

Data File : VU032291.D
Acq On : 24 May 2019 05:31
Operator : JC/SP
Sample : VSTD20056
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20056

Quant Time: May 24 05:57:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052419WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 24 05:08:26 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	684850	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	715988	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	364010	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	671302	156.20	ug/L	0.00
7) Chloroethane-d5	1.65	69	661888	173.25	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.26	63	1350279	163.63	ug/L	0.00
21) 2-Butanone-d5	4.17	46	1499695	516.40	ug/L	0.00
24) Chloroform-d	4.64	84	1762137	198.00	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	1108749	208.76	ug/L	0.00
32) Benzene-d6	5.33	84	3522852	189.72	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	1118128	204.48	ug/L	0.00
41) Toluene-d8	7.56	98	3323624	189.85	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	570933	214.25	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	1184708	490.46	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	1998988	224.45	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	1465658	192.51	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	785889	146.445	ug/L	99
3) Chloromethane	1.32	50	957487	194.254	ug/L	100
5) Vinyl chloride	1.40	62	921471	171.206	ug/L	98
6) Bromomethane	1.60	94	678645	178.711	ug/L	99
8) Chloroethane	1.67	64	615563	185.247	ug/L	98
9) Trichlorofluoromethane	1.87	101	1153177	154.337	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	665427	149.556	ug/L	99
12) 1,1-Dichloroethene	2.27	96	754450	167.540	ug/L	97
13) Acetone	2.32	43	987867	357.251	ug/L	96
14) Carbon disulfide	2.46	76	2211587	168.037	ug/L	99
15) Methyl Acetate	2.61	43	1025038	239.347	ug/L	100
16) Methylene chloride	2.69	84	1074440	199.252	ug/L	100
17) trans-1,2-Dichloroethene	2.97	96	881042	186.523	ug/L	97
18) Methyl tert-butyl Ether	2.99	73	3191676	225.245	ug/L	100
19) 1,1-Dichloroethane	3.43	63	1619297	198.058	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	1099864	202.869	ug/L	94
22) 2-Butanone	4.25	43	1596304	492.555	ug/L	99
23) Bromochloromethane	4.54	128	609015	208.195	ug/L	97
25) Chloroform	4.67	83	1787874	199.445	ug/L	98
27) 1,2-Dichloroethane	5.40	62	1402761	210.023	ug/L	98
29) Cyclohexane	4.99	56	1123557	174.200	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	1318608	174.352	ug/L	100
31) Carbon tetrachloride	5.13	117	1081345	164.616	ug/L	99
33) Benzene	5.38	78	3857794	191.697	ug/L	100
34) Trichloroethene	6.18	95	951166	178.642	ug/L	98
35) Methylcyclohexane	6.41	83	1239898	160.071	ug/L	99
37) 1,2-Dichloropropane	6.42	63	1012519	203.081	ug/L	100
38) Bromodichloromethane	6.75	83	1421800	207.395	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	1657430	215.025	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	3123080	528.729	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	4226875	191.969	ug/L	98
44) trans-1,3-Dichloropropene	7.87	75	1499978	218.248	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	1139956	210.442	ug/L	99
46) Tetrachloroethene	8.22	164	716620	166.854	ug/L	99
48) 2-Hexanone	8.36	43	2558127	509.136	ug/L	99
49) Dibromochloromethane	8.47	129	1283766	222.342	ug/L	99
50) 1,2-Dibromoethane	8.58	107	1254266	219.304	ug/L	99
51) Chlorobenzene	9.12	112	2817027	189.446	ug/L	99
52) Ethylbenzene	9.24	91	4505795	191.854	ug/L	99
53) m,p-Xylene	9.37	106	1766286	191.722	ug/L	97
54) o-xylene	9.77	106	1859425	203.241	ug/L	96
55) Styrene	9.79	104	3336751	211.822	ug/L	99
56) Isopropylbenzene	10.16	105	4418071	189.927	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	2012929	220.795	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	1586102	227.192	ug/L	99
61) Bromoform	9.95	173	1065747	225.194	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	2242594	190.034	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	2281156	183.355	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	2372240	190.414	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	475544	238.634	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	1646552	183.539	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	1506891	215.018	ug/L	98
69) Naphthalene	13.74	128	5626187	259.748	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	1634286	206.770	ug/L	99

