

Data File : VV012442.D
Acq On : 29 Aug 2019 20:08
Operator : SY/MD
Sample : VSTD02033
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

Quant Time: Aug 30 05:26:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Aug 30 05:22:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	244325	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	233470	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	120370	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	405687	68.09	ug/L	0.00
7) Chloroethane-d5	1.58	69	292674	61.22	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	672894	37.38	ug/L	0.00
20) 2-Butanone-d5	3.96	46	926807	238.06	ug/L	0.00
24) Chloroform-d	4.40	84	702525	27.47	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	339396	31.61	ug/L	0.00
32) Benzene-d6	5.10	84	1421861	40.87	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	438758	30.25	ug/L	0.00
41) Toluene-d8	7.36	98	1327962	38.24	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	168617	31.32	ug/L	0.00
46) 2-Hexanone-d5	8.13	63	743430	265.24	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	311594	23.01	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	461663	24.66	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	644353	18.543 ug/L	99
3) Chloromethane	1.25	50	606686	20.839 ug/L	99
5) Vinyl chloride	1.32	62	574761	21.344 ug/L	99
6) Bromomethane	1.54	94	307658	21.595 ug/L	98
8) Chloroethane	1.60	64	303558	21.341 ug/L	100
9) Trichlorofluoromethane	1.77	101	759474	20.676 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	375175	20.930 ug/L	99
12) 1,1-Dichloroethene	2.14	96	353561	20.731 ug/L	97
13) Acetone	2.22	43	590978	207.980 ug/L	98
14) Carbon disulfide	2.32	76	1080858	20.930 ug/L	100
15) Methyl Acetate	2.47	43	153785	22.095 ug/L	98
16) Methylene chloride	2.53	84	362910	19.597 ug/L	97
17) Methyl tert-butyl Ether	2.81	73	1017826	20.089 ug/L	100
18) trans-1,2-Dichloroethene	2.78	96	464258	19.880 ug/L	100
19) 1,1-Dichloroethane	3.23	63	899800	19.618 ug/L	99
21) 2-Butanone	4.04	43	1281072	221.117 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	513377	20.521 ug/L	98
23) Bromochloromethane	4.30	128	207022	19.578 ug/L	97
25) Chloroform	4.42	83	877219	18.340 ug/L	99
27) 1,2-Dichloroethane	5.18	62	536097	19.876 ug/L	98
29) 1,1,1-Trichloroethane	4.65	97	757853	19.837 ug/L	99
30) Cyclohexane	4.72	56	867396	22.346 ug/L	98
31) Carbon tetrachloride	4.87	117	669367	19.949 ug/L	98
33) Benzene	5.14	78	1990694	20.609 ug/L	100
34) Trichloroethene	5.96	95	503105	20.100 ug/L	99
35) Methylcyclohexane	6.17	83	864707	22.550 ug/L	96
37) 1,2-Dichloropropane	6.22	63	506015	20.554 ug/L	99
38) Bromodichloromethane	6.55	83	627296	19.839 ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	748138	23.013 ug/L	100
40) 4-Methyl-2-pentanone	7.27	43	3122137	222.424 ug/L	98

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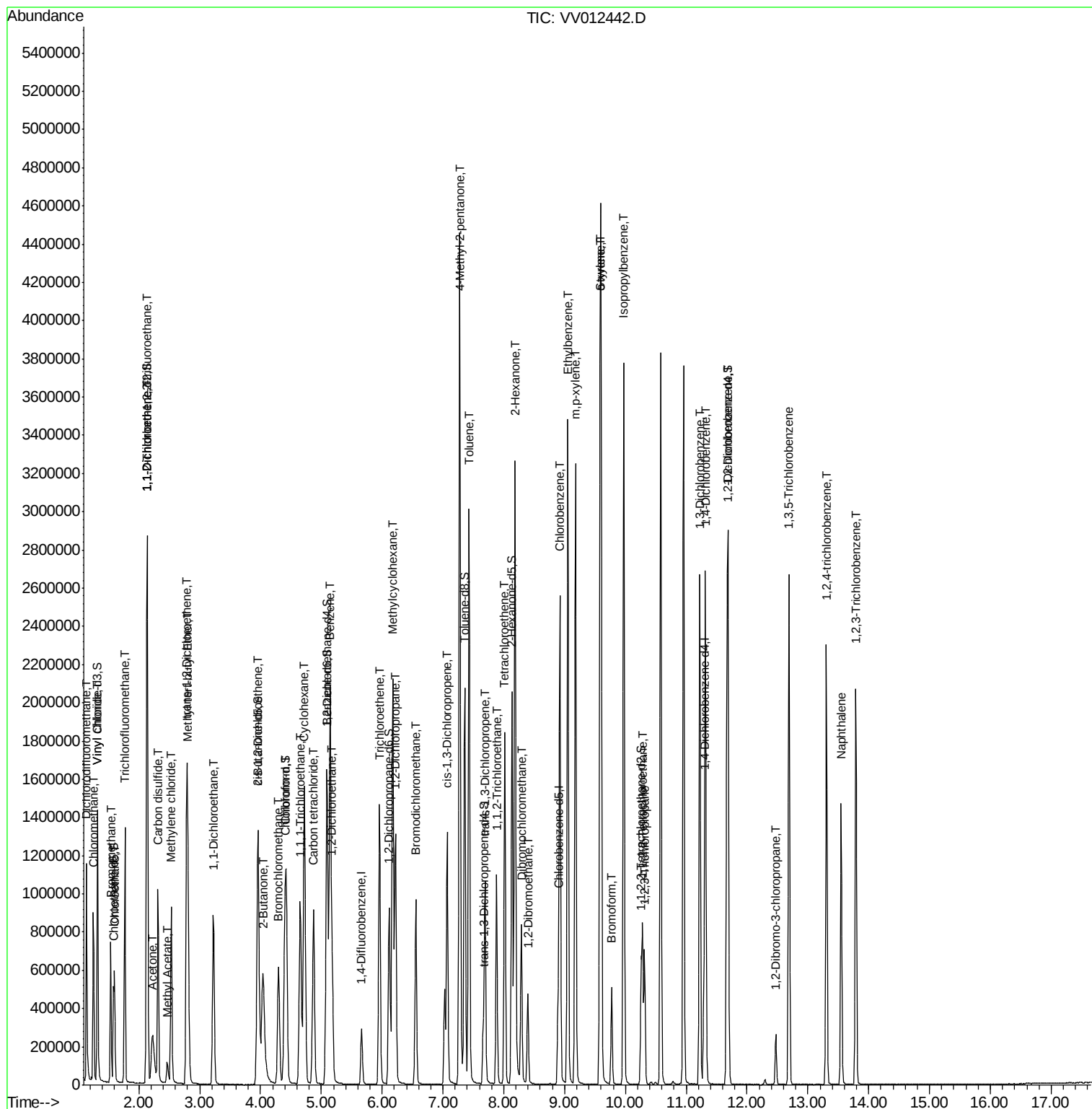
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	2104213	21.181	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	573101	22.630	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	326659	19.821	ug/L	99
47) Tetrachloroethene	8.02	164	403288	19.784	ug/L	99
48) 2-Hexanone	8.18	43	2210298	228.596	ug/L	99
49) Dibromochloromethane	8.29	129	400057	20.488	ug/L	99
50) 1,2-Dibromoethane	8.40	107	302925	20.313	ug/L	99
51) Chlorobenzene	8.92	112	1299178	20.435	ug/L	98
52) Ethylbenzene	9.05	91	2363048	22.145	ug/L	99
53) m,p-xylene	9.18	106	892699	22.458	ug/L	99
54) o-xylene	9.59	106	870527	22.822	ug/L	94
55) Styrene	9.60	104	1474883	22.988	ug/L	99
56) Isopropylbenzene	9.97	105	2329959	22.929	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	389857	19.851	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	279512	19.965	ug/L	99
61) Bromoform	9.77	173	221319	19.419	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	1041593	20.256	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	1024582	19.909	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	953827	19.852	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	62244	18.588	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	819068	20.749	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	670399	21.975	ug/L	99
69) Naphthalene	13.55	128	1109431	23.666	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	617965	21.034	ug/L	99

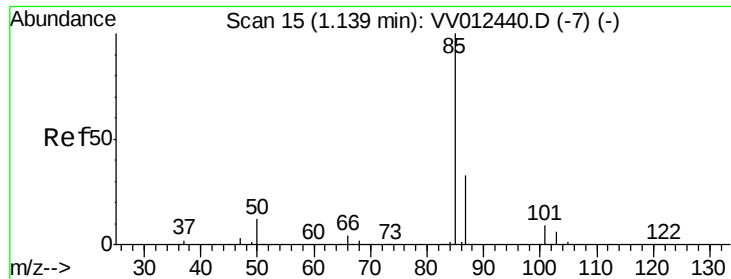
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 18.543 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

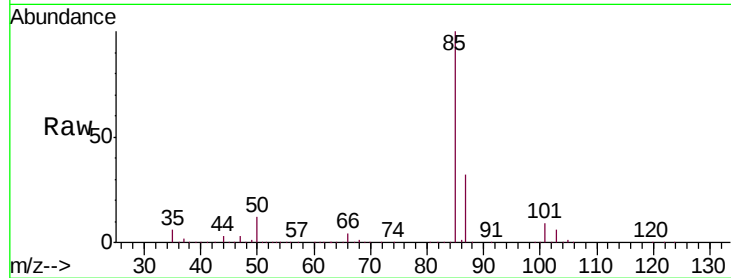
VSTD02033

Tgt Ion: 85 Resp: 644353

Ion Ratio Lower Upper

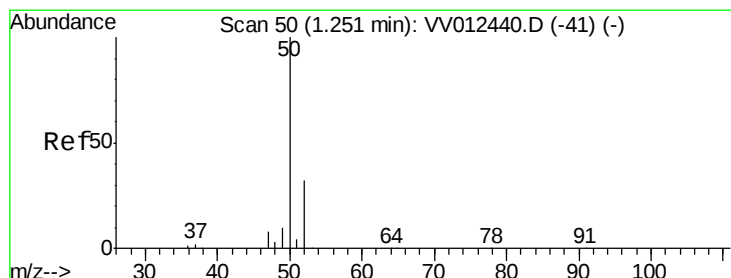
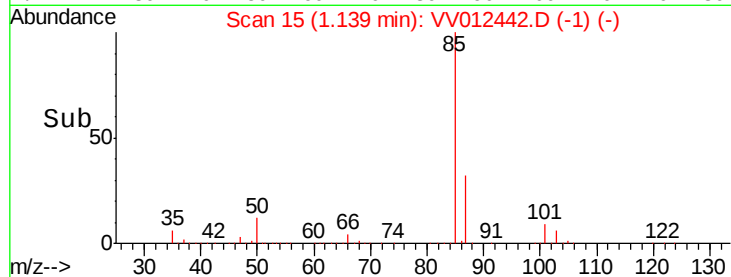
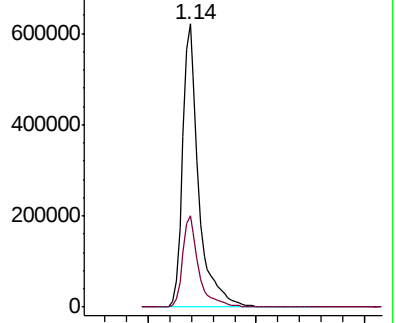
85 100

87 32.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 20.839 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012442.D

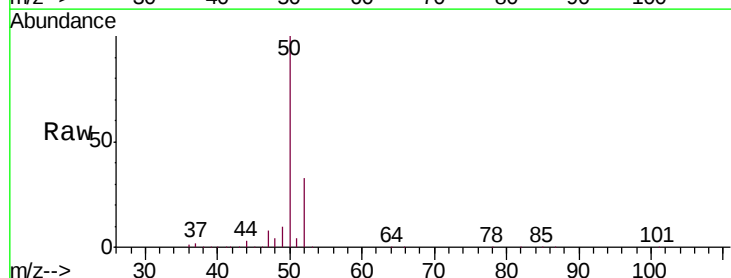
Acq: 29 Aug 2019 20:08

Tgt Ion: 50 Resp: 606686

Ion Ratio Lower Upper

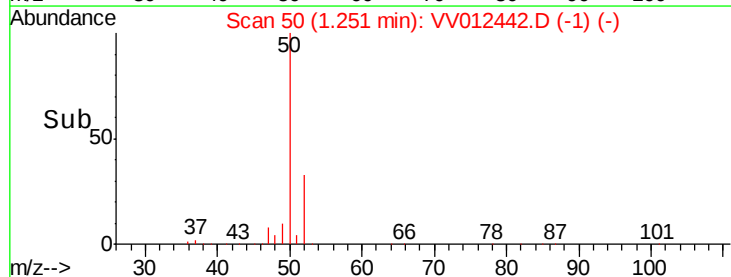
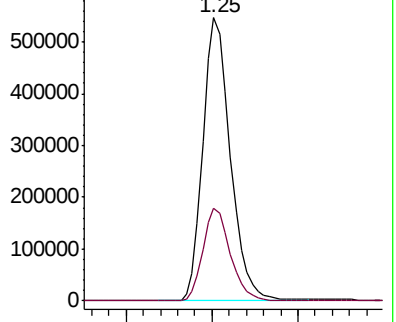
50 100

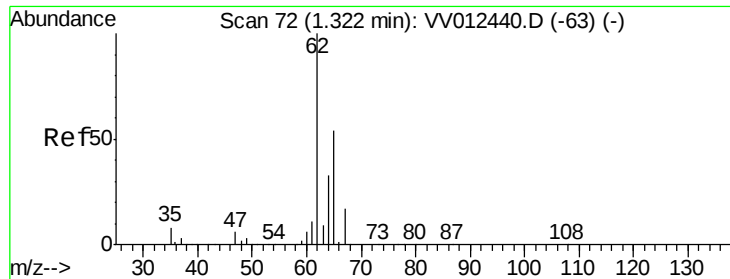
52 32.7 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 21.344 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

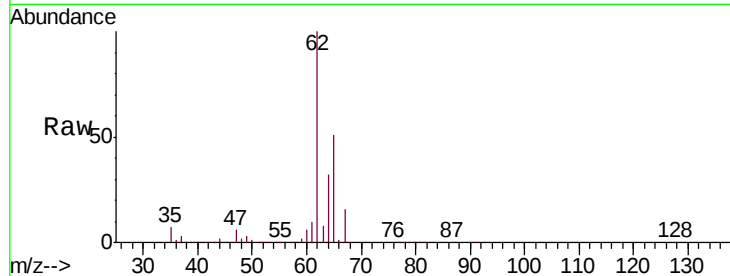
VSTD02033

Tgt Ion: 62 Resp: 574761

Ion Ratio Lower Upper

62 100

64 31.9 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VV012440.D (-63) (-)

Ion 64.10 (63.80 to 64.80): VV012440.D (-63) (-)

1.32

600000

500000

400000

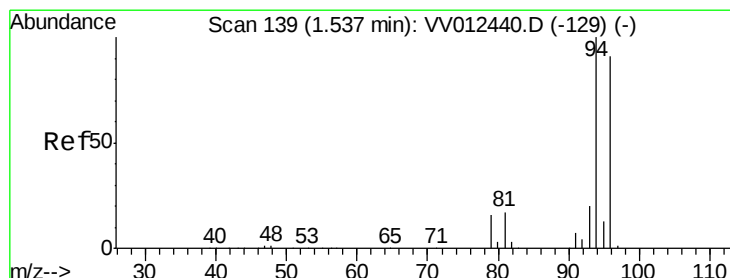
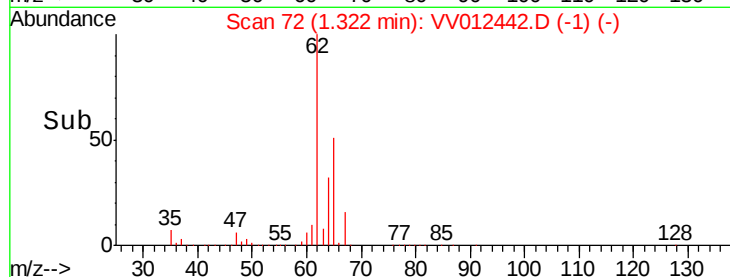
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 21.595 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012442.D

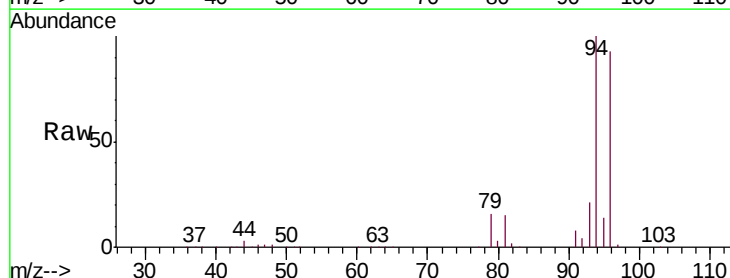
Acq: 29 Aug 2019 20:08

Tgt Ion: 94 Resp: 307658

Ion Ratio Lower Upper

94 100

96 93.5 64.0 119.0



Abundance Ion 94.00 (93.70 to 94.70): VV012440.D (-129) (-)

Ion 96.00 (95.70 to 96.70): VV012440.D (-129) (-)

1.54

300000

250000

200000

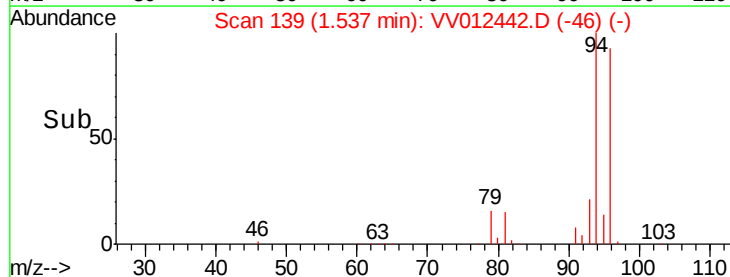
150000

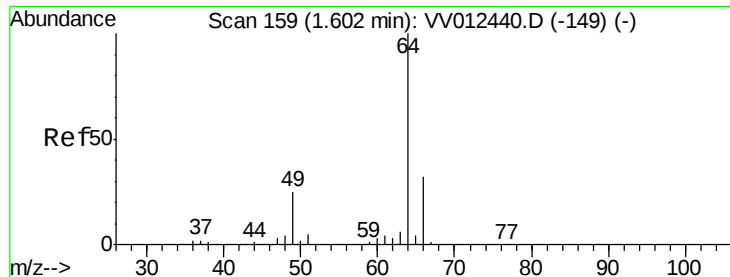
100000

50000

0

Time-->





#8

Chloroethane

Concen: 21.341 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

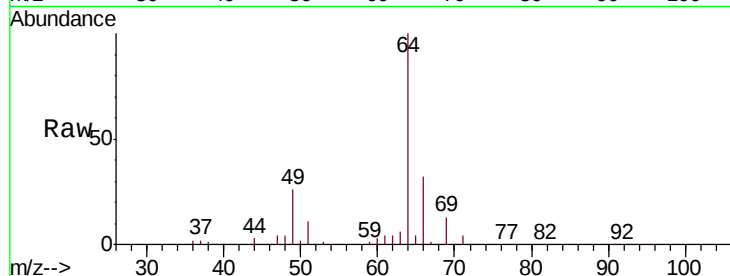
VSTD02033

Tgt Ion: 64 Resp: 303558

Ion Ratio Lower Upper

64 100

66 32.2 22.5 41.7



Abundance Ion 64.10 (63.80 to 64.80): VV012440.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VV012440.D (-149) (-)

