Ion:104 Resp: 140376
Ion Ratio Lower Upper
104 100
78 46.6 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.833 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

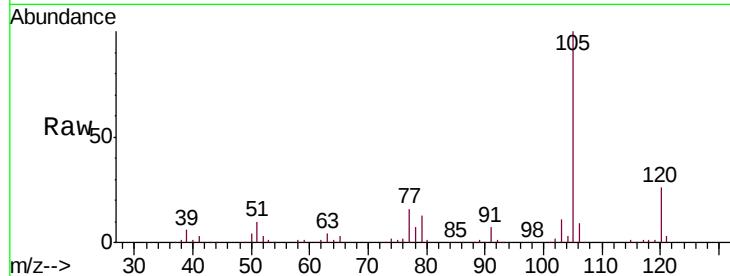
Tgt Ion: 105 Resp: 201344

Ion Ratio Lower Upper

105 100

120 26.0 20.9 31.3

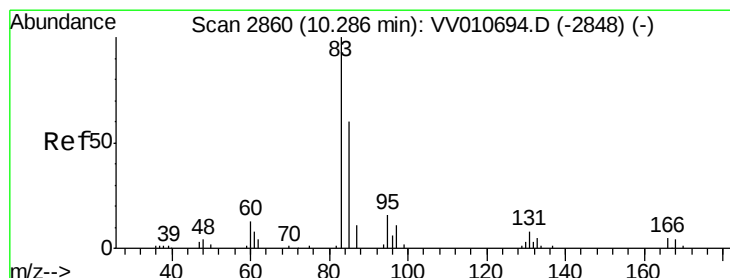
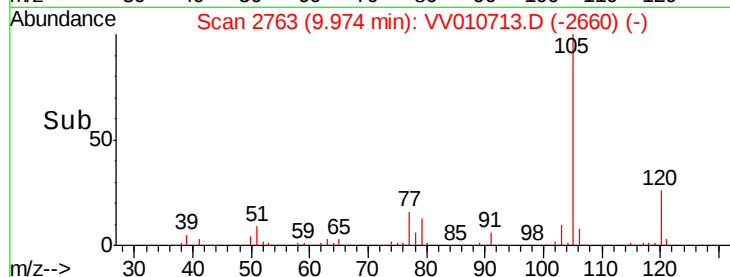
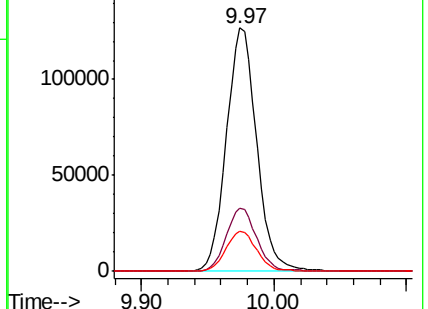
77 16.7 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.240 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