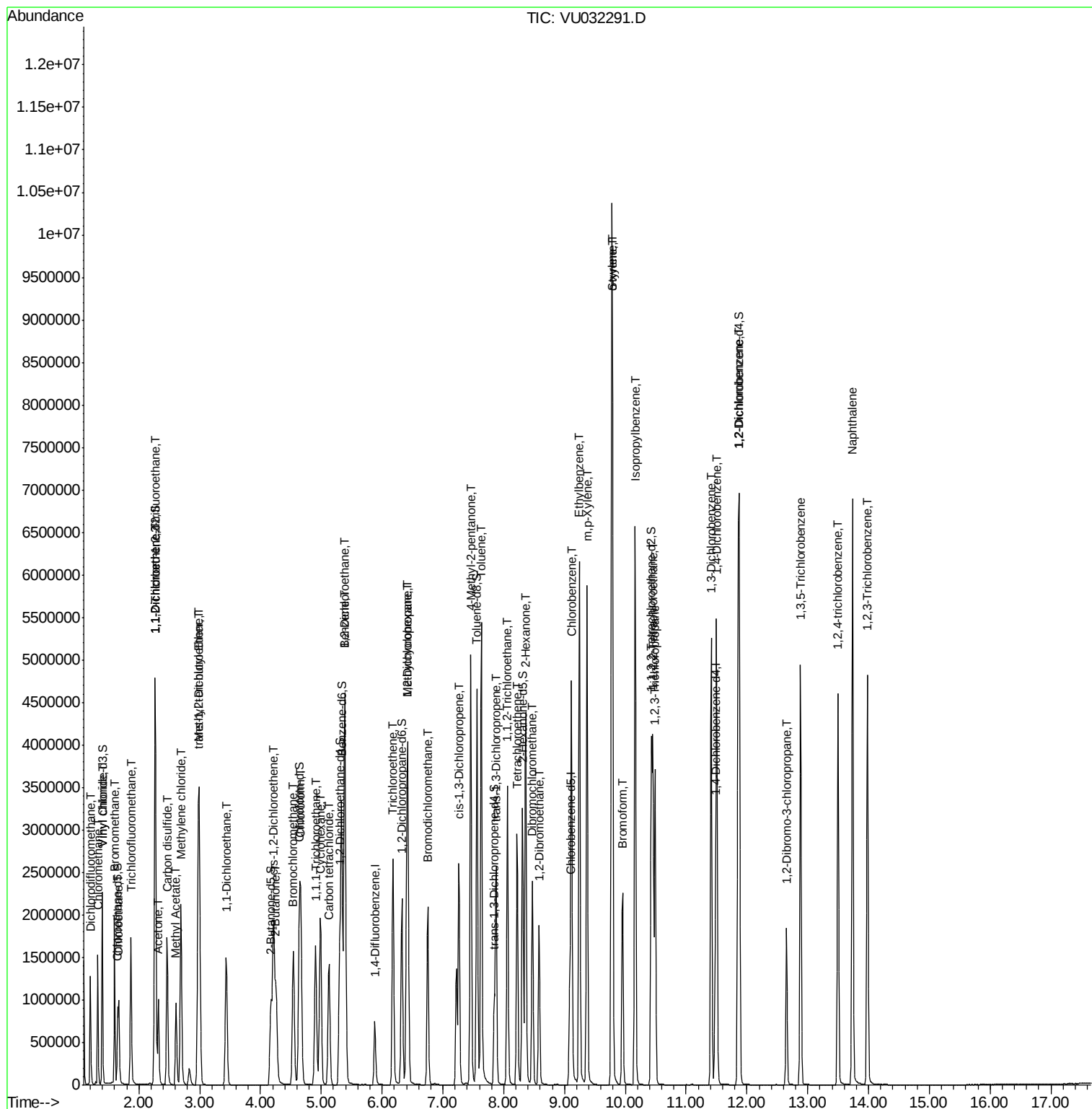
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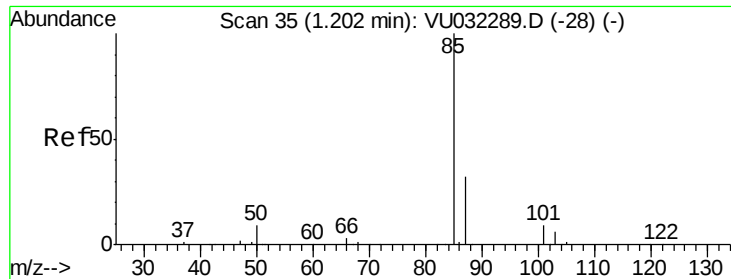
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#2

Dichlorodifluoromethane

Concen: 146.445 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

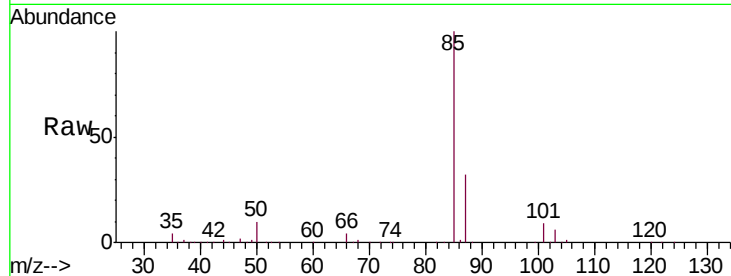
VSTD20056

Tgt Ion: 85 Resp: 785889

Ion Ratio Lower Upper

85 100

87 32.1 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VU032289.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032289.D (-28) (-)