1.60

250000

200000

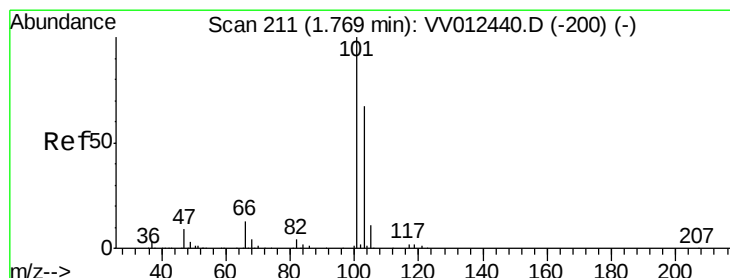
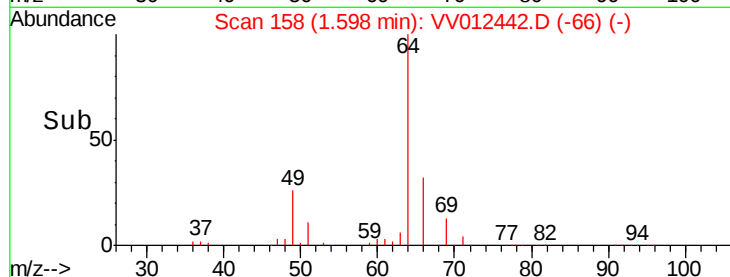
150000

100000

50000

0

Time--> 1.50 1.60 1.70



#9

Trichlorofluoromethane

Concen: 20.676 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012442.D

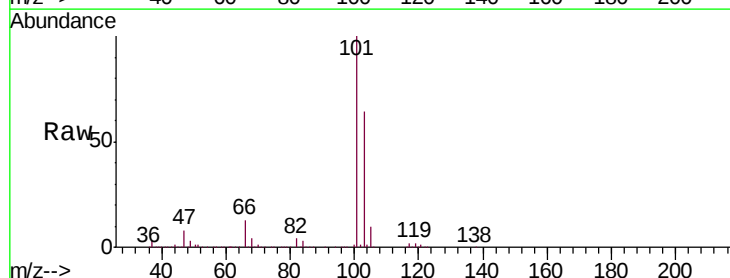
Acq: 29 Aug 2019 20:08

Tgt Ion: 101 Resp: 759474

Ion Ratio Lower Upper

101 100

103 64.2 53.0 79.4



Abundance Ion 101.00 (100.70 to 101.70): VV012440.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012440.D (-200) (-)

1.77

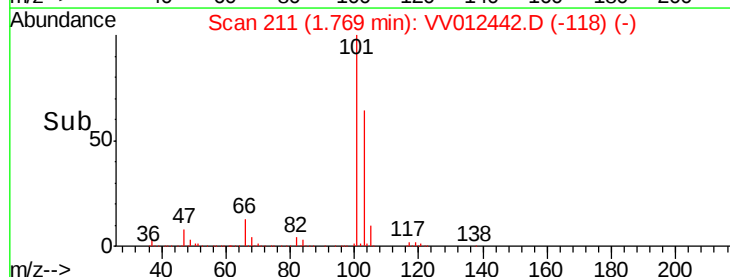
600000

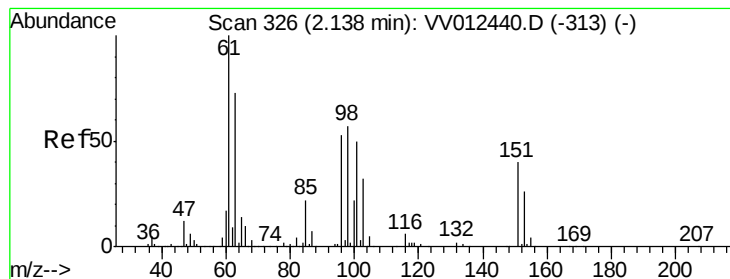
400000

200000

0

Time--> 1.70 1.80 1.90





#10

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

Concen: 20.930 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

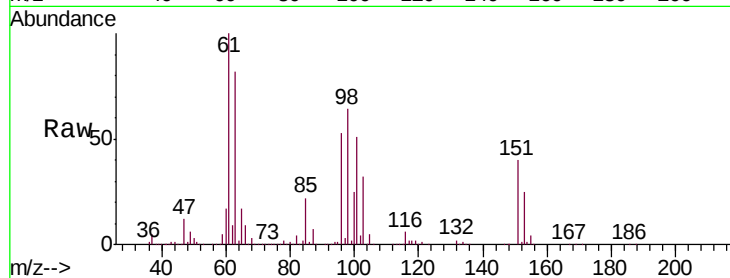
Tgt Ion: 101 Resp: 375175

Ion Ratio Lower Upper

101 100

85 44.1 35.4 53.2

151 79.1 64.4 96.6

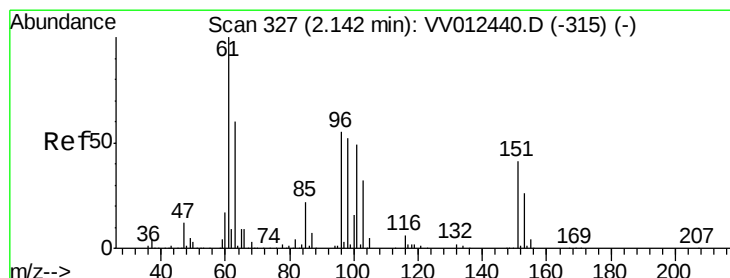
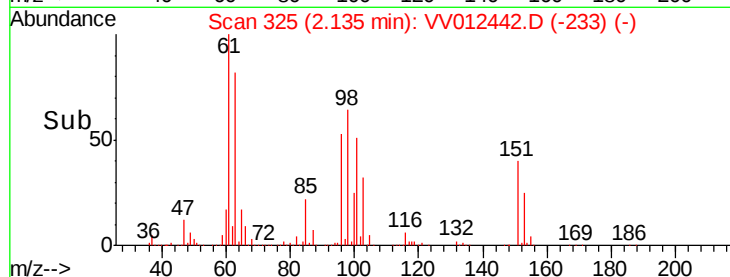


Abundance Ion 101.00 (100.70 to 101.70): VV012442.D (-233) (-)

Ion 85.00 (84.70 to 85.70): VV012442.D (-233) (-)

Ion 151.00 (150.70 to 151.70): VV012442.D (-233) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 20.731 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

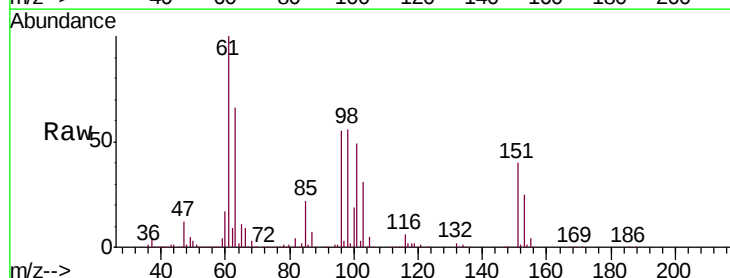
Tgt Ion: 96 Resp: 353561

Ion Ratio Lower Upper

96 100

61 181.0 127.8 237.4

63 119.6 78.2 145.2

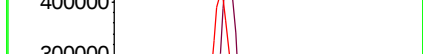
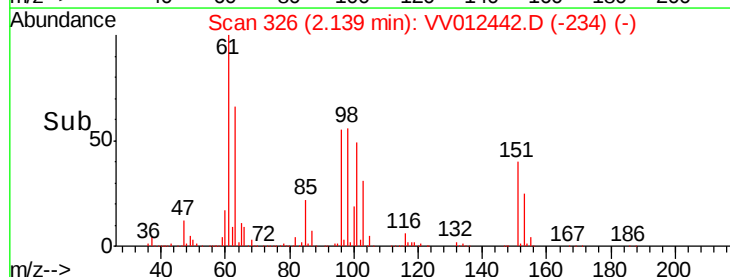


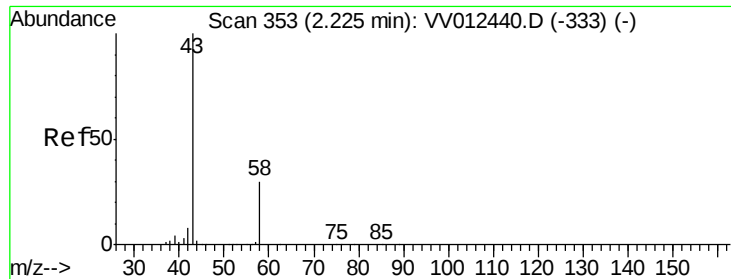
Abundance Ion 96.00 (95.70 to 96.70): VV012442.D (-234) (-)

Ion 61.05 (60.75 to 61.75): VV012442.D (-234) (-)

Ion 63.00 (62.70 to 63.70): VV012442.D (-234) (-)

Time-->





#13

Acetone

Concen: 207.980 ug/L

RT: 2.22 min Scan# 352

Delta R.T. -0.00 min

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Acq: 29 Aug 2019 20:08

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ClientSampleId :

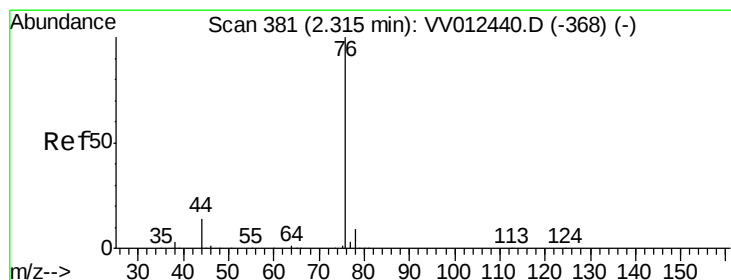
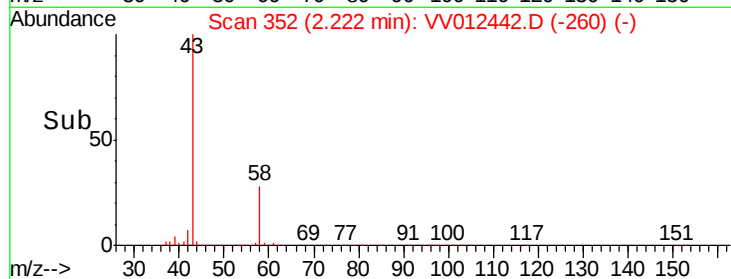
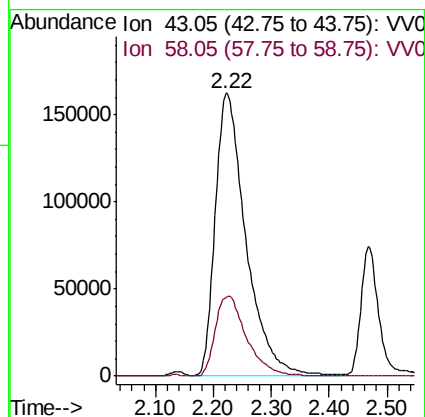
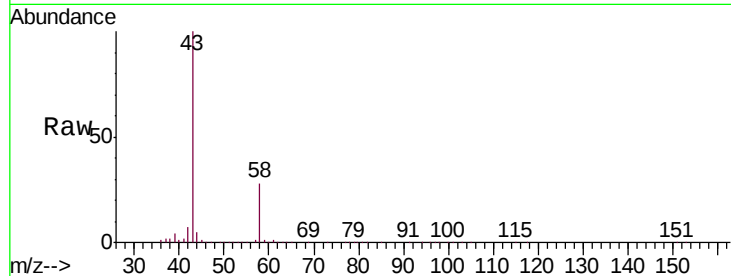
VSTD02033

Tgt Ion: 43 Resp: 590978

Ion Ratio Lower Upper

43 100

58 29.3 0.0 56.8



#14

Carbon disulfide

Concen: 20.930 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012442.D

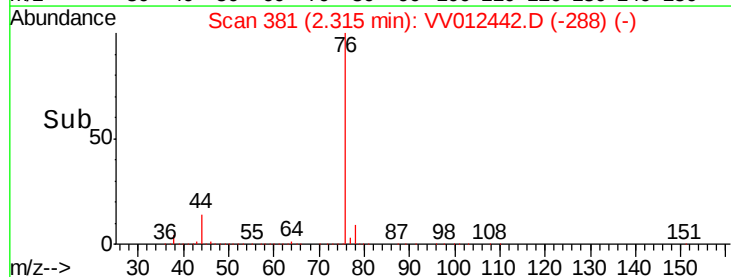
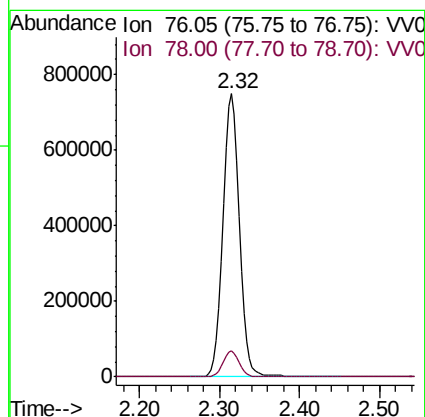
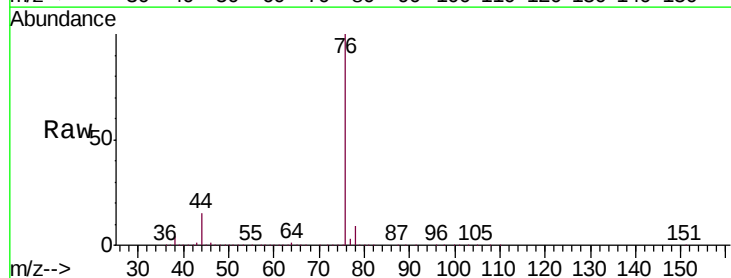
Acq: 29 Aug 2019 20:08

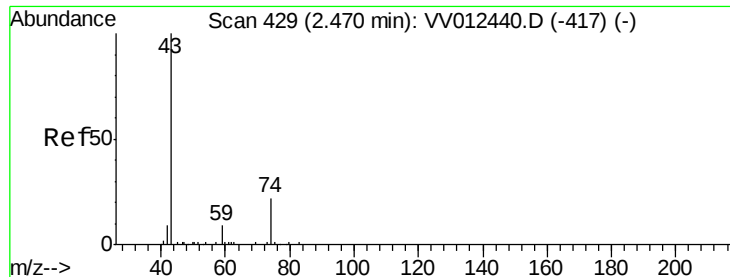
Tgt Ion: 76 Resp: 1080858

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8

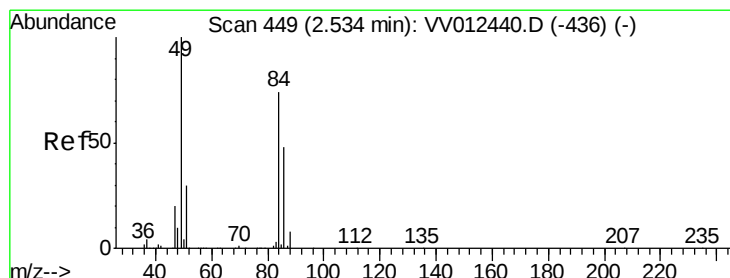
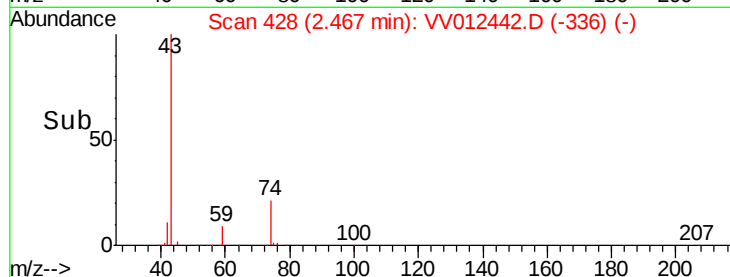
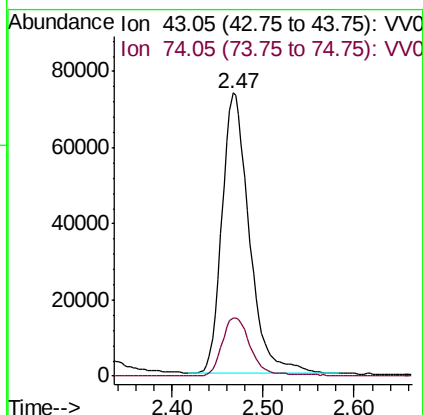
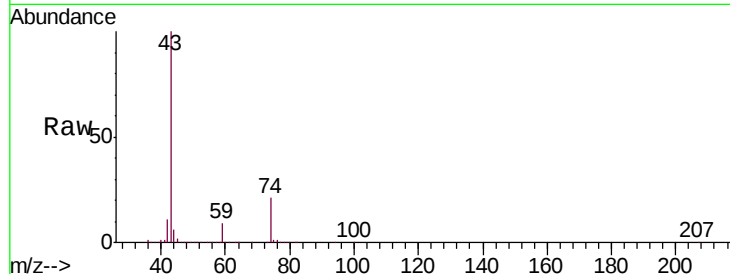




#15
Methyl Acetate
Concen: 22.095 ug/L
RT: 2.47 min Scan# 428
Delta R.T. -0.00 min
Lab File: VV012442.D
Acq: 29 Aug 2019 20:08

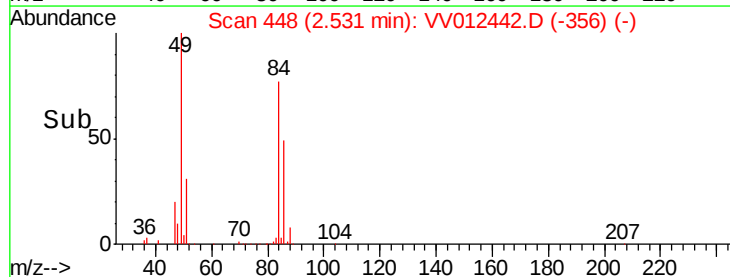
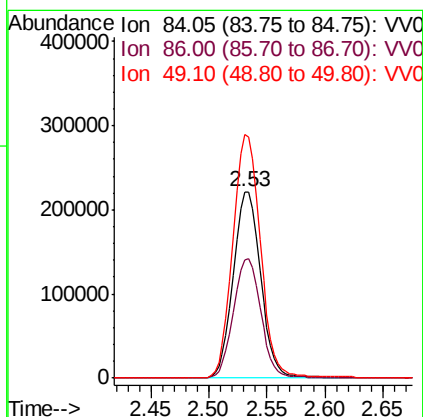
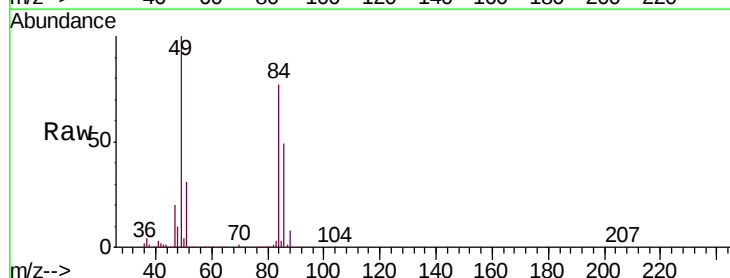
Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