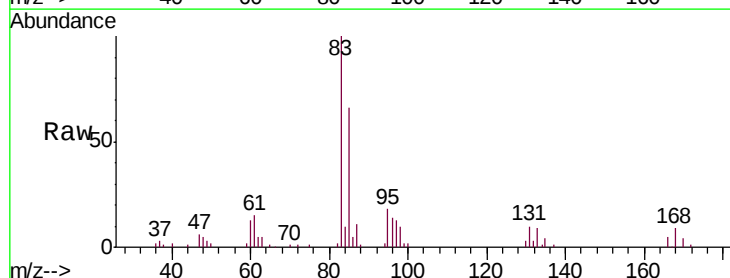
Tgt Ion: 83 Resp: 45031

Ion Ratio Lower Upper

83 100

85 65.9 44.6 82.8

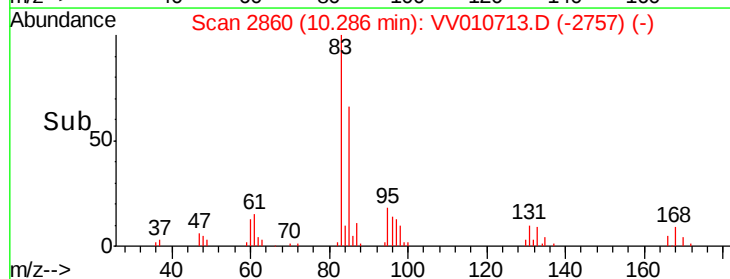
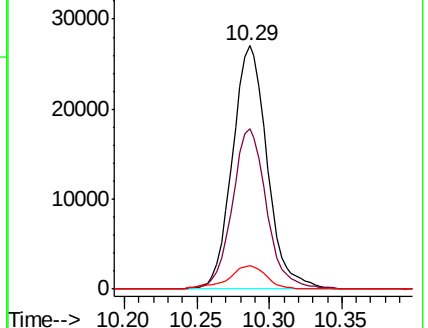
131 9.6 7.9 11.9

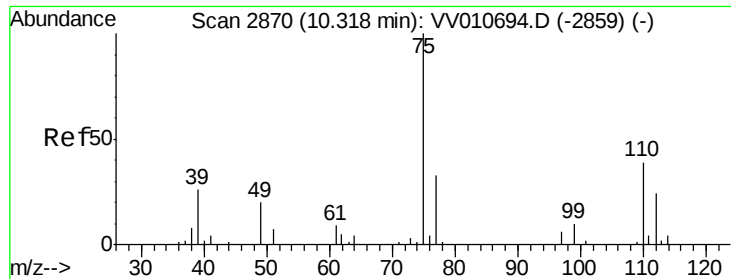


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.846 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

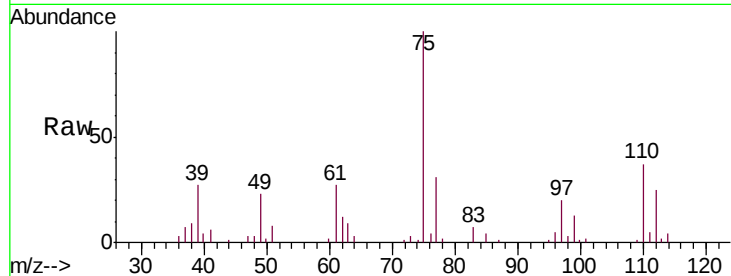
VSTD02587

Tgt Ion: 75 Resp: 34574

Ion Ratio Lower Upper

75 100

77 32.5 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VV010694.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV010694.D (-2859) (-)

10.32

25000

20000

15000

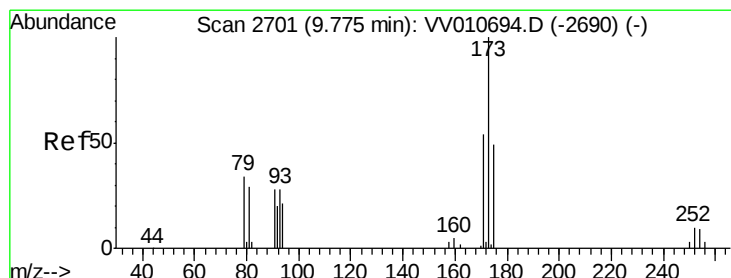
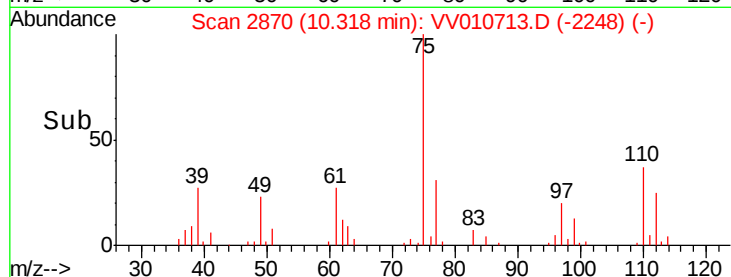
10000