1.20

800000

600000

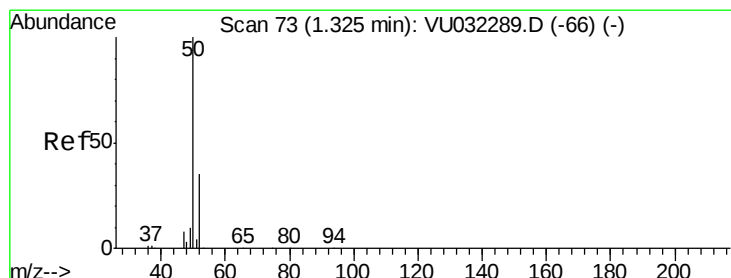
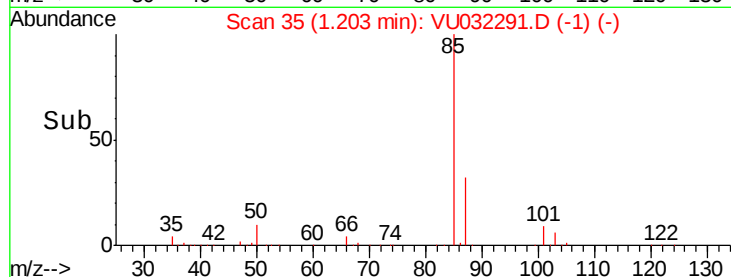
400000

200000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 194.254 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU032291.D

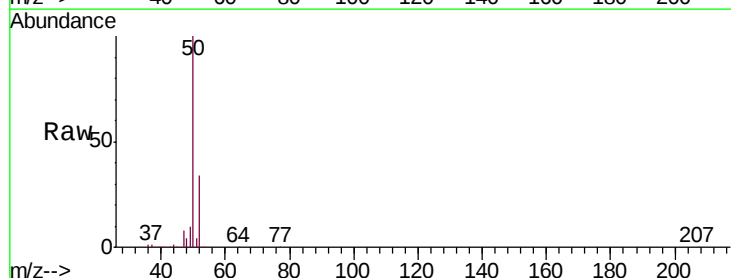
Acq: 24 May 2019 05:31

Tgt Ion: 50 Resp: 957487

Ion Ratio Lower Upper

50 100

52 34.3 24.2 45.0



Abundance Ion 50.00 (49.70 to 50.70): VU032289.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU032289.D (-66) (-)

1.32

1000000

800000

600000

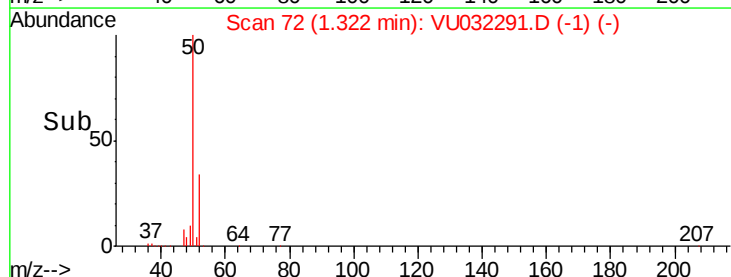
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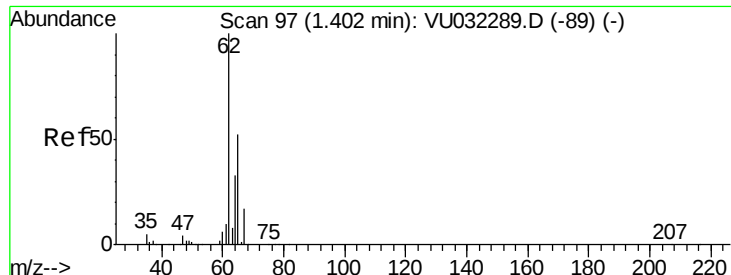
200000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 171.206 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

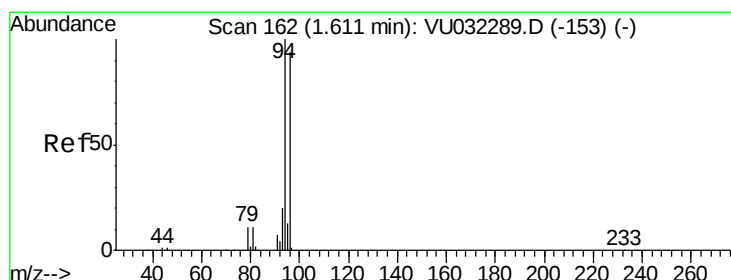
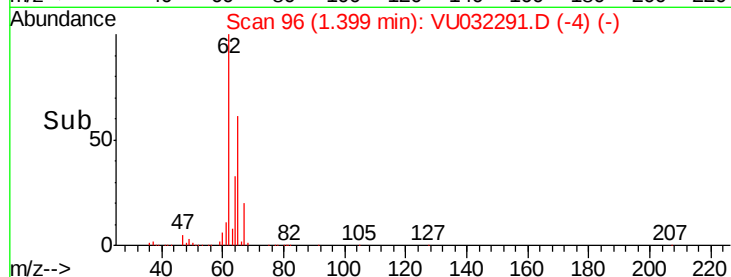
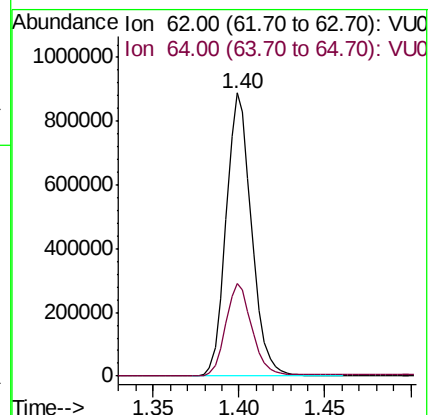
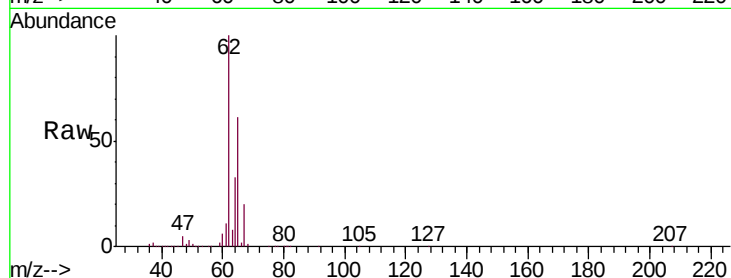
VSTD20056