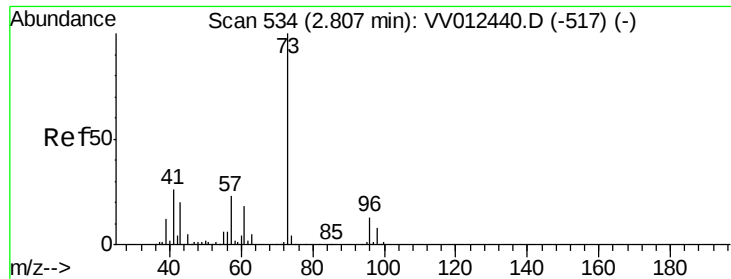
Tgt Ion: 43 Resp: 153785
Ion Ratio Lower Upper
43 100
74 21.9 18.1 27.1



#16
Methylene chloride
Concen: 19.597 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV012442.D
Acq: 29 Aug 2019 20:08

Tgt Ion: 84 Resp: 362910
Ion Ratio Lower Upper
84 100
86 63.6 45.2 84.0
49 130.5 95.1 176.7





#17

Methyl tert-butyl Ether

Concen: 20.089 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

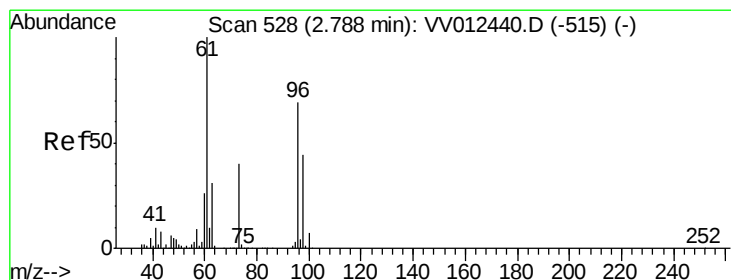
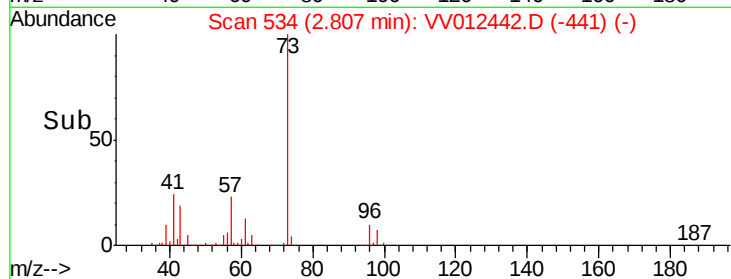
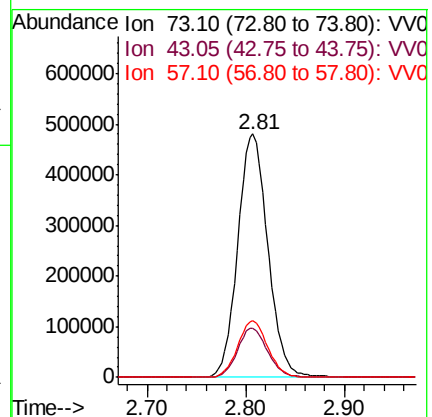
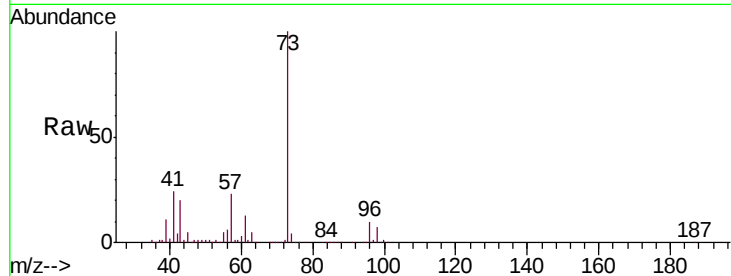
Tgt Ion: 73 Resp: 1017826

Ion Ratio Lower Upper

73 100

43 20.2 16.1 24.1

57 23.2 18.8 28.2



#18

trans-1,2-Dichloroethene

Concen: 19.880 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

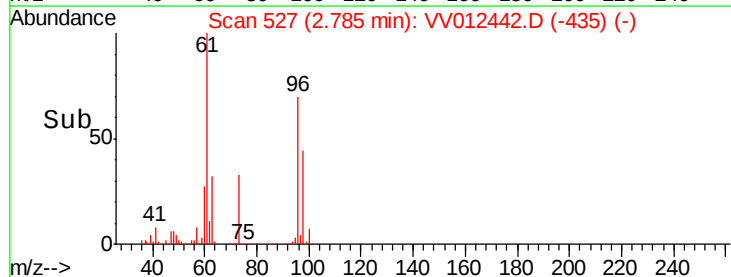
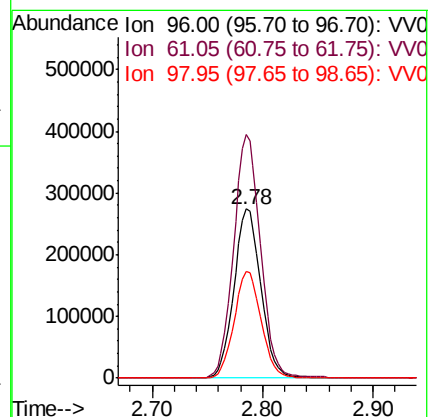
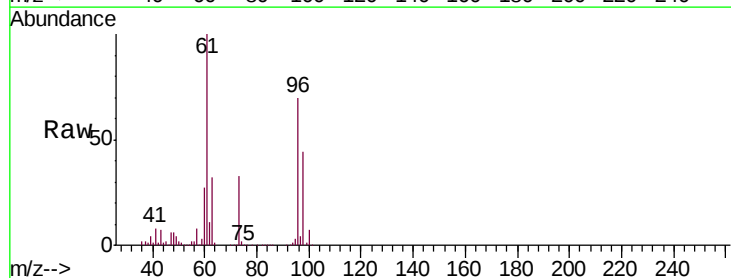
Tgt Ion: 96 Resp: 464258

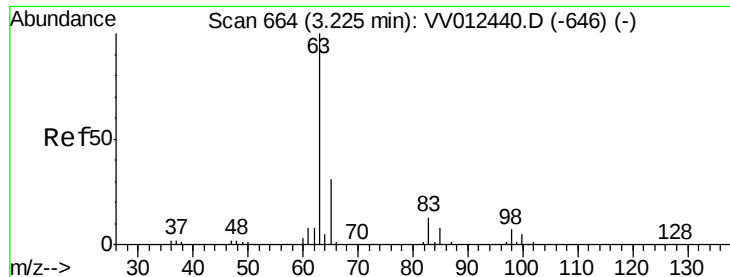
Ion Ratio Lower Upper

96 100

61 143.8 101.2 188.0

98 63.1 44.1 81.9





#19

1,1-Dichloroethane

Concen: 19.618 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

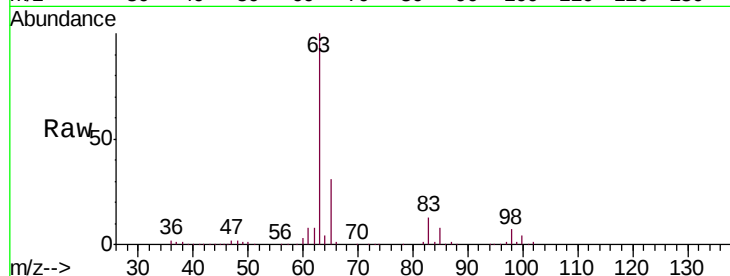
Tgt Ion: 63 Resp: 899800

Ion Ratio Lower Upper

63 100

65 31.3 21.6 40.2

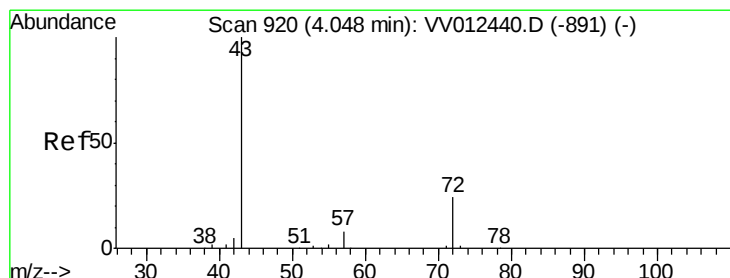
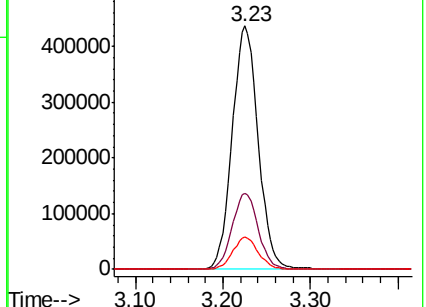
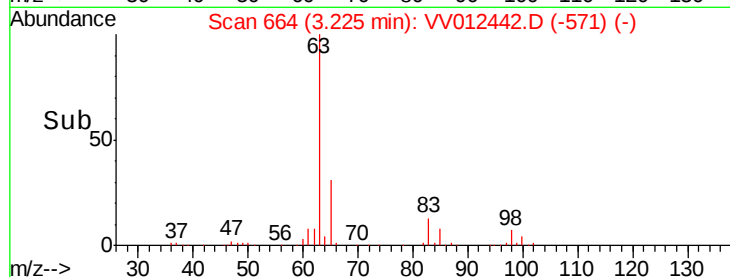
83 13.1 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VV012442.D (-571) (-)

Ion 65.10 (64.80 to 65.80): VV012442.D (-571) (-)

Ion 83.05 (82.75 to 83.75): VV012442.D (-571) (-)



#21

2-Butanone

Concen: 221.117 ug/L

RT: 4.04 min Scan# 918

Delta R.T. -0.01 min

Lab File: VV012442.D

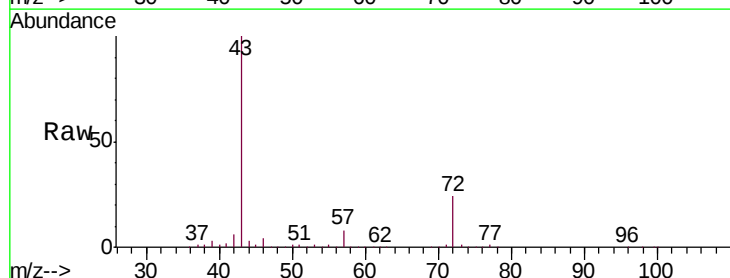
Acq: 29 Aug 2019 20:08

Tgt Ion: 43 Resp: 1281072

Ion Ratio Lower Upper

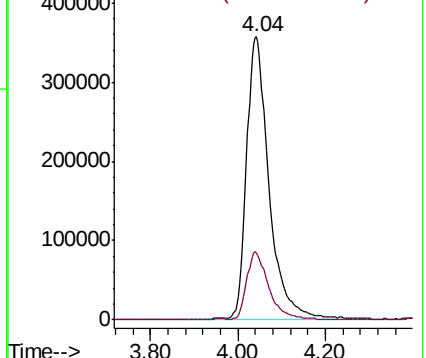
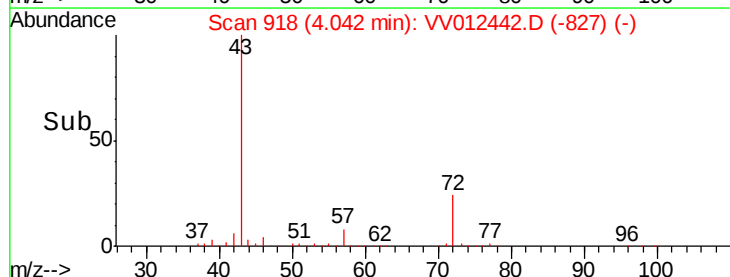
43 100

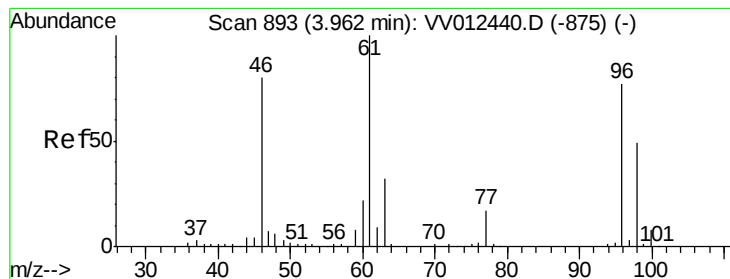
72 23.2 11.8 35.3



Abundance Ion 43.05 (42.75 to 43.75): VV012442.D (-827) (-)

Ion 72.10 (71.80 to 72.80): VV012442.D (-827) (-)



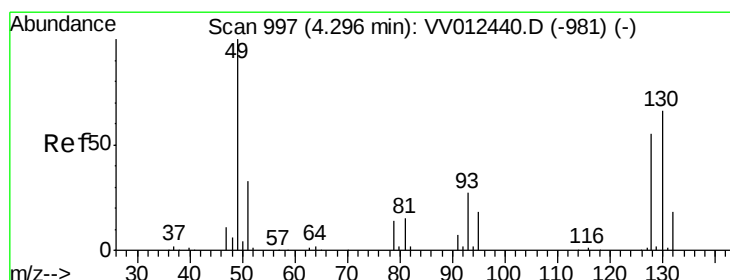
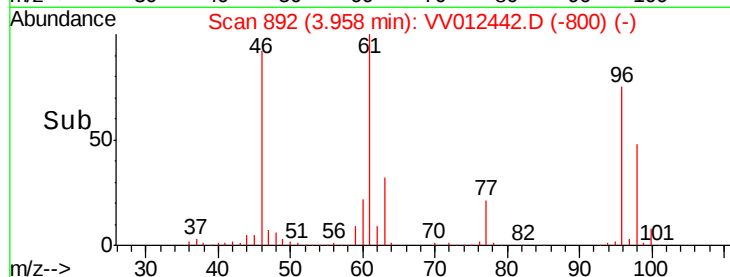
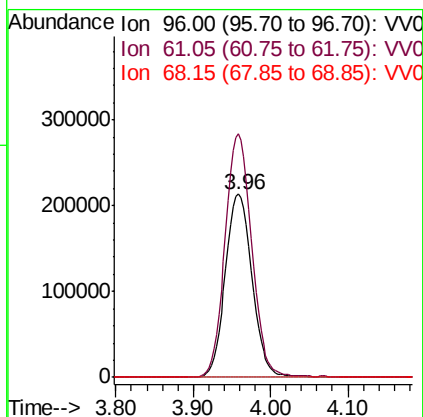
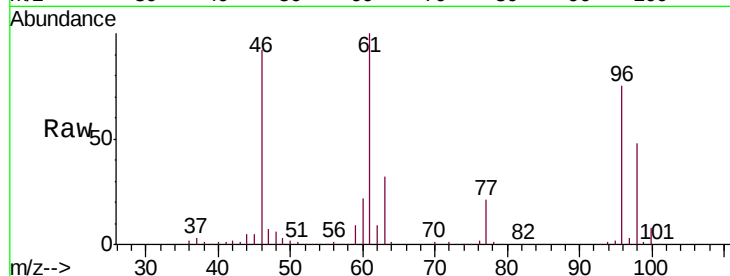


#22

cis-1,2-Dichloroethene
 Concen: 20.521 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV012442.D
 Acq: 29 Aug 2019 20:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02033

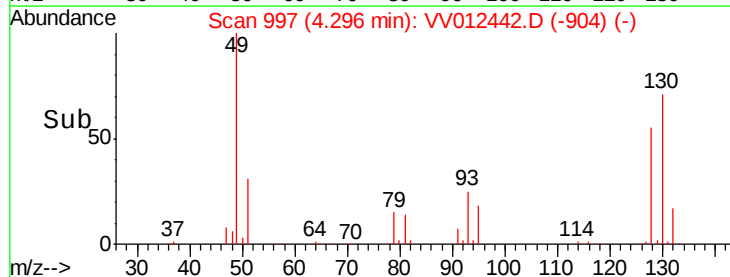
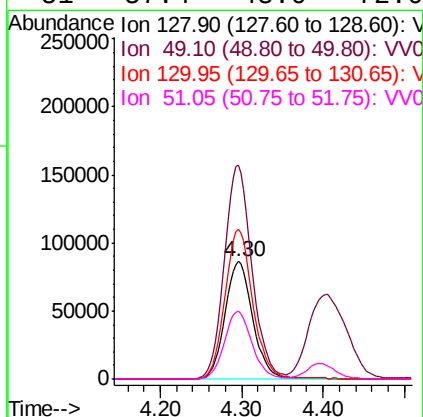
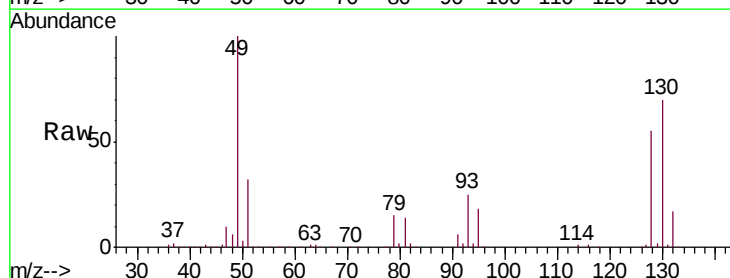
Tgt Ion: 96 Resp: 513377
 Ion Ratio Lower Upper
 96 100
 61 133.0 91.5 169.9
 68 0.0 0.0 0.0

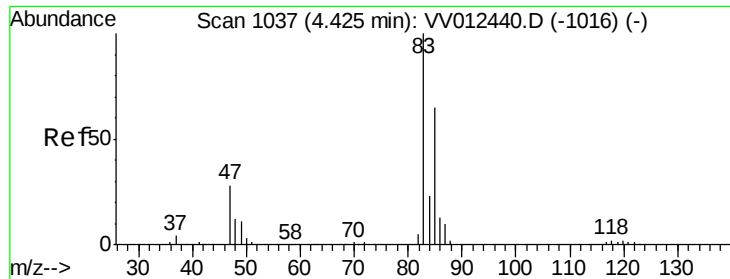


#23

Bromochloromethane
 Concen: 19.578 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV012442.D
 Acq: 29 Aug 2019 20:08

Tgt Ion: 128 Resp: 207022
 Ion Ratio Lower Upper
 128 100
 49 182.0 127.7 237.3
 130 127.4 84.1 156.1
 51 57.4 48.0 72.0