5000

0

Time-->

10.25 10.30 10.35 10.40



#62

Bromoform

Concen: 23.719 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

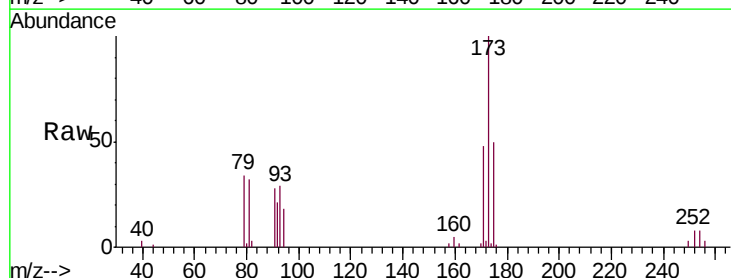
Tgt Ion: 173 Resp: 21166

Ion Ratio Lower Upper

173 100

175 48.0 38.6 58.0

254 7.2 6.5 9.7



Abundance Ion 173.00 (172.70 to 173.70): VV010694.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV010694.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV010694.D (-2690) (-)

9.77

15000

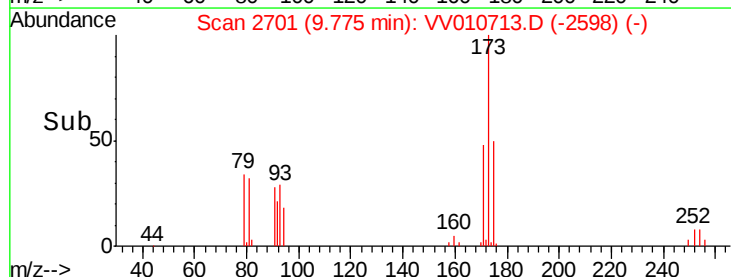
10000

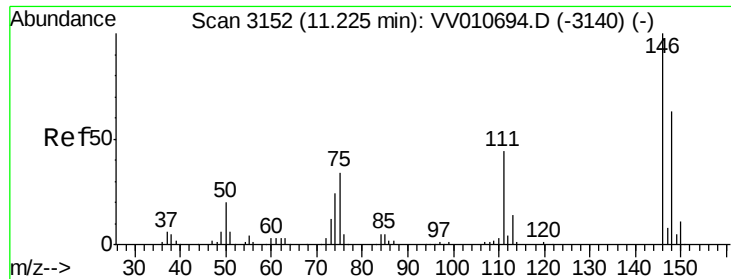
5000

0

Time-->

9.70 9.75 9.80 9.85