Tgt Ion: 62 Resp: 921471

Ion Ratio Lower Upper

62 100

64 33.0 23.8 44.2



#6

Bromomethane

Concen: 178.711 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.01 min

Lab File: VU032291.D

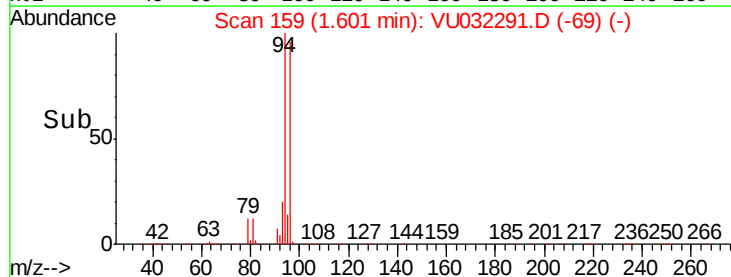
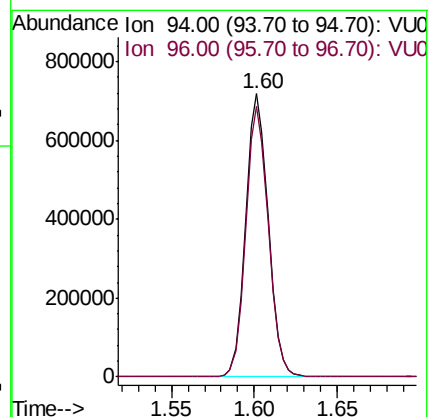
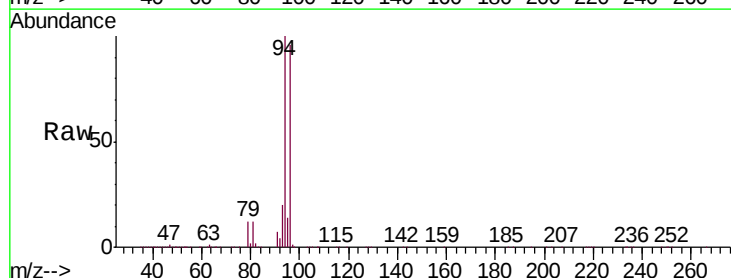
Acq: 24 May 2019 05:31

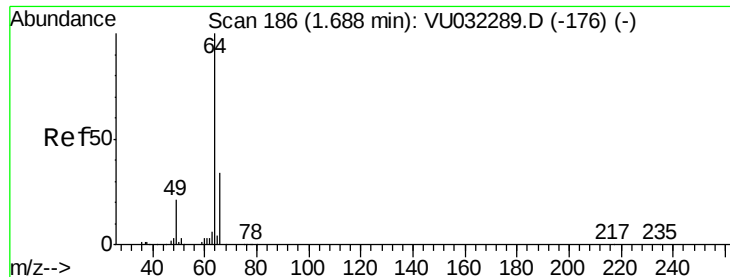
Tgt Ion: 94 Resp: 678645

Ion Ratio Lower Upper

94 100

96 95.7 66.0 122.6





#8

Chloroethane

Concen: 185.247 ug/L

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

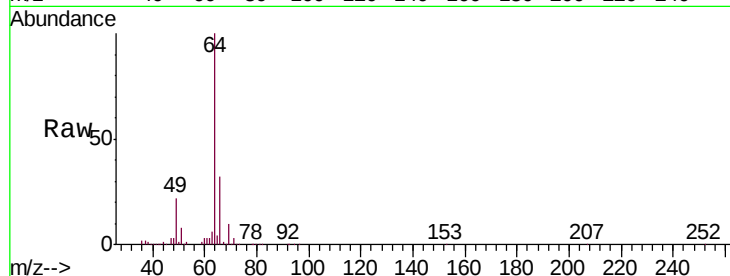
VSTD20056

Tgt Ion: 64 Resp: 615563

Ion Ratio Lower Upper

64 100

66 32.2 23.4 43.6



Abundance Ion 64.00 (63.70 to 64.70): VU032289.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU032289.D (-176) (-)