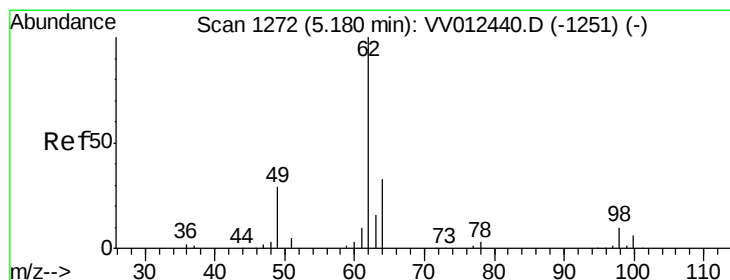
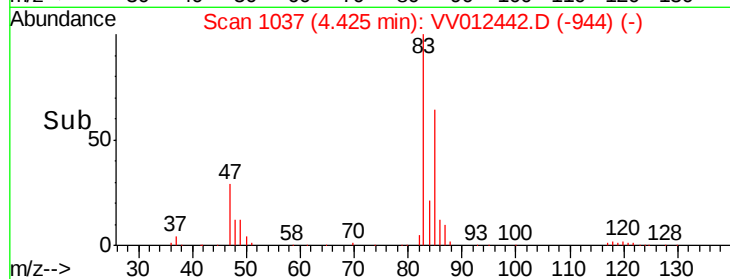
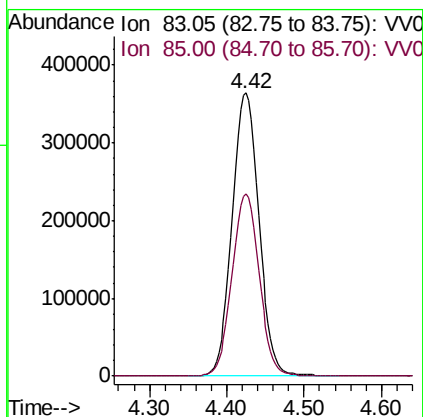
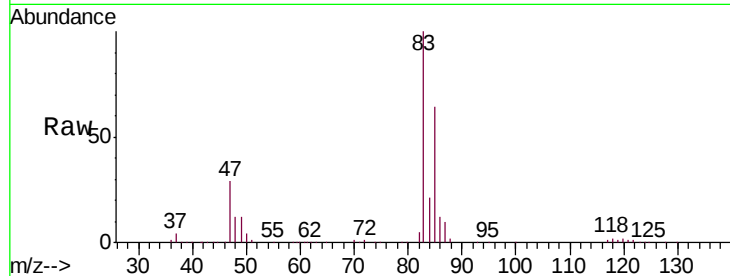




#25
Chloroform
Concen: 18.340 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012442.D
Acq: 29 Aug 2019 20:08

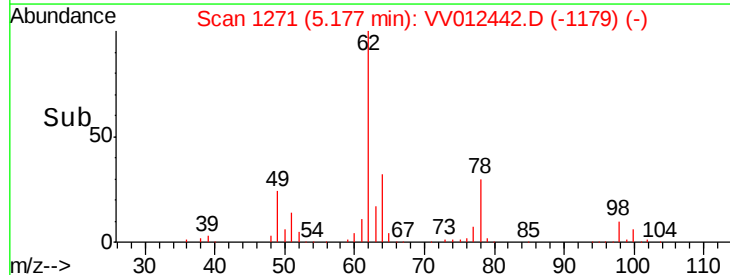
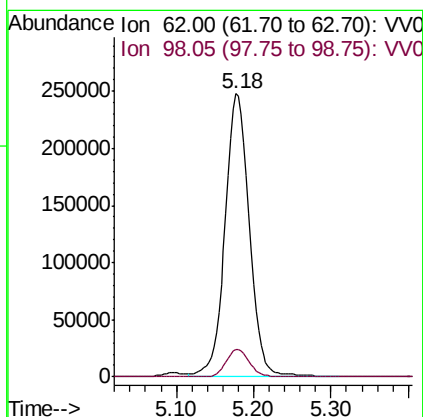
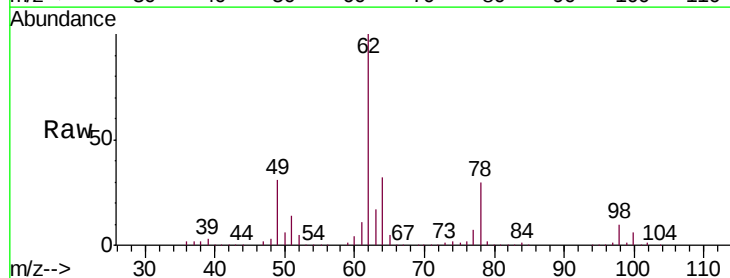
Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

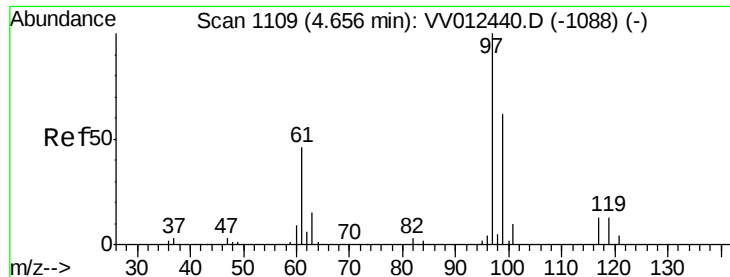
Tgt Ion: 83 Resp: 877219
Ion Ratio Lower Upper
83 100
85 64.5 45.4 84.4



#27
1,2-Dichloroethane
Concen: 19.876 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV012442.D
Acq: 29 Aug 2019 20:08

Tgt Ion: 62 Resp: 536097
Ion Ratio Lower Upper
62 100
98 9.7 8.3 12.5

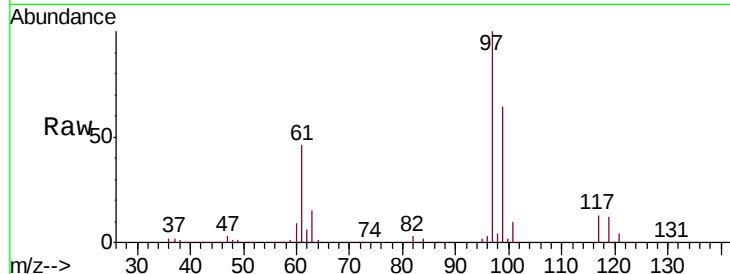




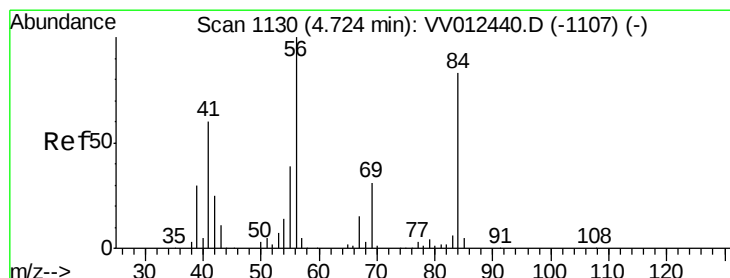
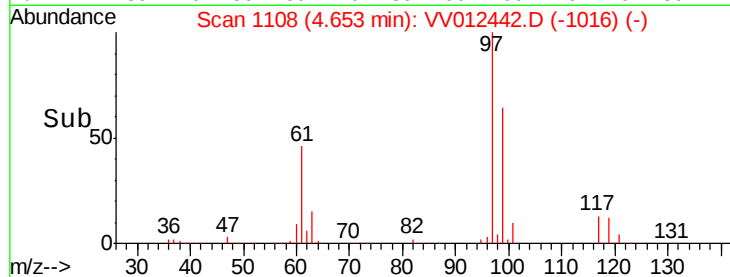
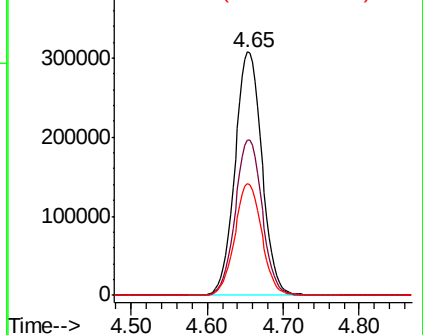
#29
 1,1,1-Trichloroethane
 Concen: 19.837 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. -0.00 min
 Lab File: VV012442.D
 Acq: 29 Aug 2019 20:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02033

Tgt Ion: 97 Resp: 757853
 Ion Ratio Lower Upper
 97 100
 99 63.8 49.8 74.6
 61 45.9 36.7 55.1

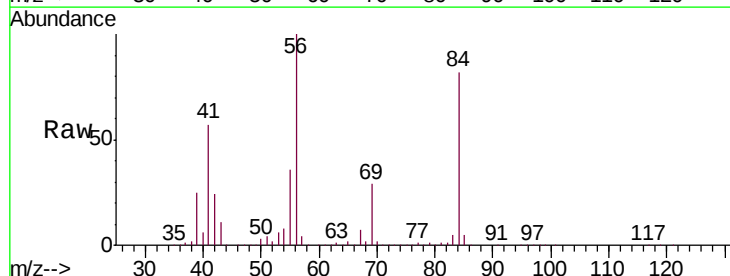


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

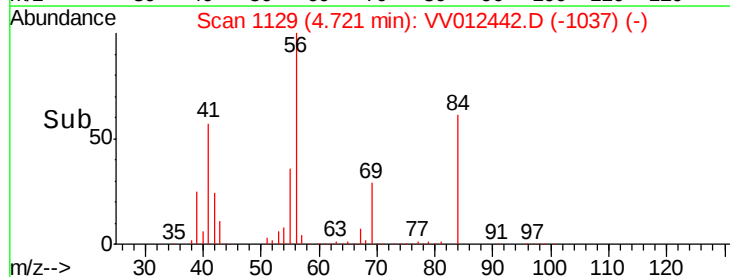
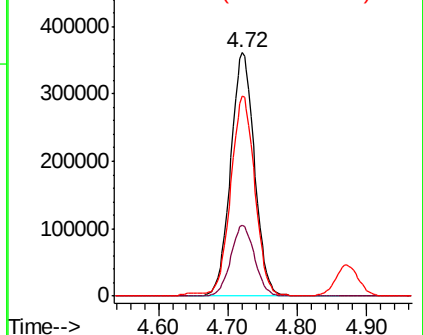


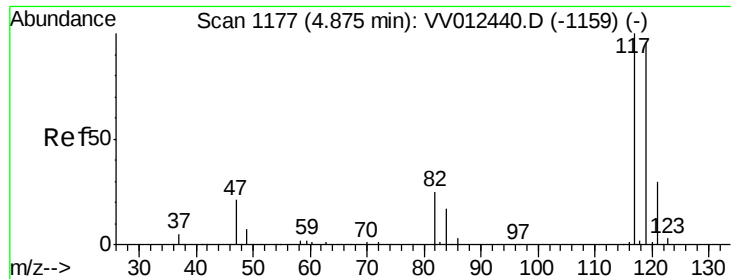
#30
 Cyclohexane
 Concen: 22.346 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. -0.00 min
 Lab File: VV012442.D
 Acq: 29 Aug 2019 20:08

Tgt Ion: 56 Resp: 867396
 Ion Ratio Lower Upper
 56 100
 69 29.2 24.4 36.6
 84 82.9 67.8 101.6



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 19.949 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

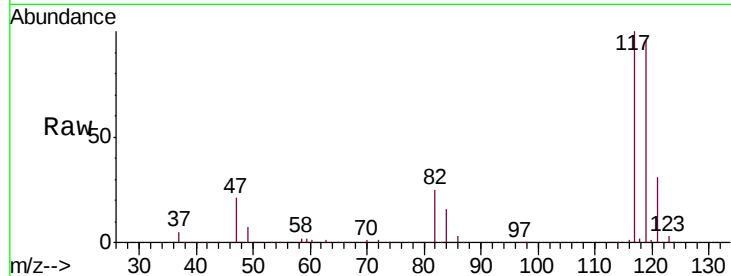
VSTD02033

Tgt Ion:117 Resp: 669367

Ion Ratio Lower Upper

117 100

119 95.8 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

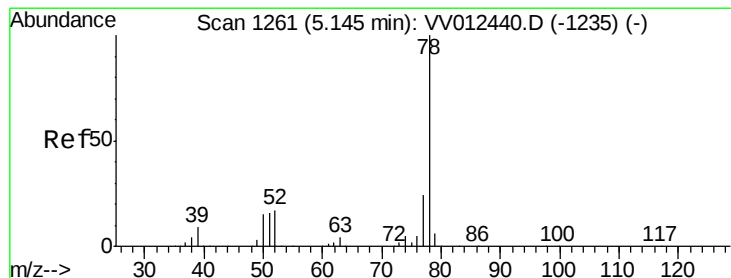
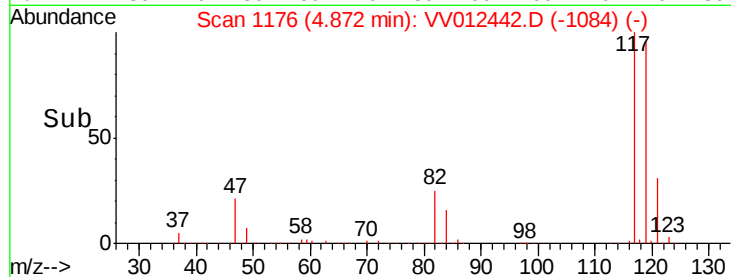
300000

200000

100000

0

Time-->



#33

Benzene

Concen: 20.609 ug/L

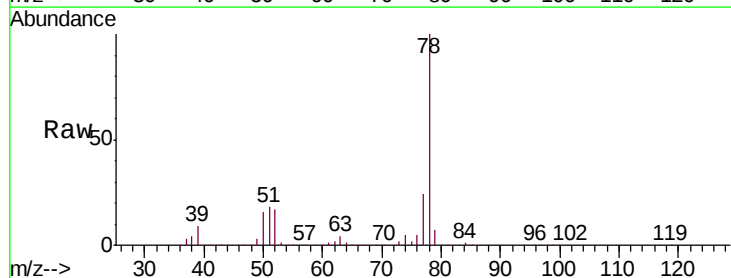
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Tgt Ion: 78 Resp: 1990694



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.14

1000000

800000

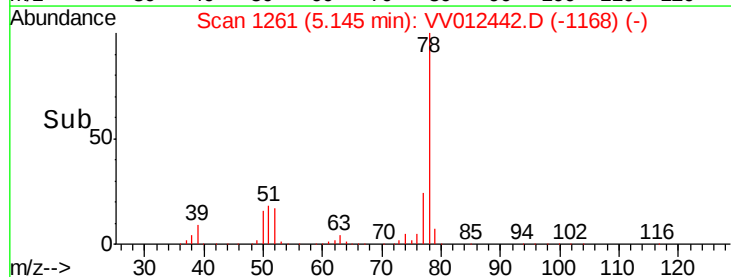
600000

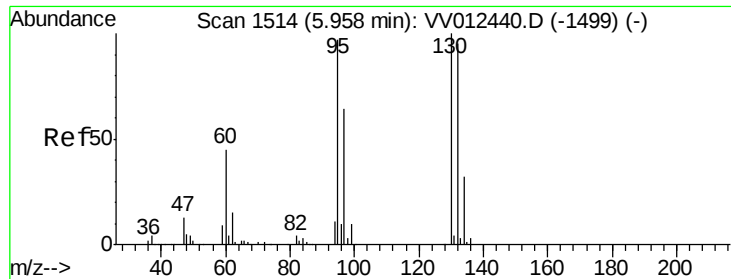
400000

200000

0

Time-->





#34

Trichloroethene

Concen: 20.100 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

Tgt Ion: 95 Resp: 503105

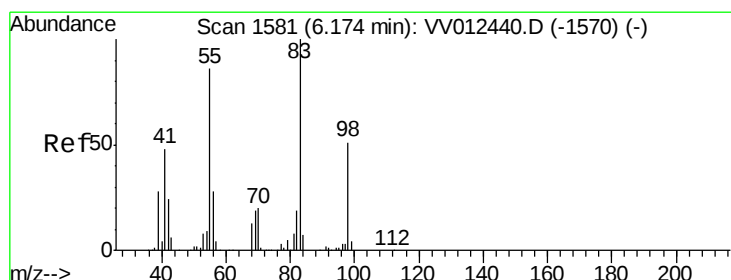
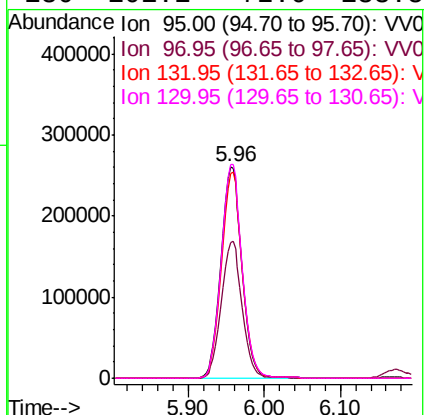
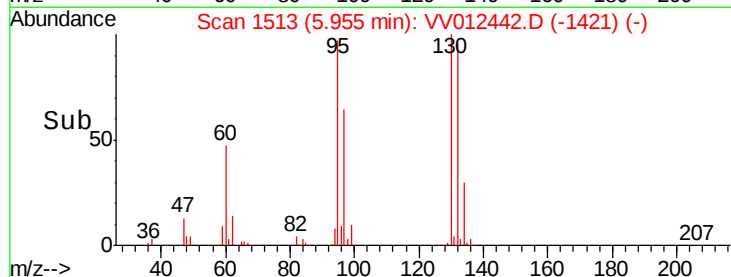
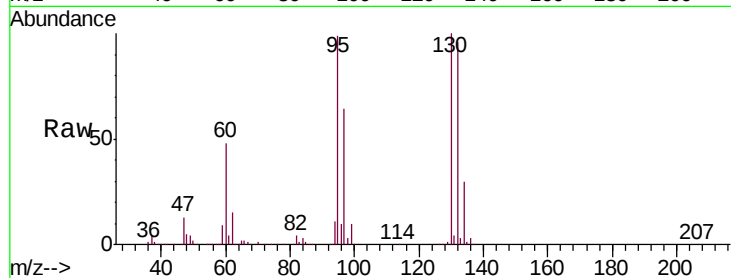
Ion Ratio Lower Upper