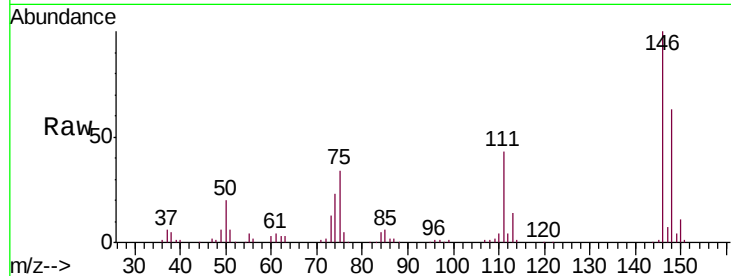




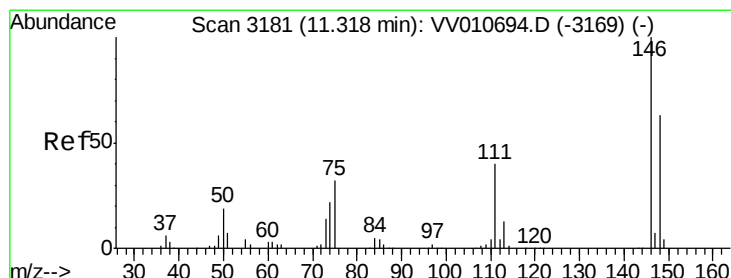
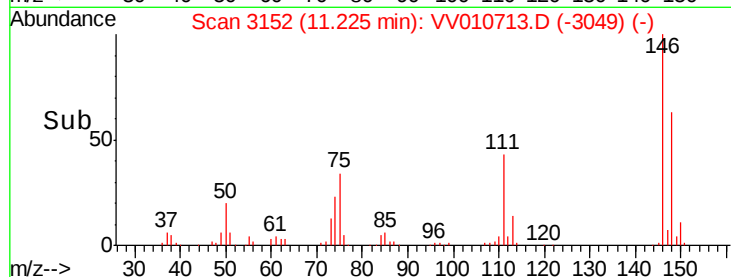
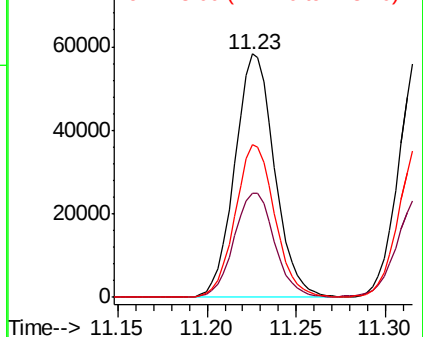
#63
 1,3-Dichlorobenzene
 Concen: 24.929 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV010713.D
 Acq: 08 May 2019 02:22

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

Tgt Ion:146 Resp: 90934
 Ion Ratio Lower Upper
 146 100
 111 42.8 30.6 56.8
 148 62.5 44.9 83.5

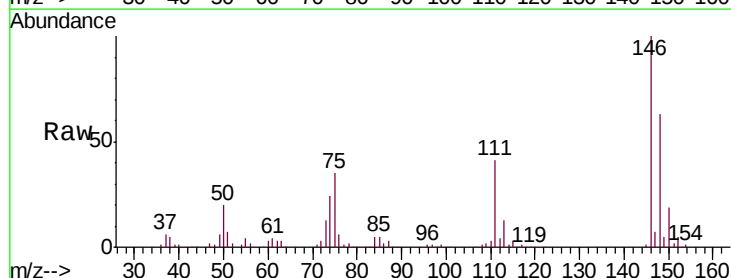


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

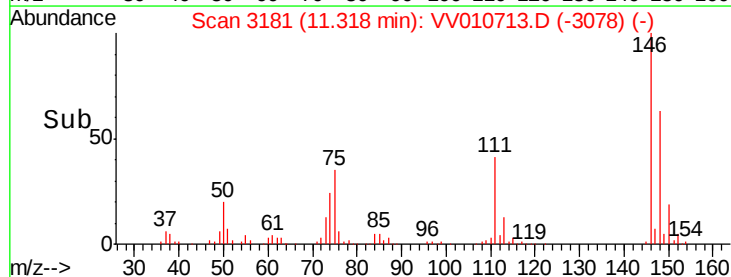
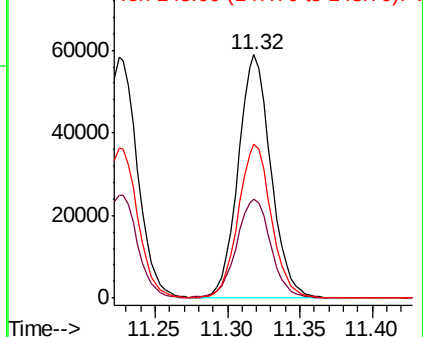