1.67

500000

400000

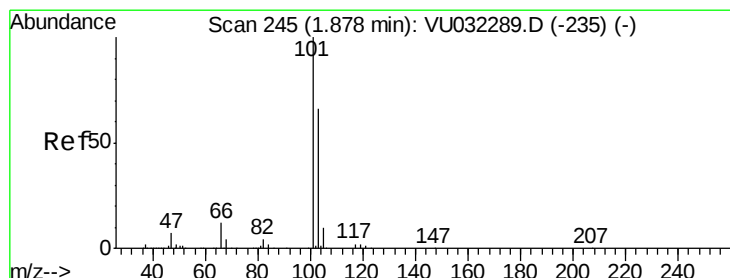
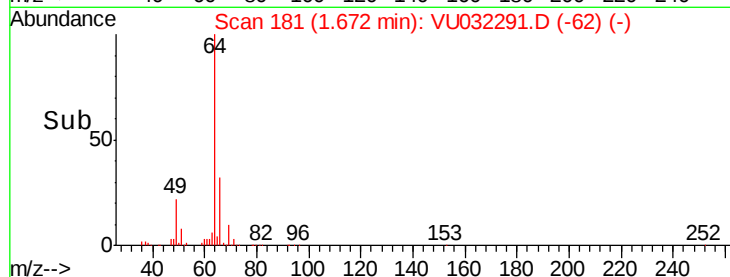
300000

200000

100000

0

Time--> 1.60 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 154.337 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.01 min

Lab File: VU032291.D

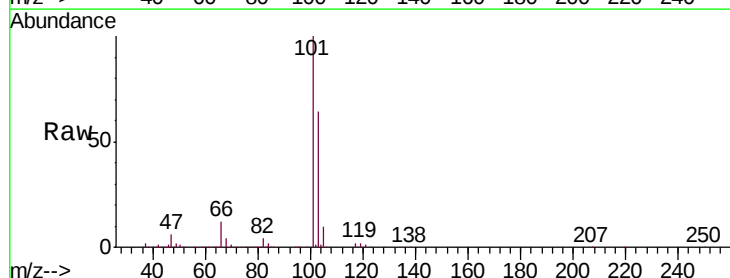
Acq: 24 May 2019 05:31

Tgt Ion: 101 Resp: 1153177

Ion Ratio Lower Upper

101 100

103 64.7 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): VU032289.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU032289.D (-235) (-)

1.87

800000

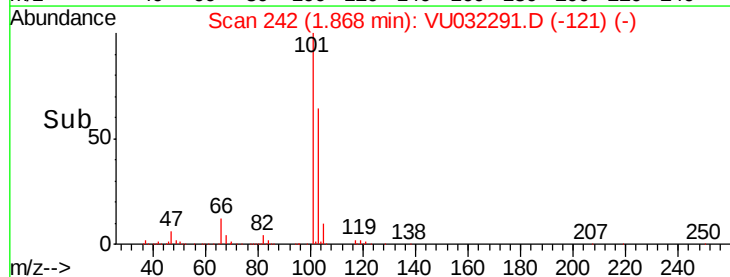
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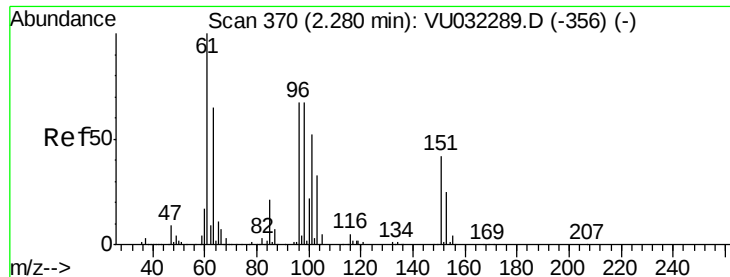
400000

200000

0

Time--> 1.80 1.90 2.00





#10

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

Concen: 149.556 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20056

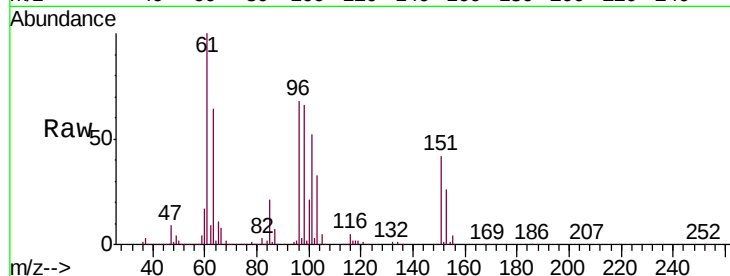
Tgt Ion: 101 Resp: 665427

Ion Ratio Lower Upper

101 100

85 40.6 32.8 49.2

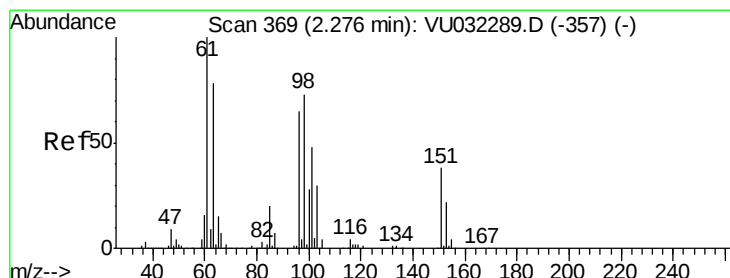
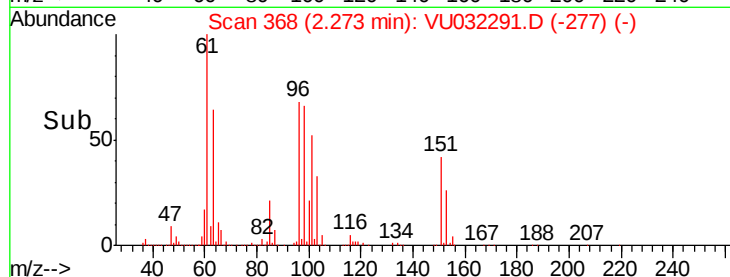
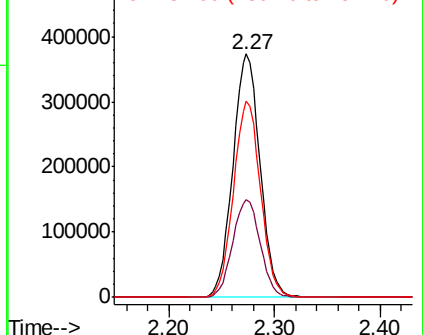
151 80.2 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 167.540 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