95 100

97 64.5 45.8 85.2

132 96.7 68.3 126.9

130 101.1 72.0 133.8



#35

Methylcyclohexane

Concen: 22.550 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

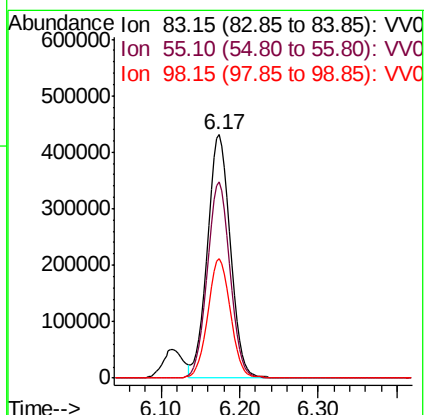
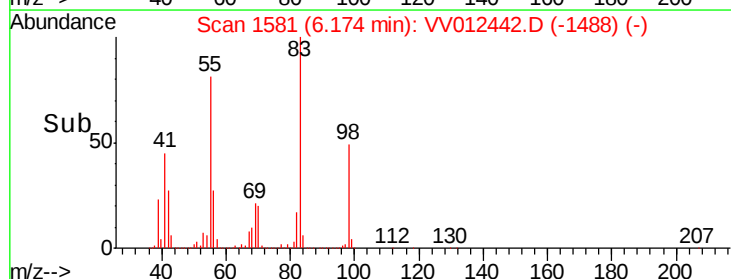
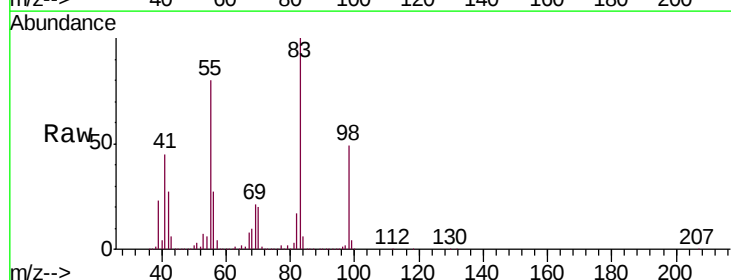
Tgt Ion: 83 Resp: 864707

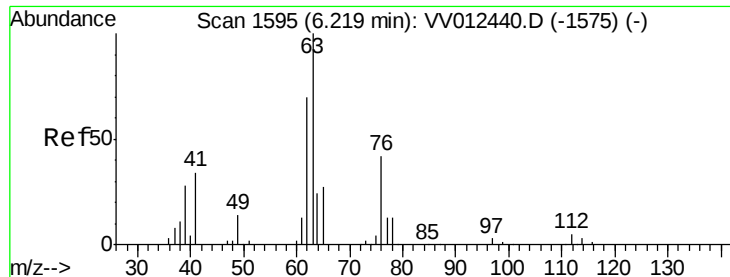
Ion Ratio Lower Upper

83 100

55 80.2 67.8 101.6

98 48.3 39.2 58.8

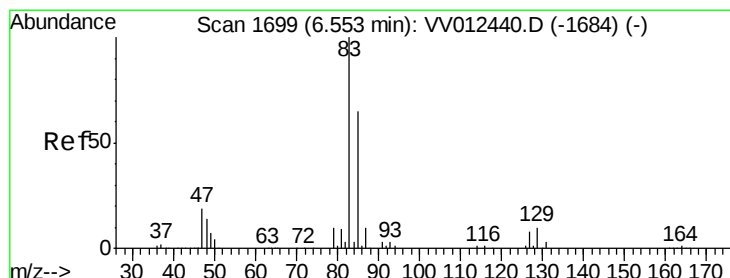
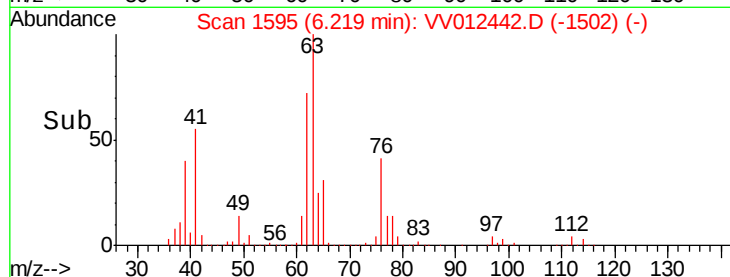
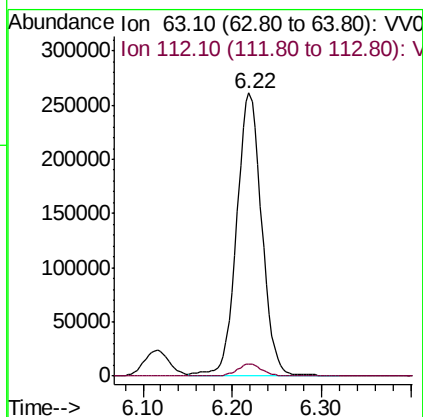
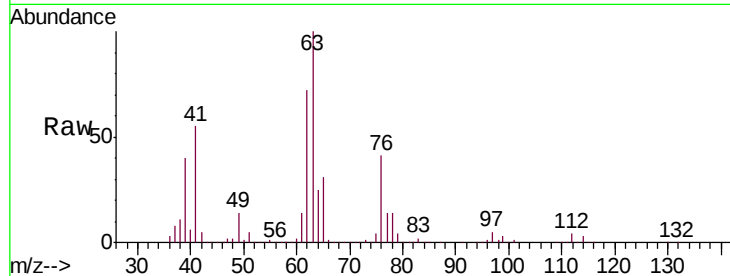




#37
 1,2-Dichloropropane
 Concen: 20.554 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV012442.D
 Acq: 29 Aug 2019 20:08

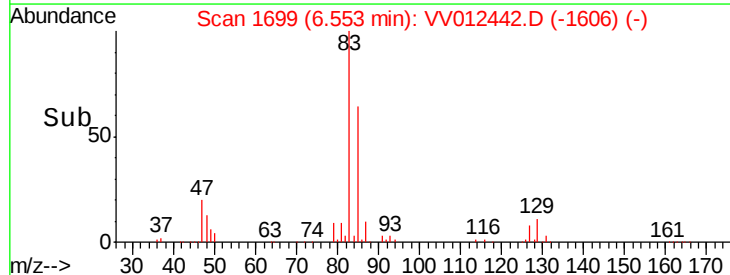
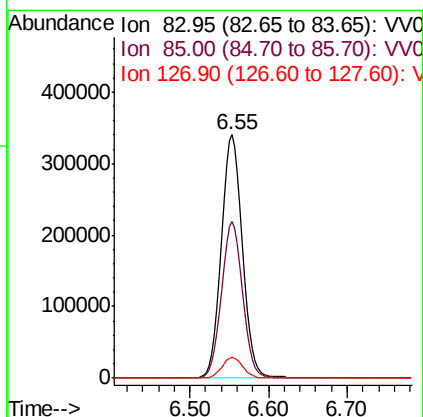
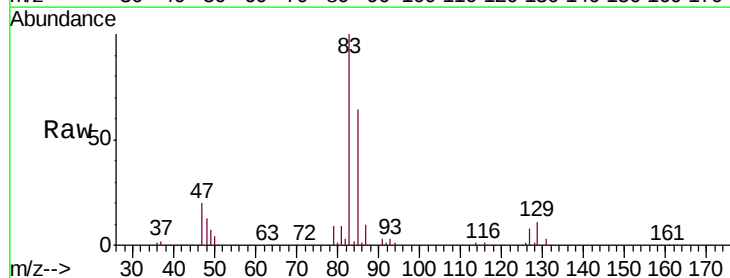
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02033

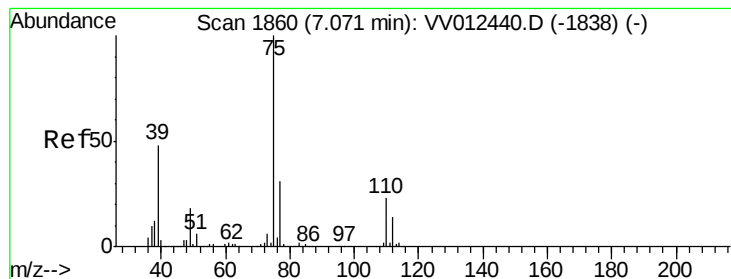
Tgt Ion: 63 Resp: 506015
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.7 5.5



#38
 Bromodichloromethane
 Concen: 19.839 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012442.D
 Acq: 29 Aug 2019 20:08

Tgt Ion: 83 Resp: 627296
 Ion Ratio Lower Upper
 83 100
 85 64.2 45.4 84.4
 127 8.4 6.4 9.6



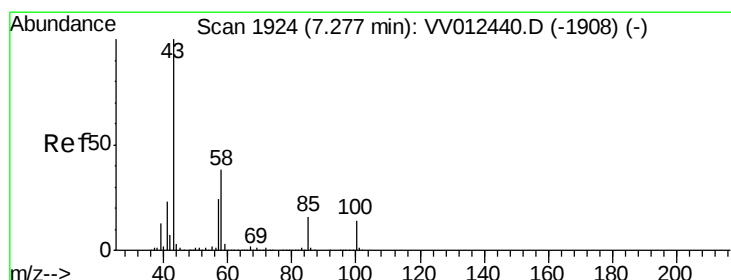
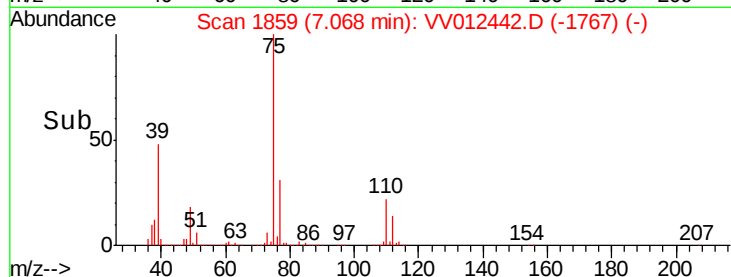
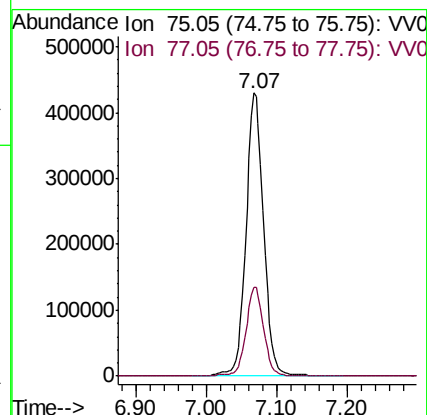
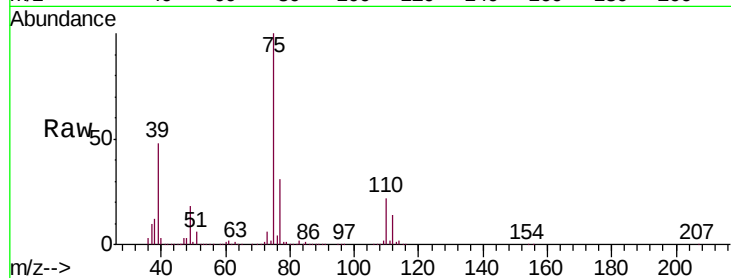


#39

cis-1,3-Dichloropropene
 Concen: 23.013 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV012442.D
 Acq: 29 Aug 2019 20:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02033

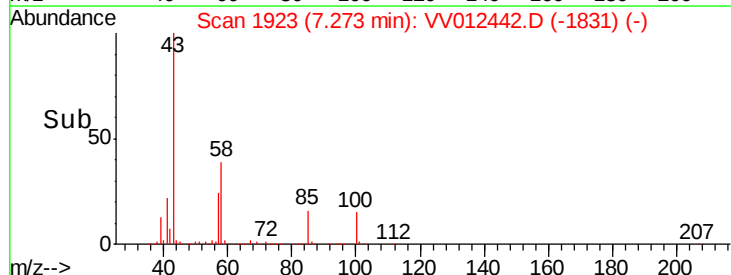
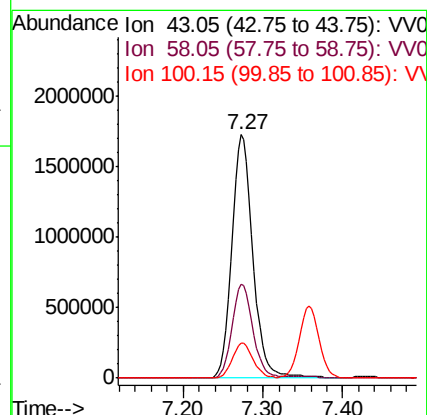
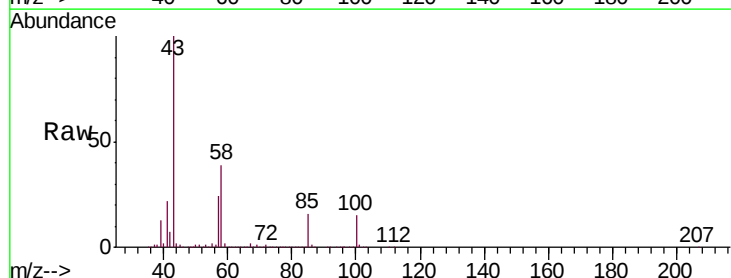
Tgt Ion: 75 Resp: 748138
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.8 40.6

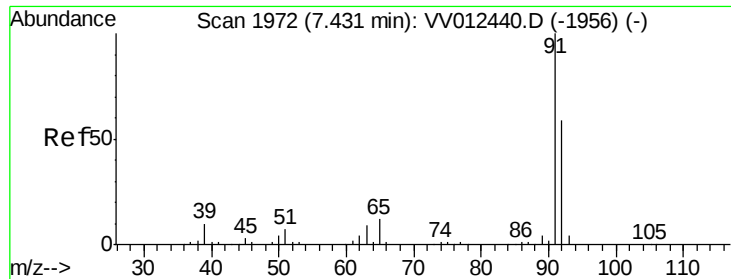


#40

4-Methyl-2-pentanone
 Concen: 222.424 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. -0.00 min
 Lab File: VV012442.D
 Acq: 29 Aug 2019 20:08

Tgt Ion: 43 Resp: 3122137
 Ion Ratio Lower Upper
 43 100
 58 38.3 29.7 44.5
 100 14.3 10.8 16.2





#42

Toluene

Concen: 21.181 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

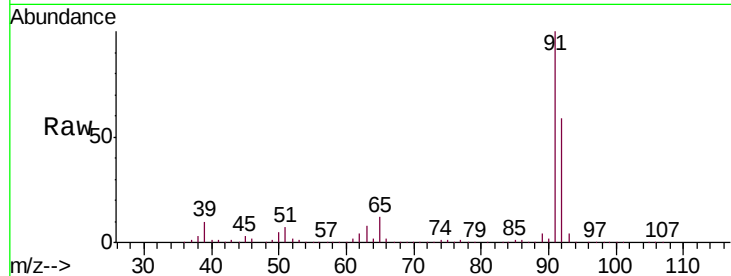
VSTD02033

Tgt Ion: 91 Resp: 2104213

Ion Ratio Lower Upper

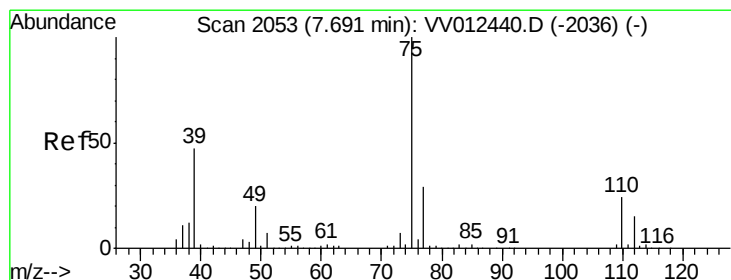
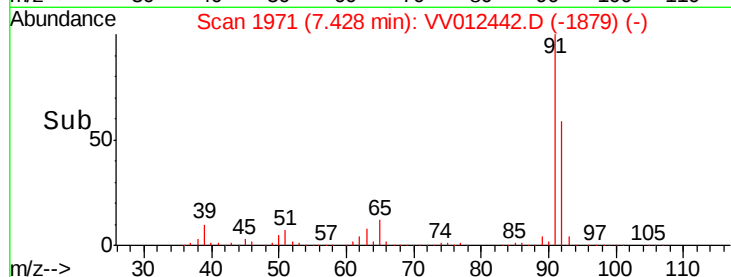
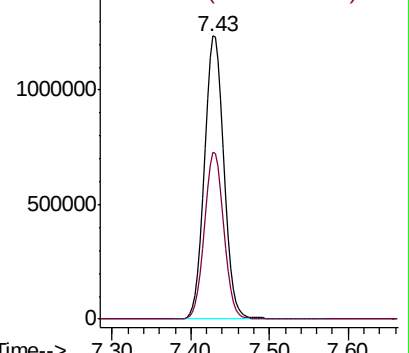
91 100

92 58.8 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VV012440.D (-1956) (-)

Ion 92.15 (91.85 to 92.85): VV012440.D (-1956) (-)



#44

trans-1,3-Dichloropropene

Concen: 22.630 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012442.D

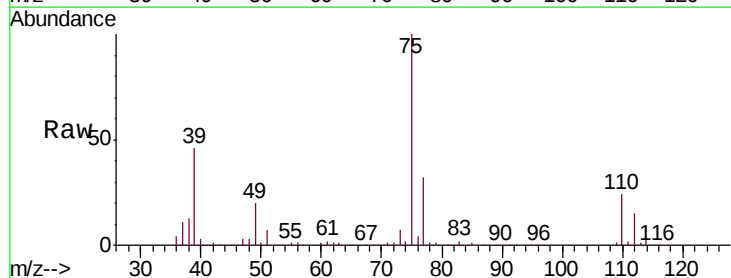
Acq: 29 Aug 2019 20:08

Tgt Ion: 75 Resp: 573101

Ion Ratio Lower Upper

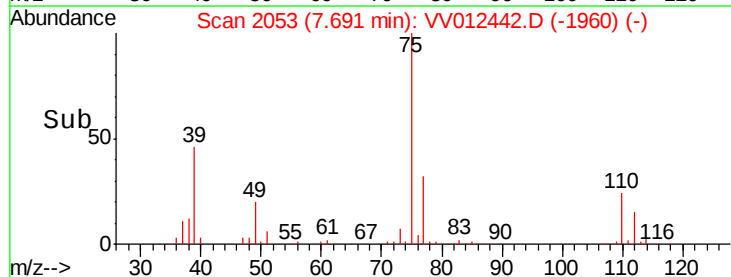
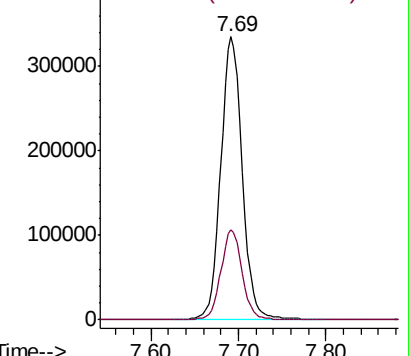
75 100

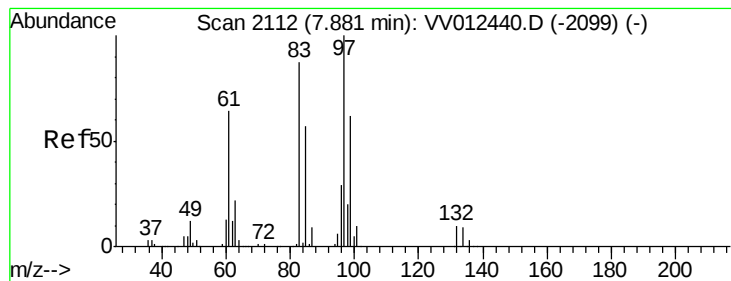
77 32.0 20.6 38.4



Abundance Ion 75.05 (74.75 to 75.75): VV012440.D (-2036) (-)