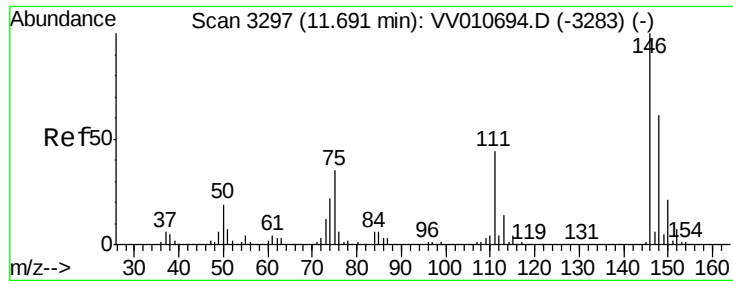
#64
 1,4-Dichlorobenzene
 Concen: 24.638 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010713.D
 Acq: 08 May 2019 02:22

Tgt Ion:146 Resp: 91805
 Ion Ratio Lower Upper
 146 100
 111 40.6 27.4 50.8
 148 63.1 45.1 83.9



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





#65

1,2-Dichlorobenzene

Concen: 25.195 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

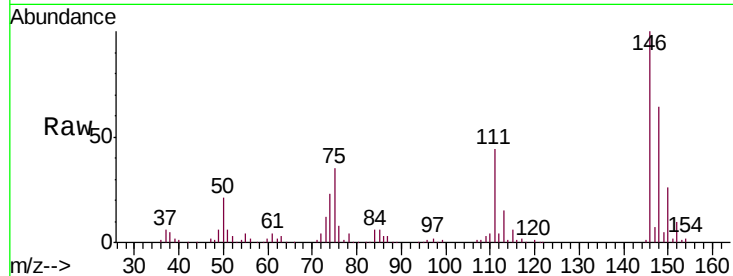
Tgt Ion: 146 Resp: 89265

Ion Ratio Lower Upper

146 100

111 44.4 37.0 55.4

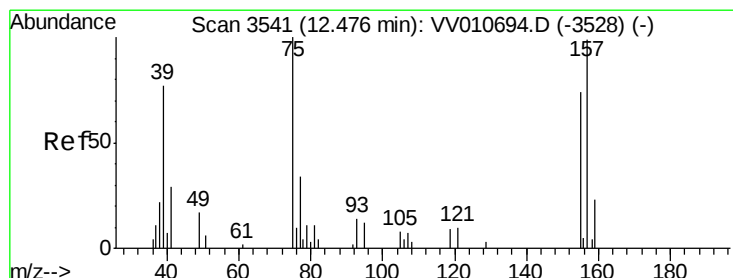
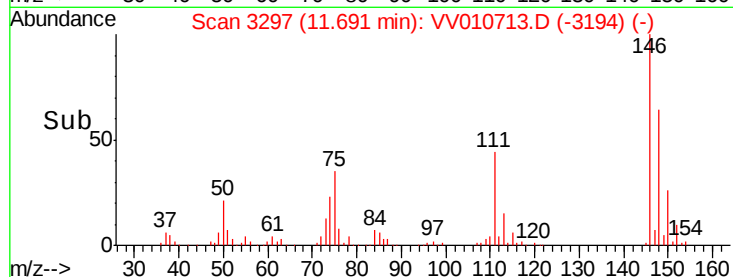
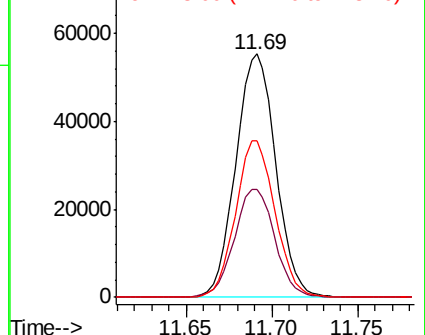
148 64.2 51.3 76.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 22.631 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