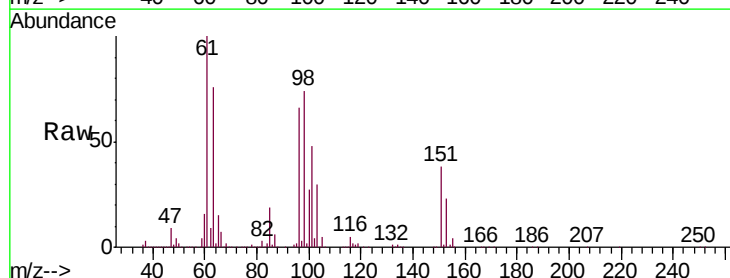
Tgt Ion: 96 Resp: 754450

Ion Ratio Lower Upper

96 100

61 151.8 108.0 200.6

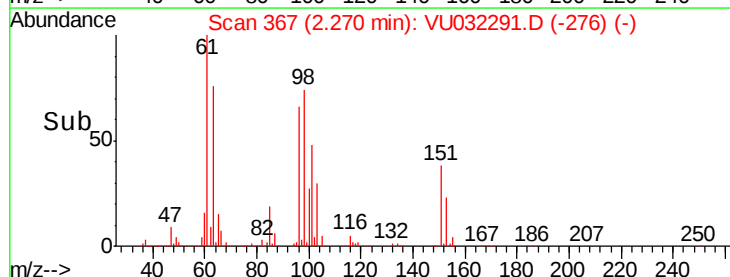
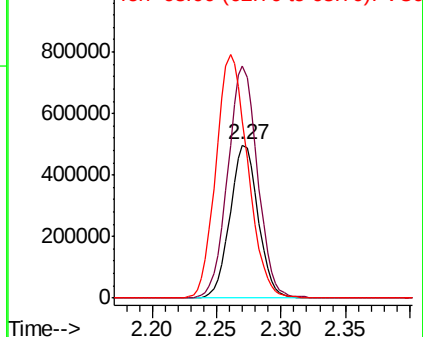
63 116.0 85.5 158.7

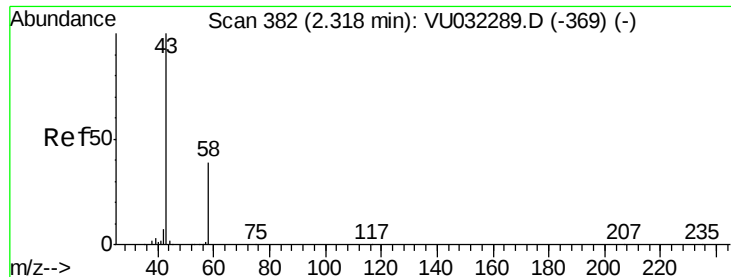


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 357.251 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

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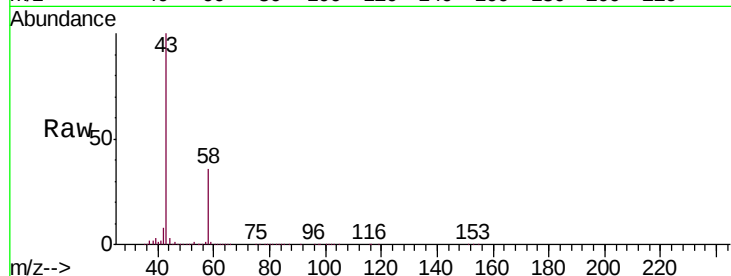
VSTD20056