Ion 77.05 (76.75 to 77.75): VV012440.D (-2036) (-)





#45

1,1,2-Trichloroethane

Concen: 19.821 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

Tgt Ion: 97 Resp: 326659

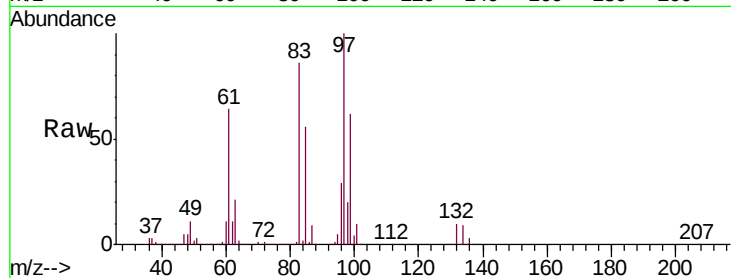
Ion Ratio Lower Upper

97 100

99 62.0 43.3 80.3

83 85.6 61.2 113.6

85 55.8 40.0 74.4

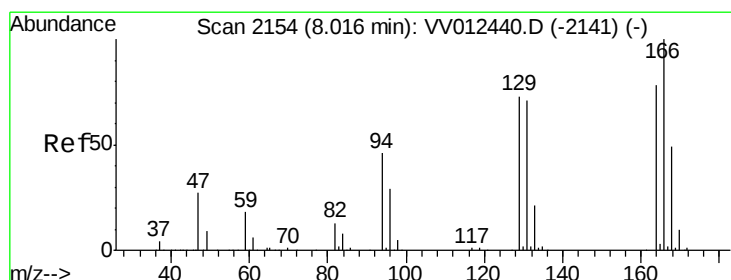
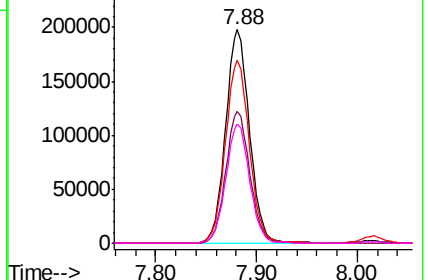
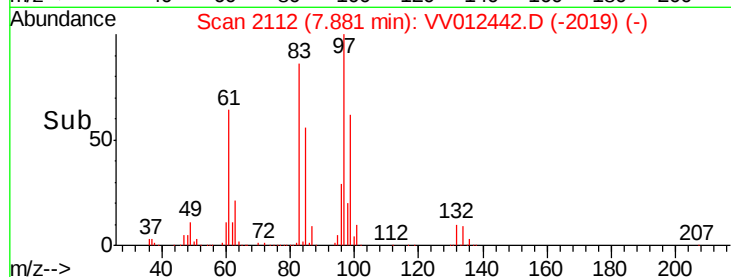


Abundance Ion 96.95 (96.65 to 97.65): VV0

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: 19.784 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Tgt Ion: 164 Resp: 403288

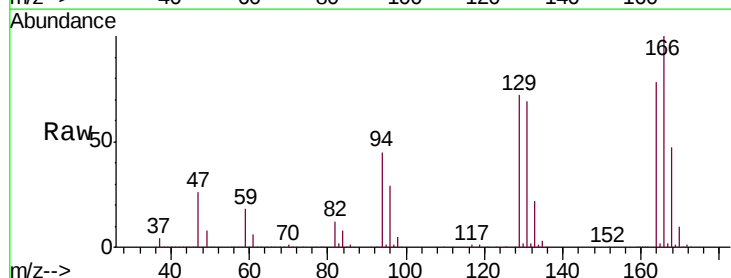
Ion Ratio Lower Upper

164 100

129 93.4 65.6 121.8

131 88.7 63.3 117.5

166 128.9 89.4 166.0

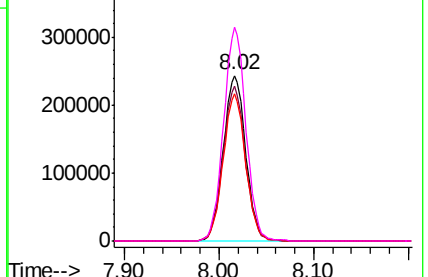
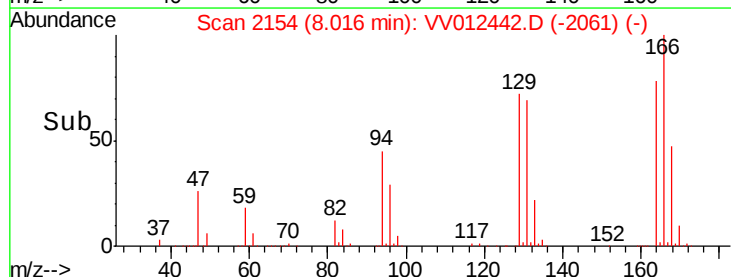


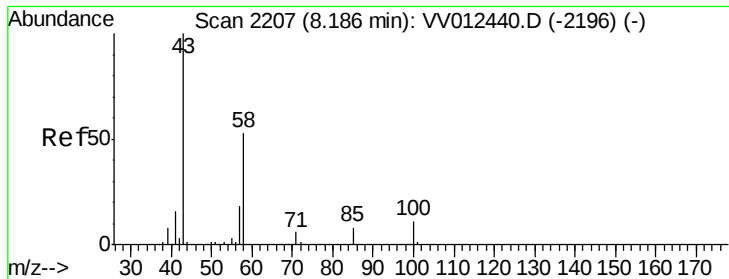
Abundance Ion 163.90 (163.60 to 164.60): V

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: 228.596 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

Tgt Ion: 43 Resp: 2210298

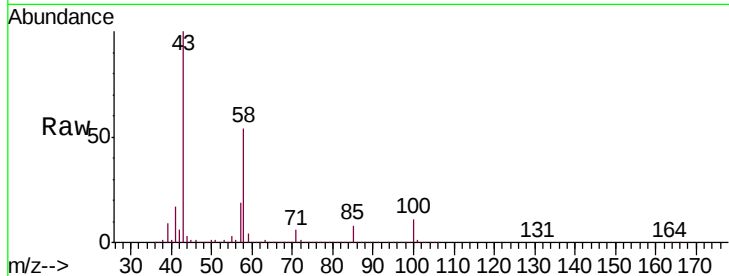
Ion Ratio Lower Upper

43 100

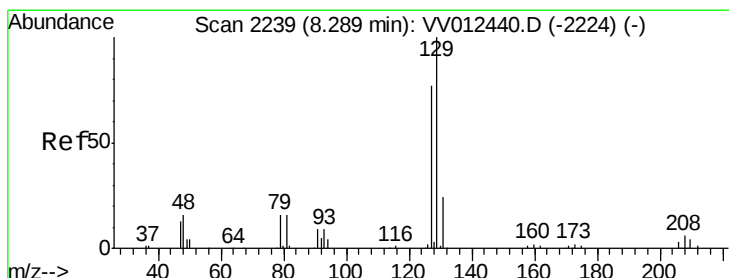
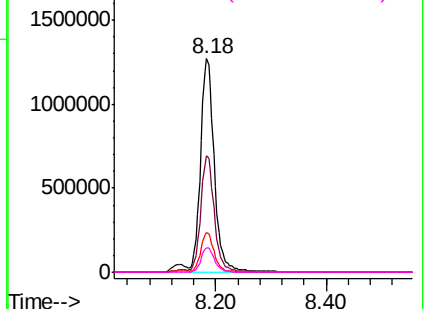
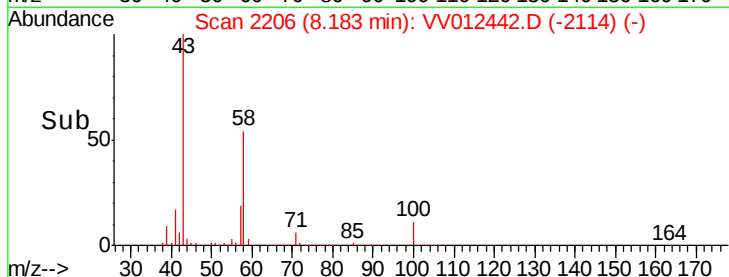
58 53.6 43.6 65.4

57 18.2 14.2 21.2

100 11.3 8.9 13.3



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: 20.488 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VV012442.D

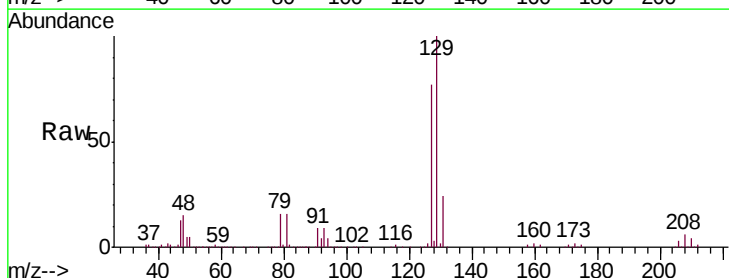
Acq: 29 Aug 2019 20:08

Tgt Ion: 129 Resp: 400057

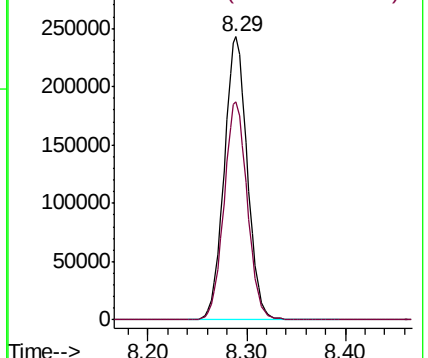
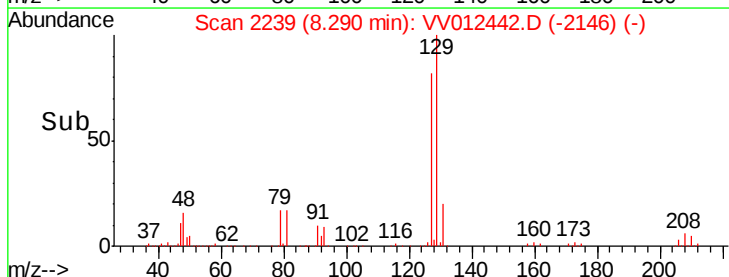
Ion Ratio Lower Upper

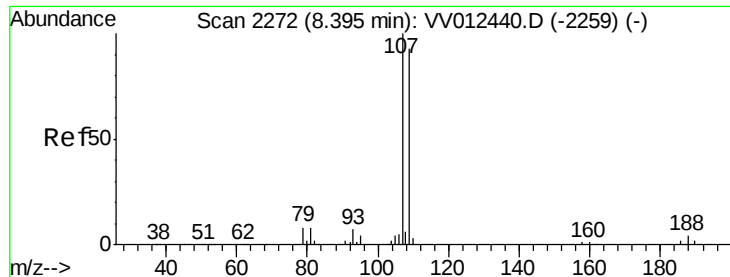
129 100

127 77.2 53.6 99.6



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

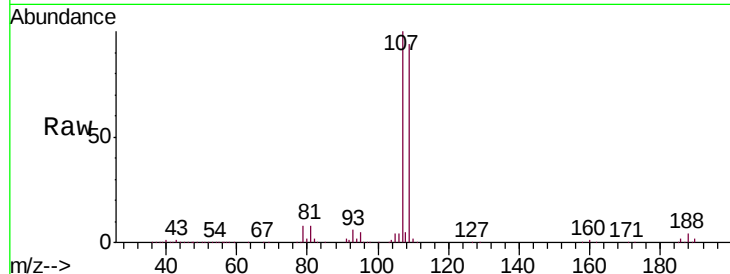




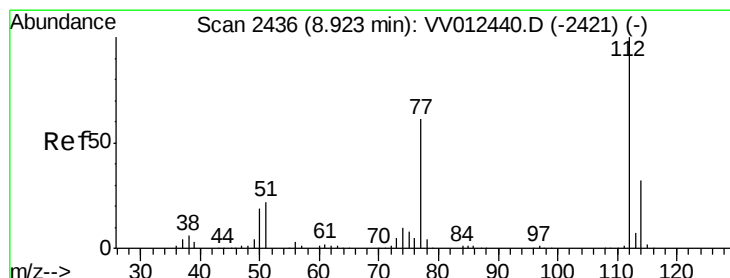
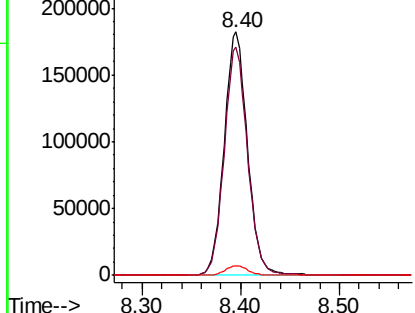
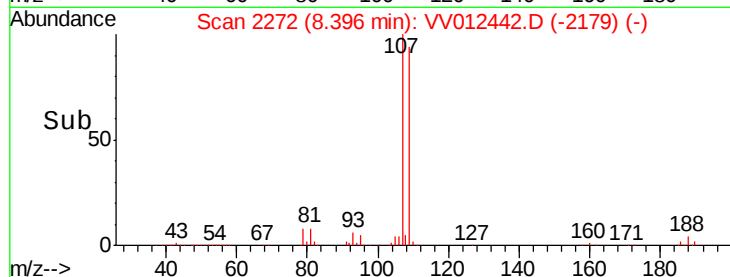
#50
1,2-Dibromoethane
Concen: 20.313 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV012442.D
Acq: 29 Aug 2019 20:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD02033

Tgt Ion:107 Resp: 302925
Ion Ratio Lower Upper
107 100
109 94.0 65.0 120.8
188 4.0 2.8 4.2

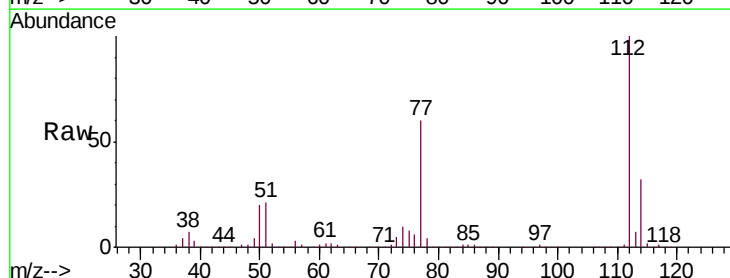


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

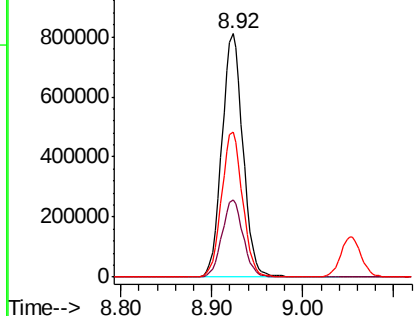
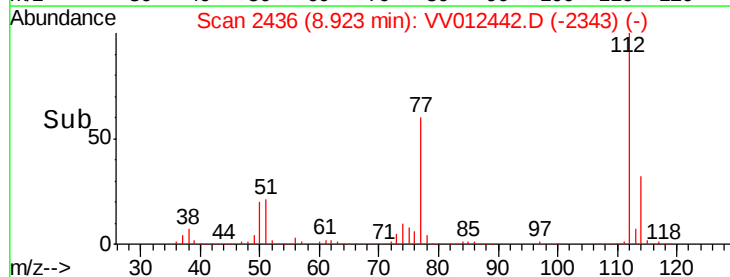


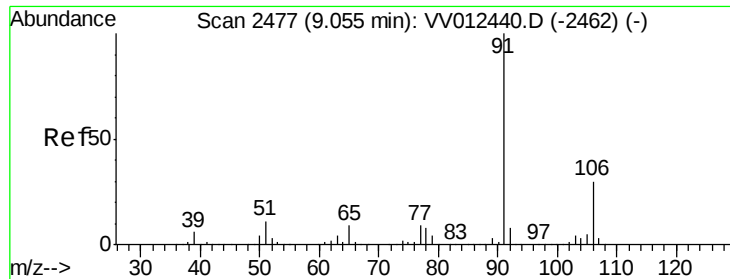
#51
Chlorobenzene
Concen: 20.435 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012442.D
Acq: 29 Aug 2019 20:08

Tgt Ion:112 Resp: 1299178
Ion Ratio Lower Upper
112 100
114 32.0 22.7 42.3
77 59.8 49.0 73.6



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: 22.145 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

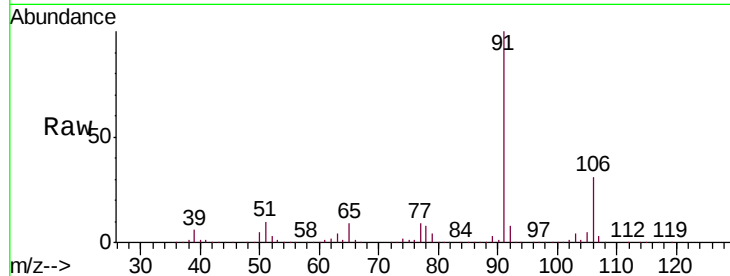
VSTD02033

Tgt Ion: 91 Resp: 2363048

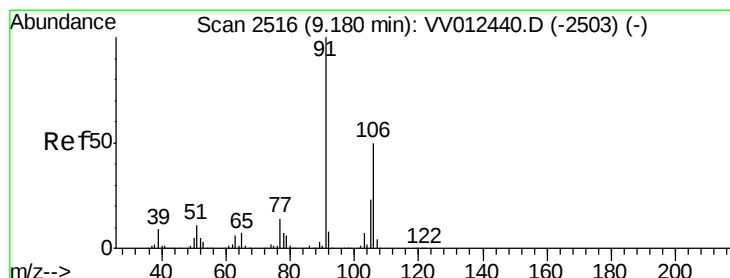
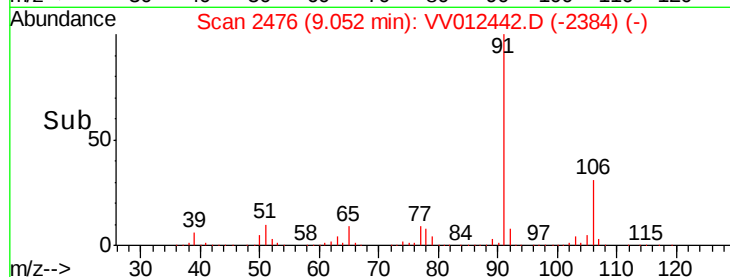
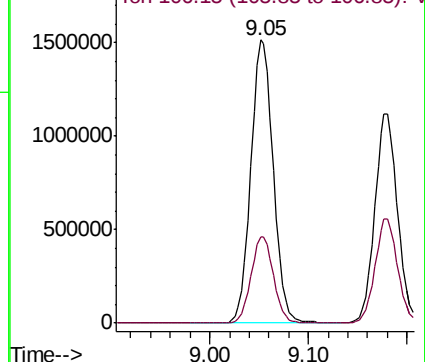
Ion Ratio Lower Upper