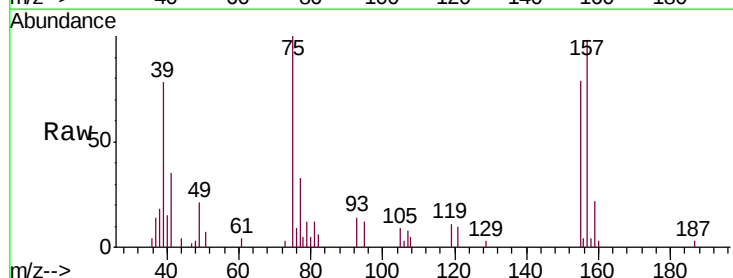
Tgt Ion: 75 Resp: 7440

Ion Ratio Lower Upper

75 100

157 98.0 76.9 115.3

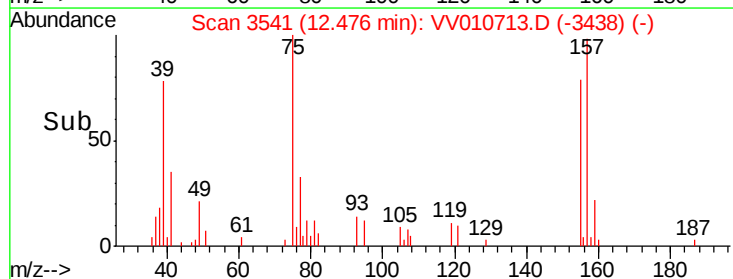
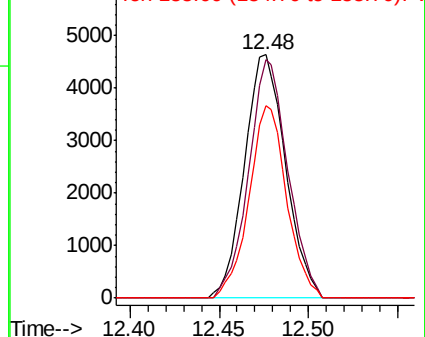
155 79.0 57.9 86.9