Tgt Ion: 43 Resp: 987867

Ion Ratio Lower Upper

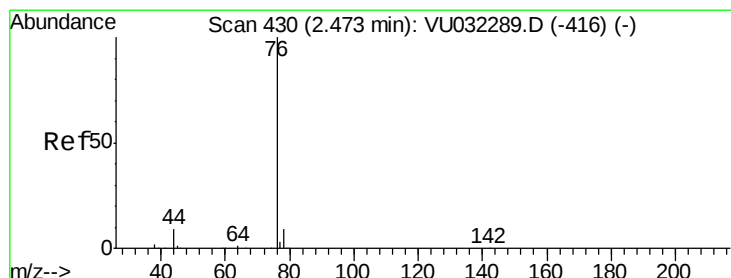
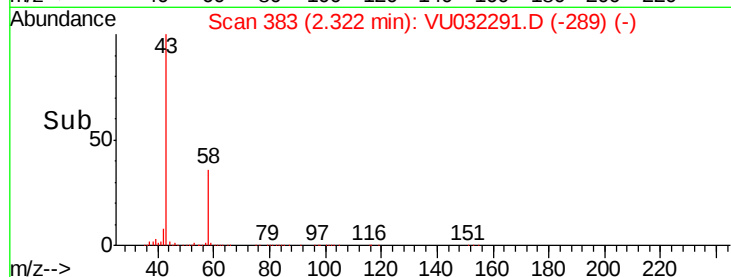
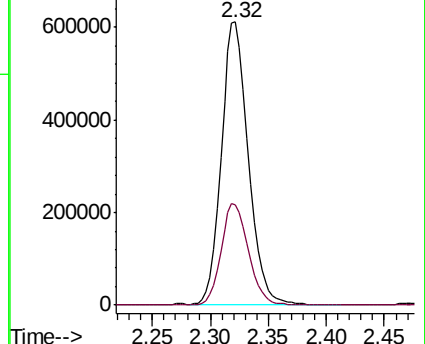
43 100

58 36.2 0.0 77.2



Abundance Ion 43.00 (42.70 to 43.70): VU032289.D (-369) (-)

Ion 58.00 (57.70 to 58.70): VU032289.D (-369) (-)



#14

Carbon disulfide

Concen: 168.037 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.01 min

Lab File: VU032291.D

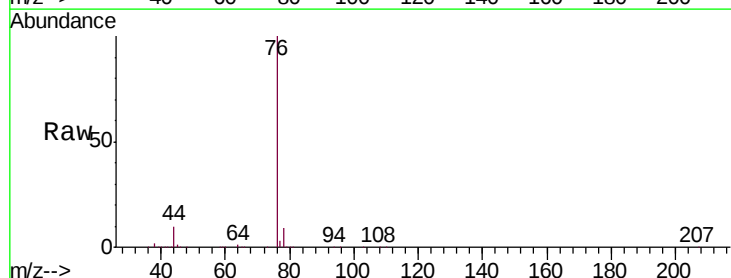
Acq: 24 May 2019 05:31

Tgt Ion: 76 Resp: 2211587

Ion Ratio Lower Upper

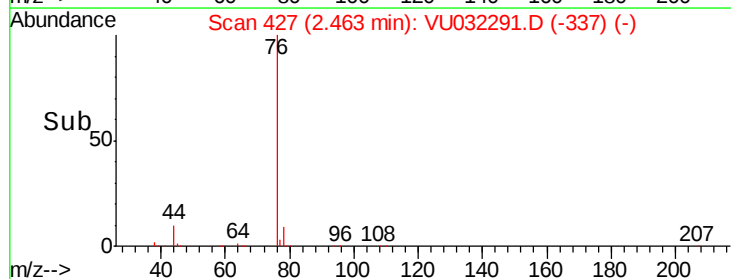
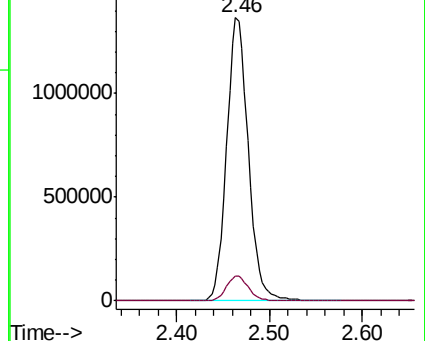
76 100

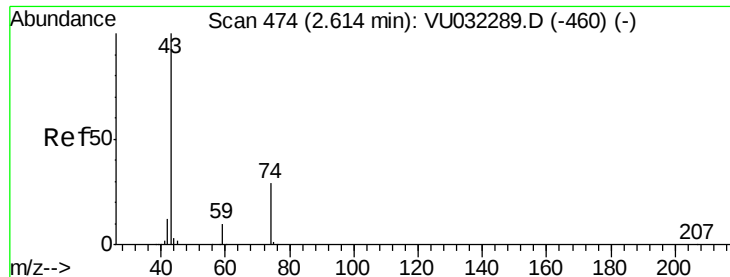
78 8.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU032289.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU032289.D (-416) (-)