91 100

106 30.7 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VV012440.D (-2462) (-)



#53

m,p-xylene

Concen: 22.458 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012442.D

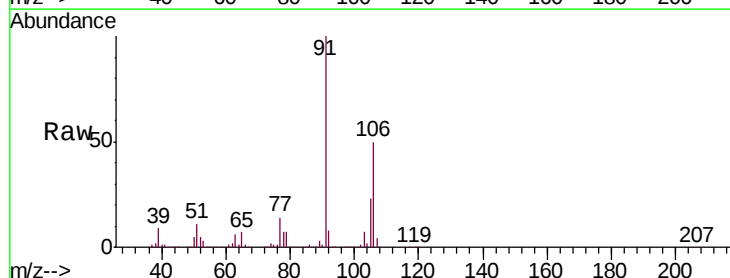
Acq: 29 Aug 2019 20:08

Tgt Ion: 106 Resp: 892699

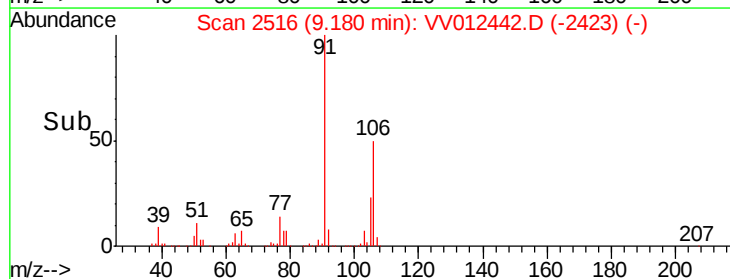
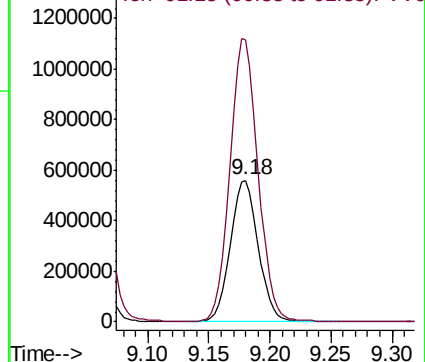
Ion Ratio Lower Upper

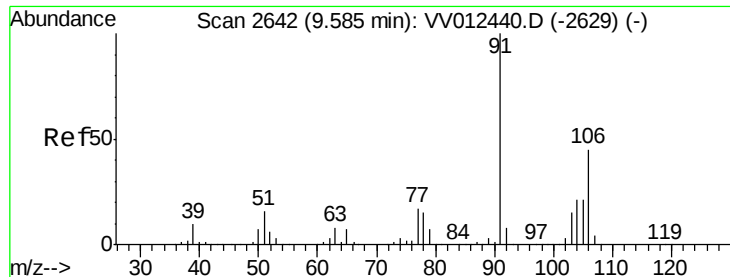
106 100

91 199.9 141.3 262.3



Abundance Ion 106.15 (105.85 to 106.85): VV012440.D (-2503) (-)





#54

o-xylene

Concen: 22.822 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

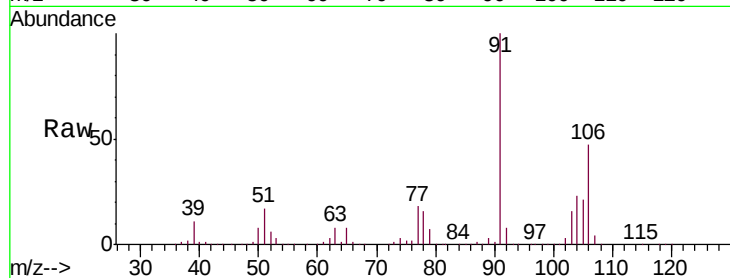
VSTD02033

Tgt Ion:106 Resp: 870527

Ion Ratio Lower Upper

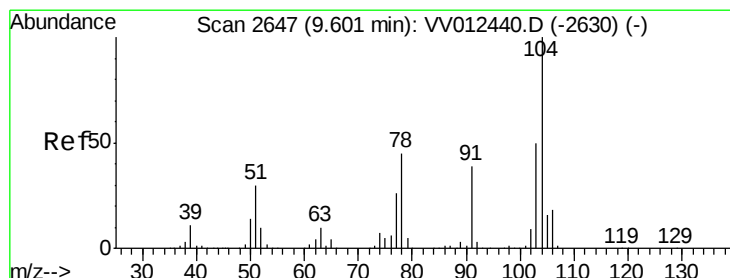
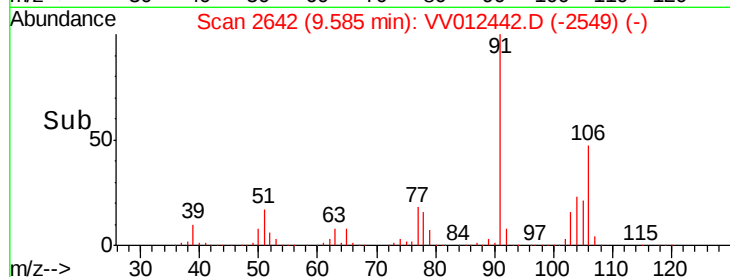
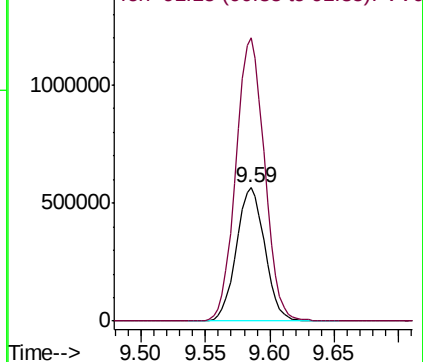
106 100

91 212.5 155.6 289.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 22.988 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012442.D

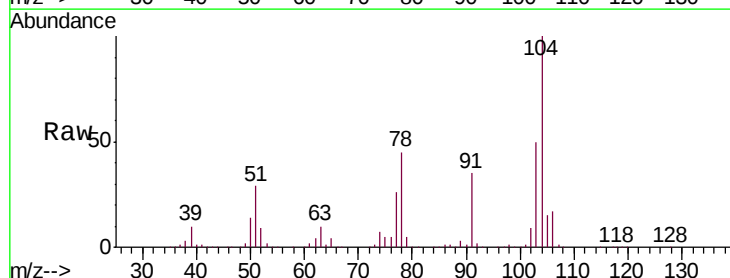
Acq: 29 Aug 2019 20:08

Tgt Ion:104 Resp: 1474883

Ion Ratio Lower Upper

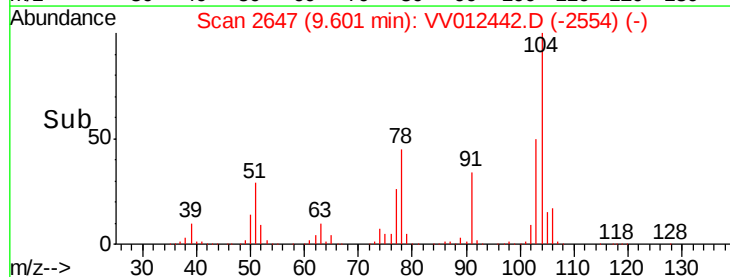
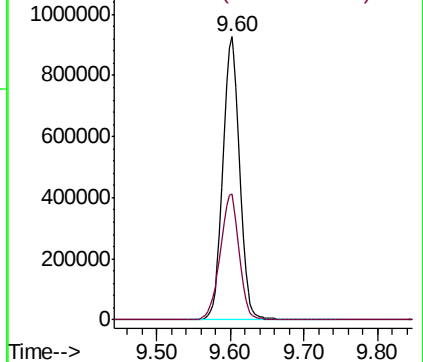
104 100

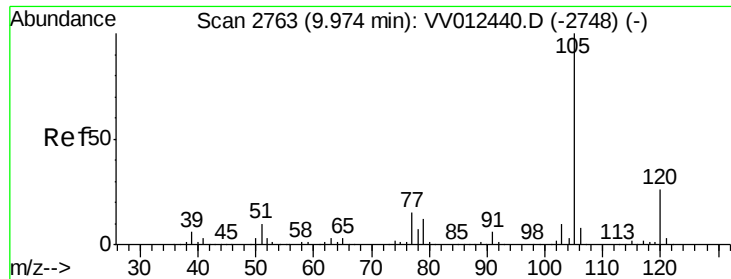
78 44.7 31.8 59.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 22.929 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

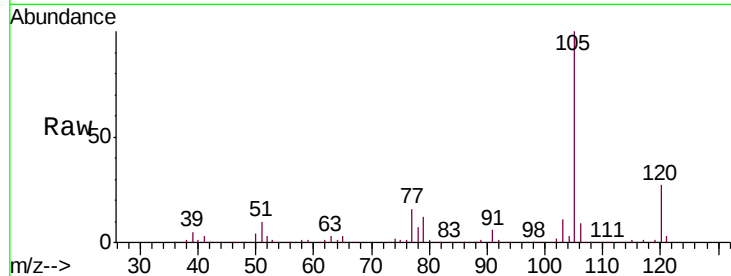
Tgt Ion:105 Resp: 2329959

Ion Ratio Lower Upper

105 100

120 26.5 20.6 31.0

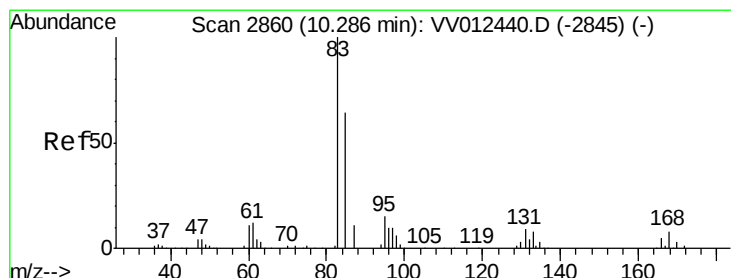
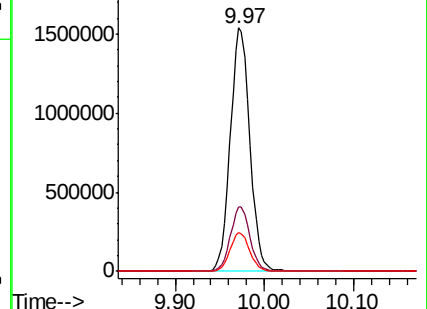
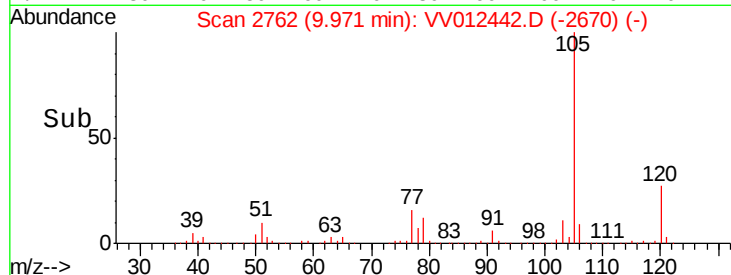
77 15.9 12.7 19.1



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: 19.851 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

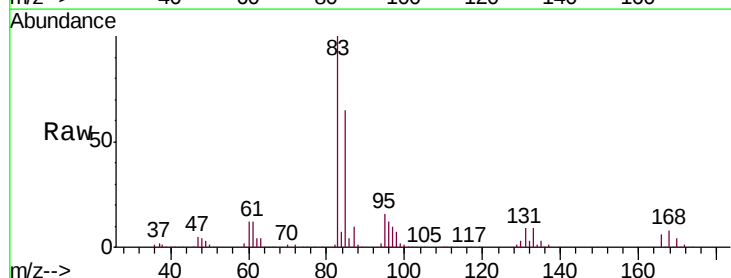
Tgt Ion: 83 Resp: 389857

Ion Ratio Lower Upper

83 100

85 64.9 45.0 83.6

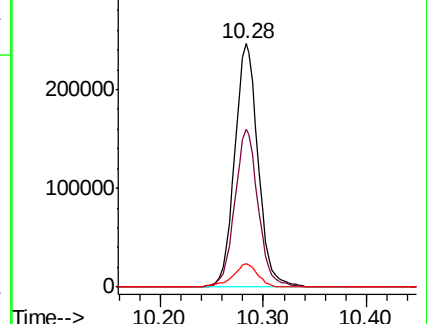
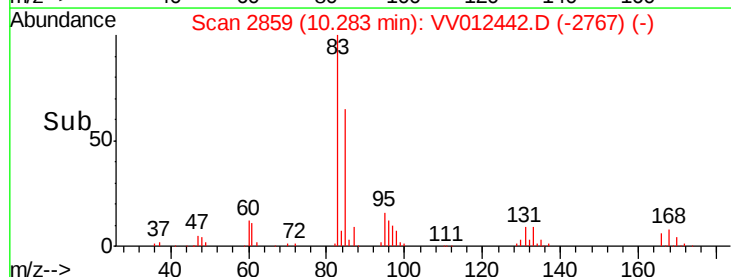
131 9.4 7.4 11.2

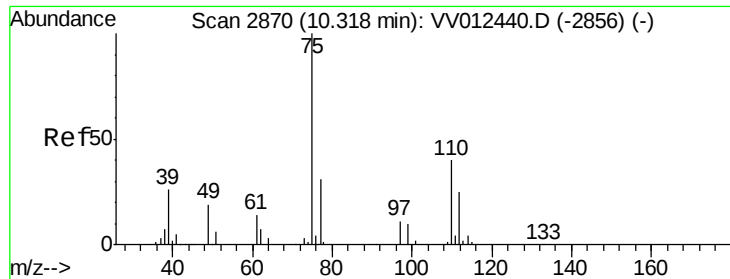


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 19.965 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

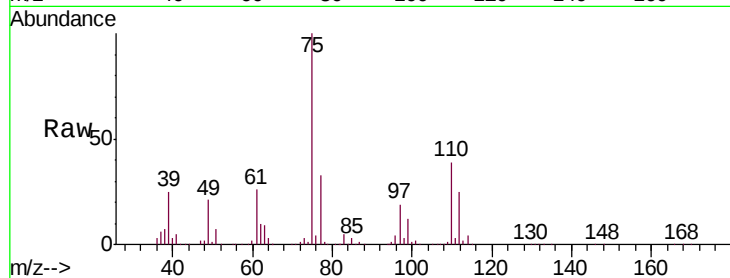
VSTD02033

Tgt Ion: 75 Resp: 279512

Ion Ratio Lower Upper

75 100

77 31.8 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VV012442.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV012442.D (-2856) (-)

10.32

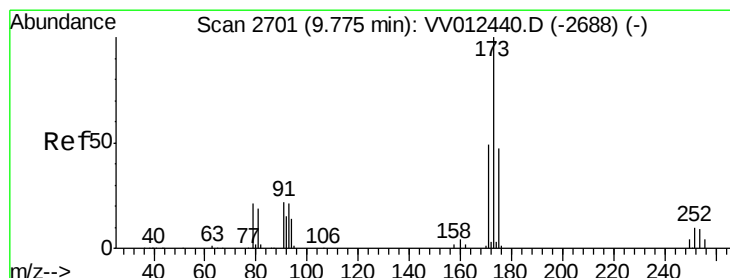
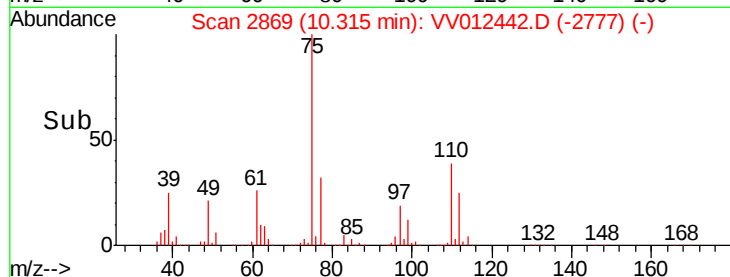
150000

100000

50000

0

Time--> 10.20 10.30 10.40



#61

Bromoform

Concen: 19.419 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

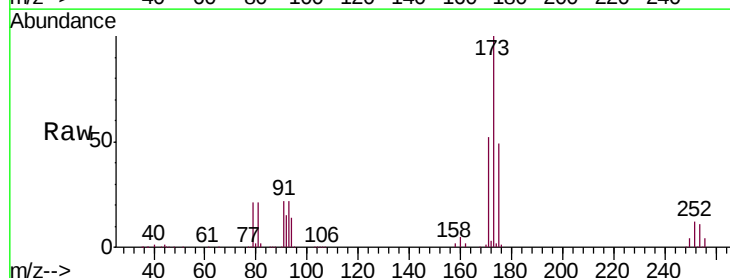
Tgt Ion: 173 Resp: 221319

Ion Ratio Lower Upper

173 100

175 49.2 39.0 58.6

254 11.2 8.4 12.6



Abundance Ion 172.90 (172.60 to 173.60): VV012442.D (-2688) (-)

Ion 174.90 (174.60 to 175.60): VV012442.D (-2688) (-)

Ion 253.75 (253.45 to 254.45): VV012442.D (-2688) (-)