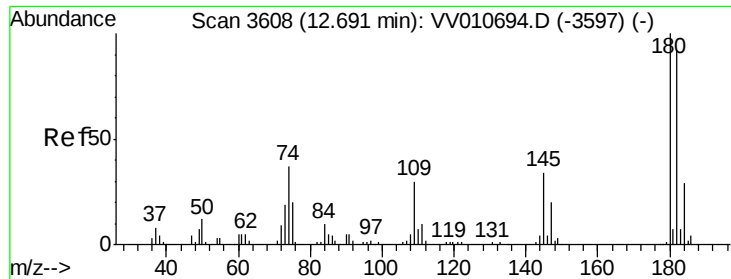


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

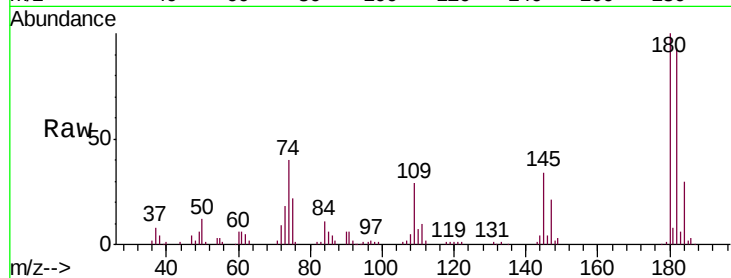




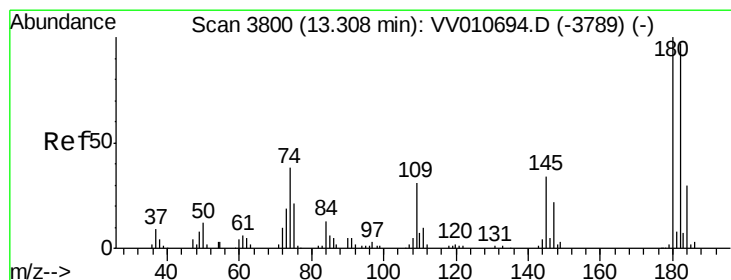
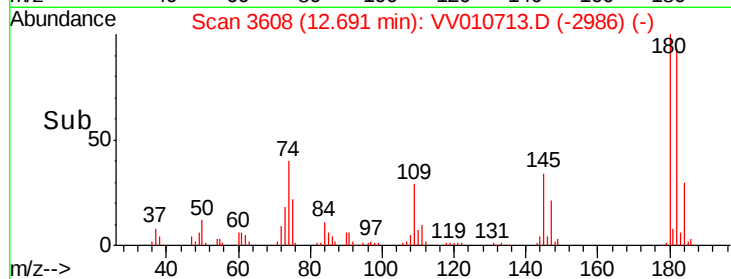
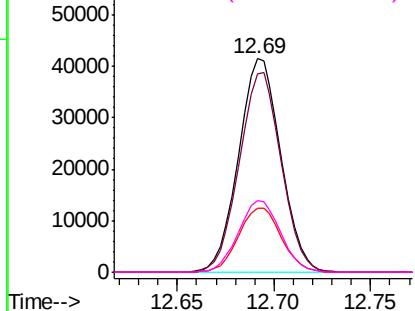
#67
 1,3,5-Trichlorobenzene
 Concen: 23.888 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV010713.D
 Acq: 08 May 2019 02:22

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

Tgt Ion:180 Resp: 62769
 Ion Ratio Lower Upper
 180 100
 182 93.2 74.7 112.1
 184 30.5 23.7 35.5
 145 33.5 26.0 39.0

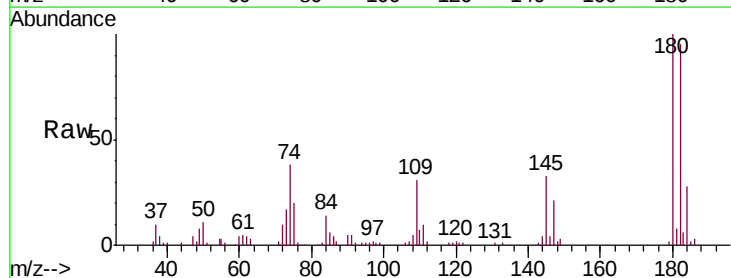


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

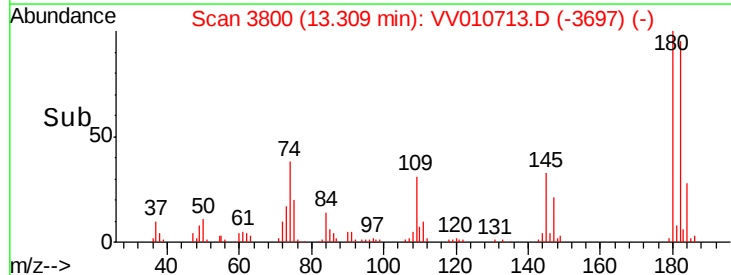
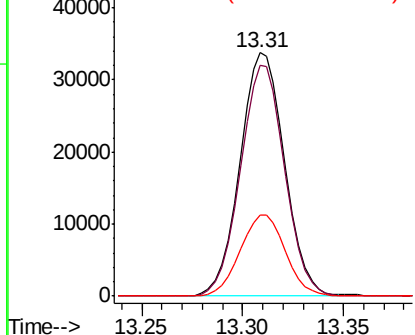


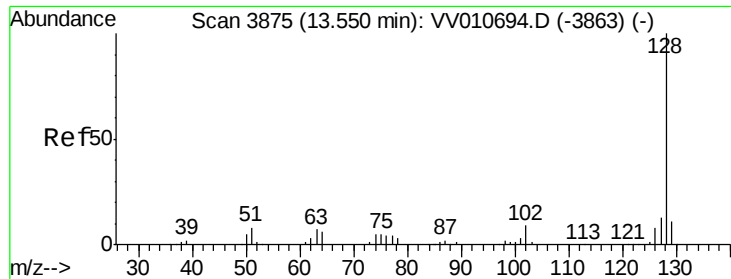
#68
 1,2,4-trichlorobenzene
 Concen: 25.650 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV010713.D
 Acq: 08 May 2019 02:22