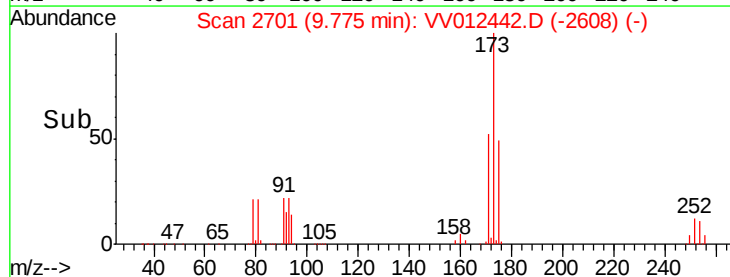
150000

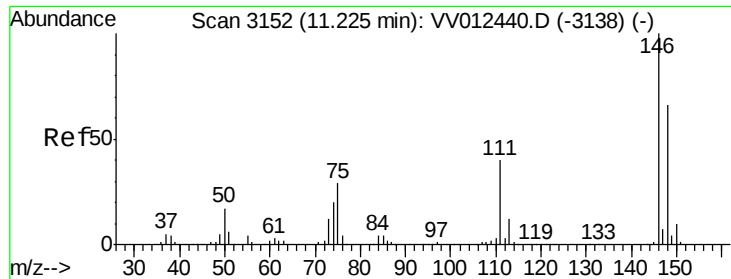
100000

50000

0

Time--> 9.70 9.75 9.80 9.85 9.90





#62

1,3-Dichlorobenzene

Concen: 20.256 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

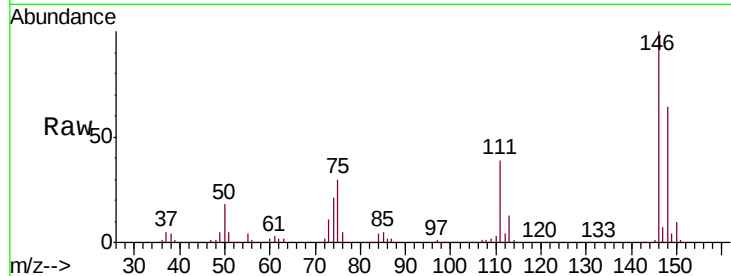
Tgt Ion:146 Resp: 1041593

Ion Ratio Lower Upper

146 100

111 39.4 27.6 51.4

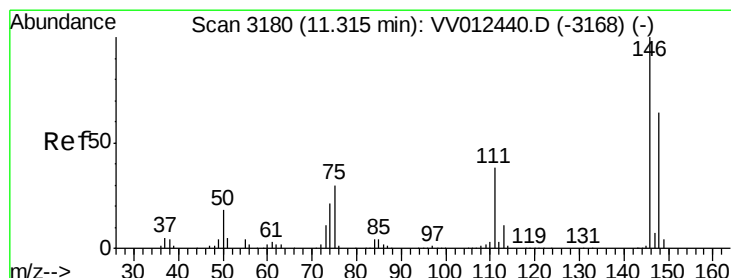
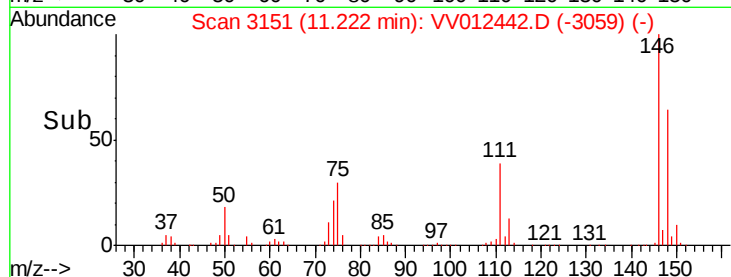
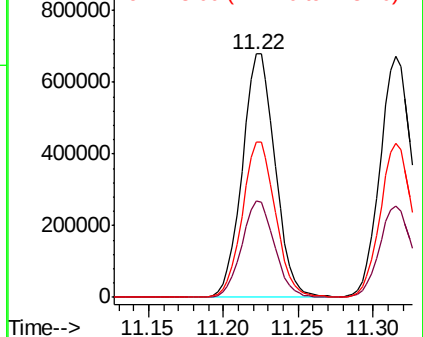
148 63.9 45.8 85.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 19.909 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

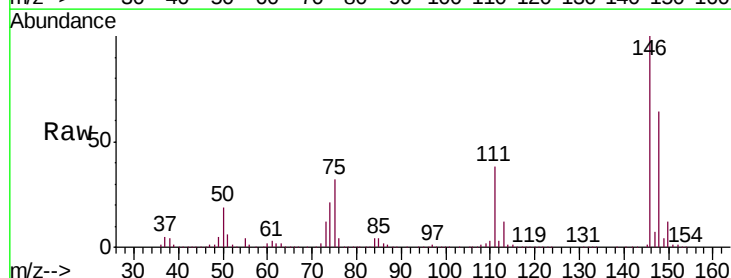
Tgt Ion:146 Resp: 1024582

Ion Ratio Lower Upper

146 100

111 37.9 26.8 49.8

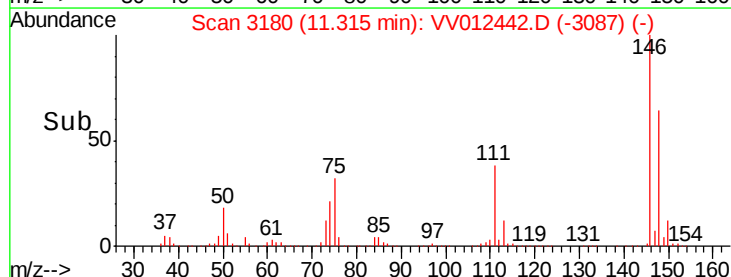
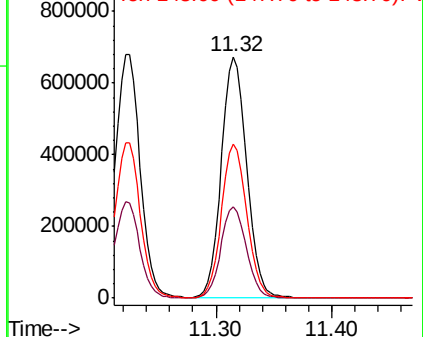
148 63.8 44.5 82.7

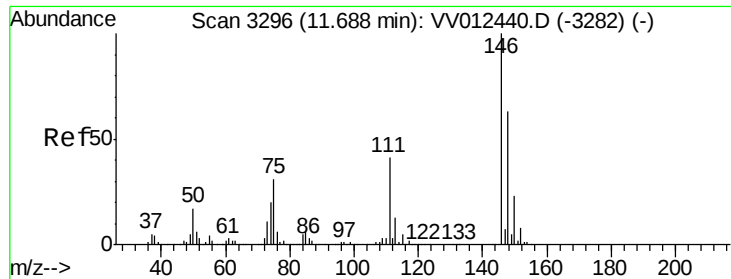


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 19.852 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

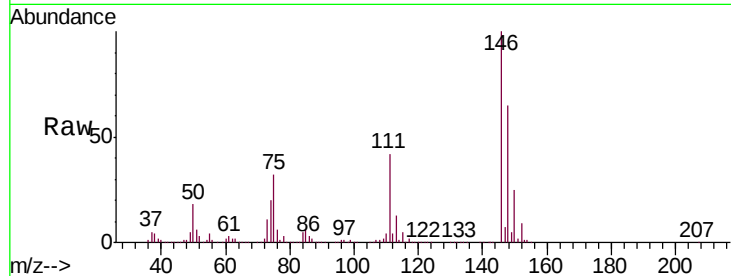
Tgt Ion:146 Resp: 953827

Ion Ratio Lower Upper

146 100

111 41.6 32.5 48.7

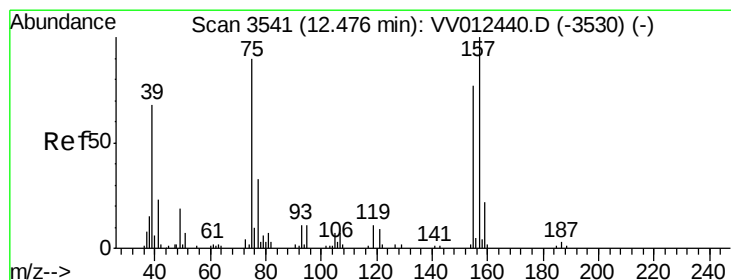
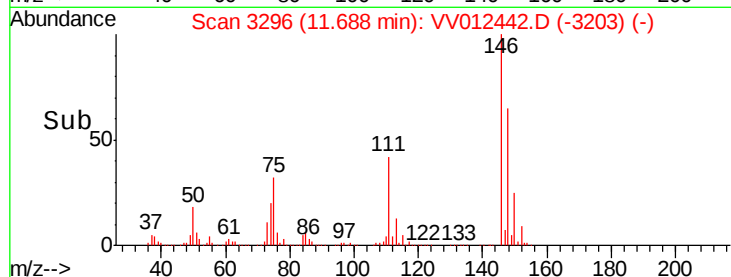
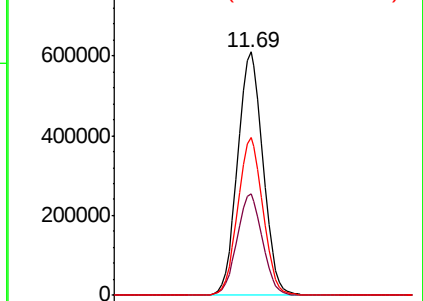
148 65.0 50.2 75.4



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: 18.588 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

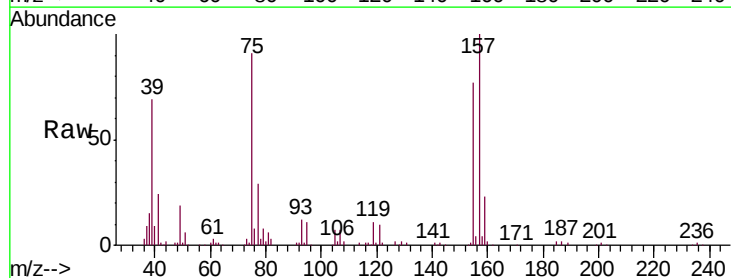
Tgt Ion: 75 Resp: 62244

Ion Ratio Lower Upper

75 100

155 84.8 68.6 102.8

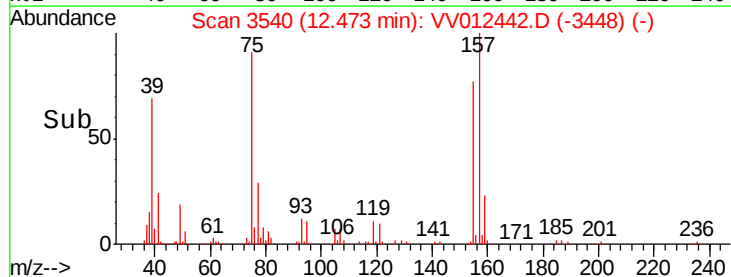
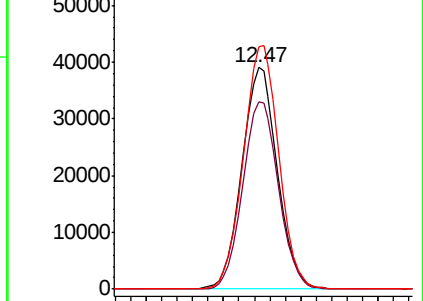
157 109.6 88.6 133.0

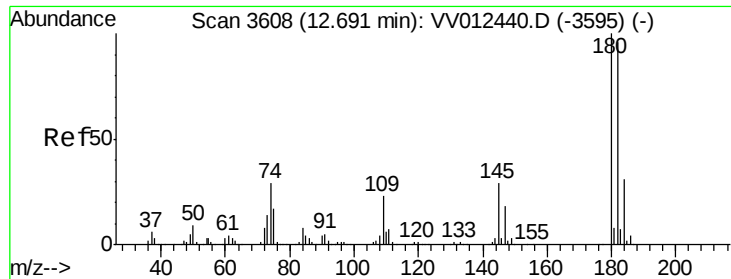


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V





#67

1,3,5-Trichlorobenzene

Concen: 20.749 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

Tgt Ion:180 Resp: 819068

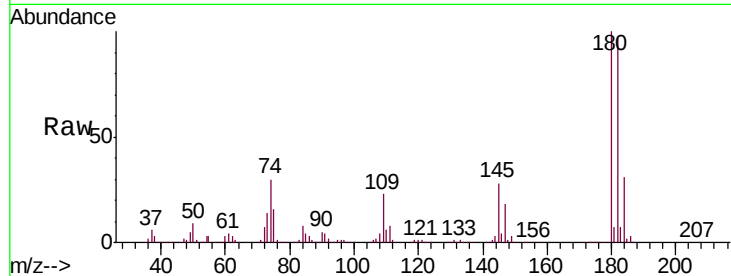
Ion Ratio Lower Upper

180 100

182 95.7 76.6 115.0

184 30.5 24.8 37.2

145 28.7 22.8 34.2

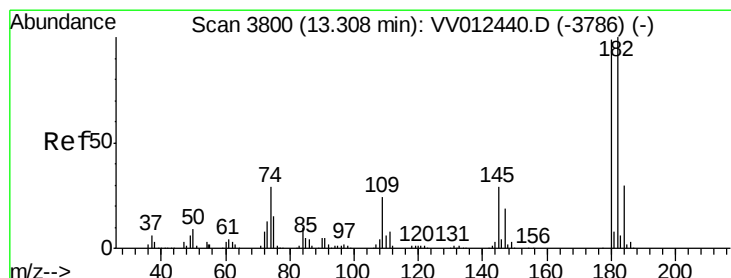
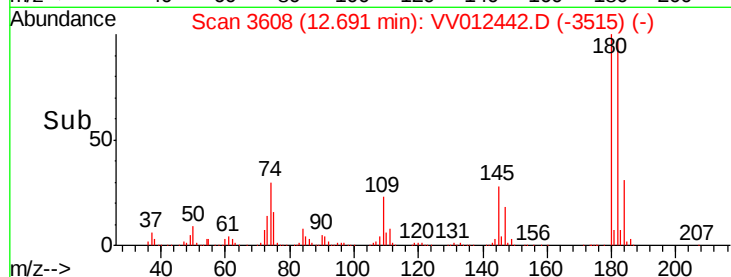
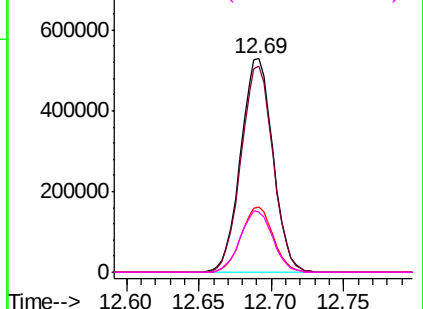


Abundance Ion 180.00 (179.70 to 180.70): V

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: 21.975 ug/L

RT: 13.31 min Scan# 3799

Delta R.T. -0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

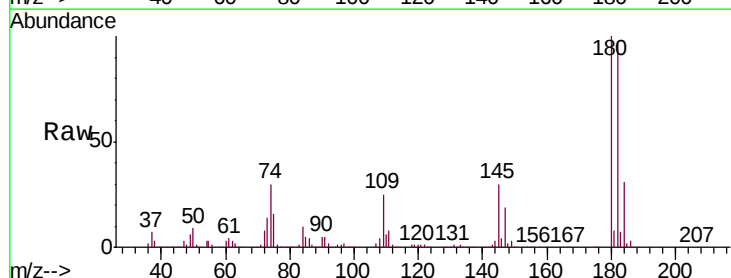
Tgt Ion:180 Resp: 670399

Ion Ratio Lower Upper

180 100

182 96.5 78.1 117.1

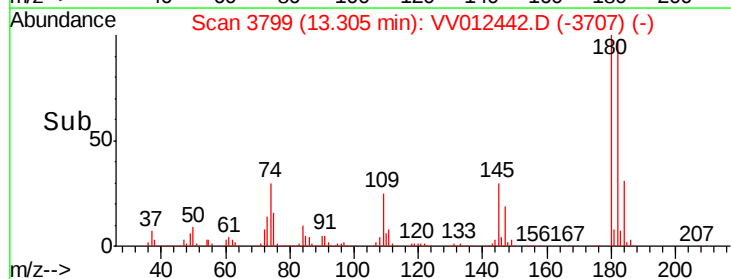
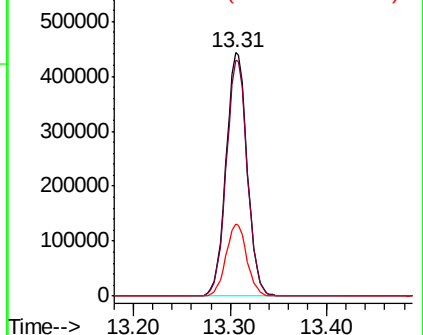
145 29.3 23.4 35.0

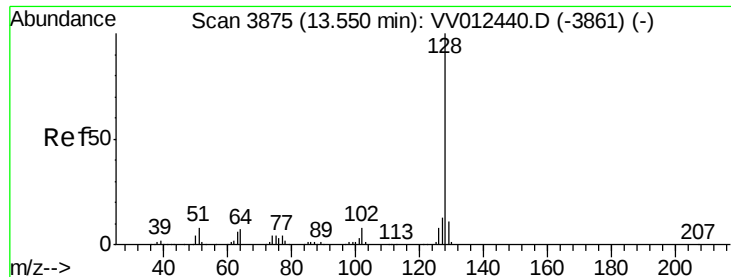


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 23.666 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02033

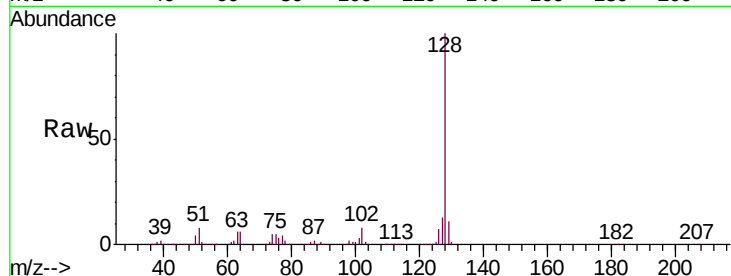
Tgt Ion:128 Resp: 1109431

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

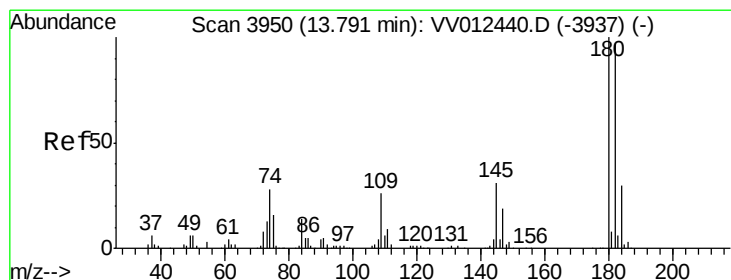
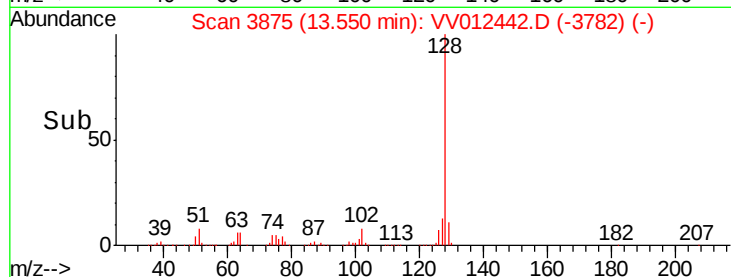
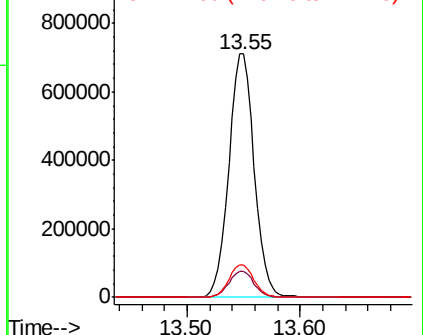
127 13.2 10.7 16.1



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: 21.034 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012442.D

Acq: 29 Aug 2019 20:08

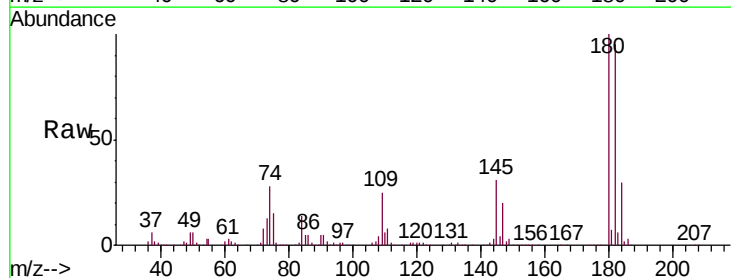
Tgt Ion:180 Resp: 617965

Ion Ratio Lower Upper

180 100

182 95.6 77.5 116.3

145 31.0 25.0 37.6



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