Tgt Ion:180 Resp: 52151
 Ion Ratio Lower Upper
 180 100
 182 94.2 77.1 115.7
 145 34.0 28.3 42.5



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





#69

Naphthalene

Concen: 26.485 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

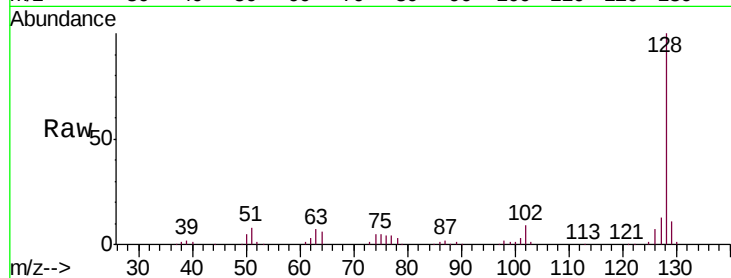
Tgt Ion:128 Resp: 115261

Ion Ratio Lower Upper

128 100

129 10.9 8.3 12.5

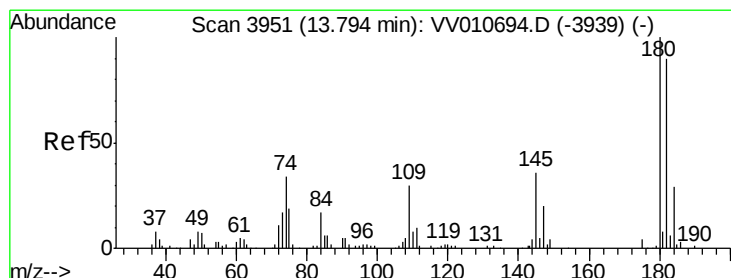
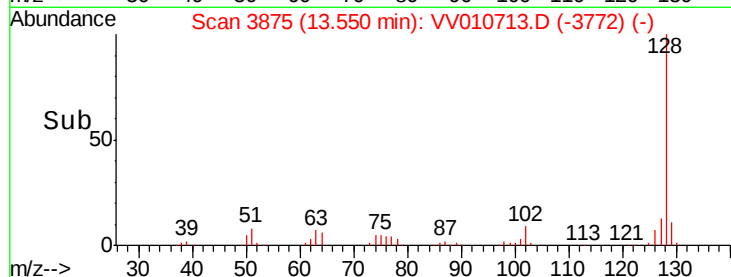
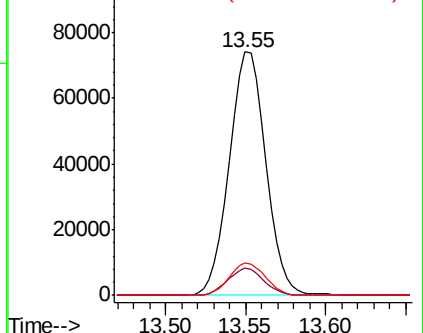
127 13.1 10.8 16.2



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: 26.438 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010713.D

Acq: 08 May 2019 02:22

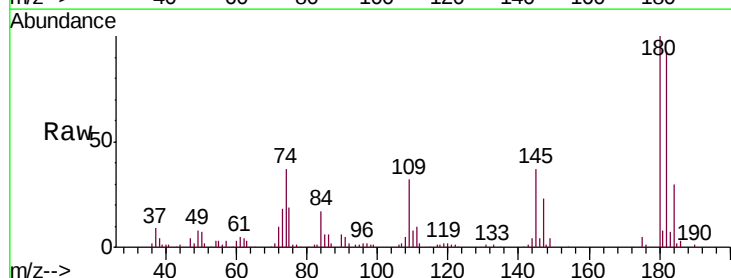
Tgt Ion:180 Resp: 50421

Ion Ratio Lower Upper

180 100

182 92.4 74.3 111.5

145 35.2 28.5 42.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