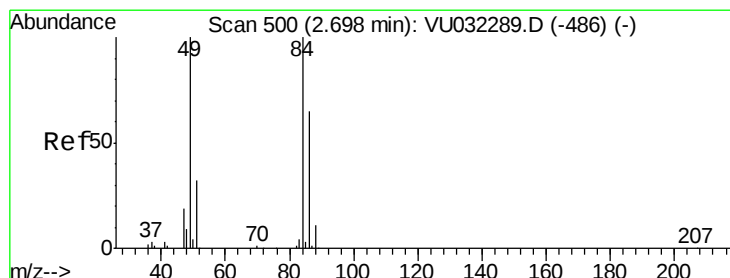
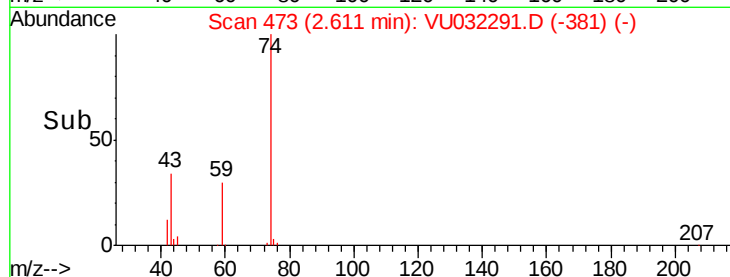
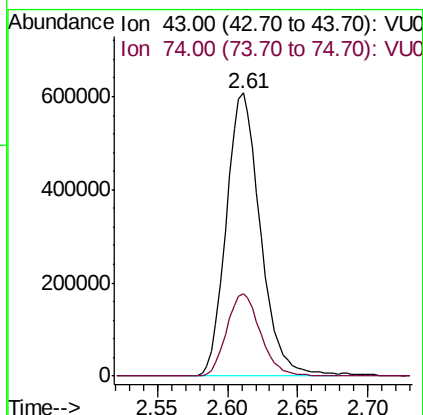
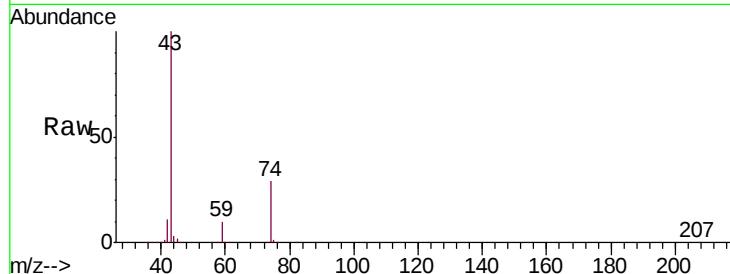




#15
Methyl Acetate
Concen: 239.347 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU032291.D
Acq: 24 May 2019 05:31

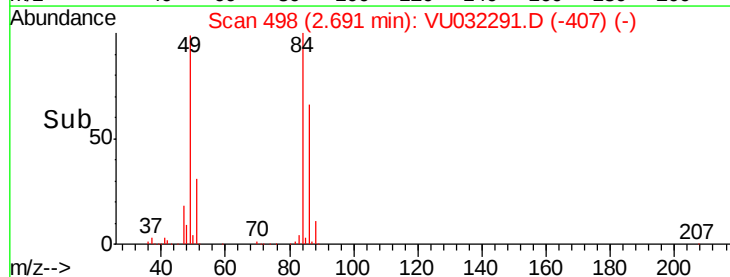
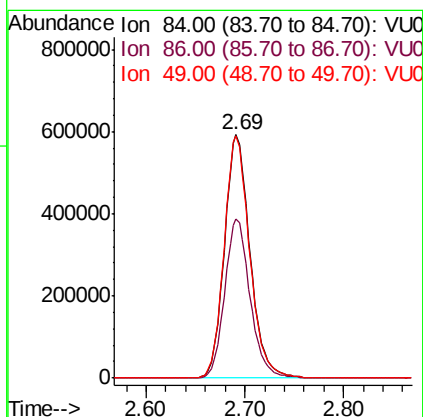
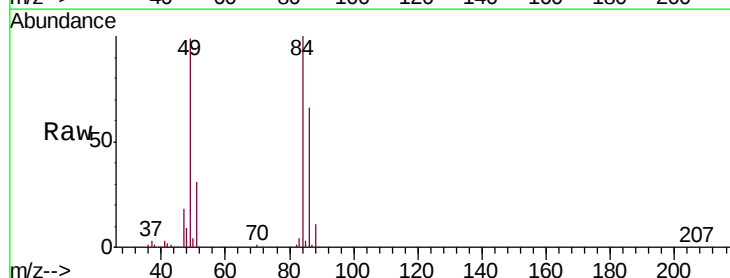
Instrument :
MSVOA_U
ClientSampleId :
VSTD20056

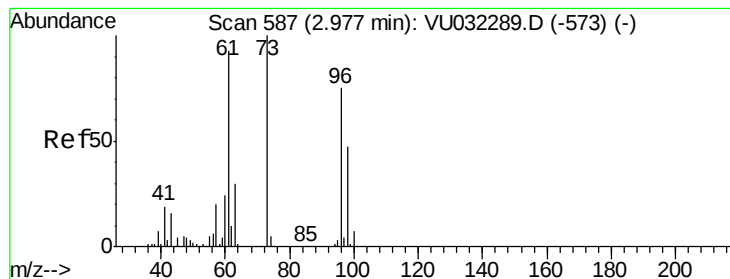
Tgt Ion: 43 Resp: 1025038
Ion Ratio Lower Upper
43 100
74 29.1 23.1 34.7



#16
Methylene chloride
Concen: 199.252 ug/L
RT: 2.69 min Scan# 498
Delta R.T. -0.01 min
Lab File: VU032291.D
Acq: 24 May 2019 05:31

Tgt Ion: 84 Resp: 1074440
Ion Ratio Lower Upper
84 100
86 65.5 45.7 84.9
49 99.4 70.0 130.0





#17

trans-1,2-Dichloroethene

Concen: 186.523 ug/L

RT: 2.97 min Scan# 585

Delta R.T. -0.01 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20056

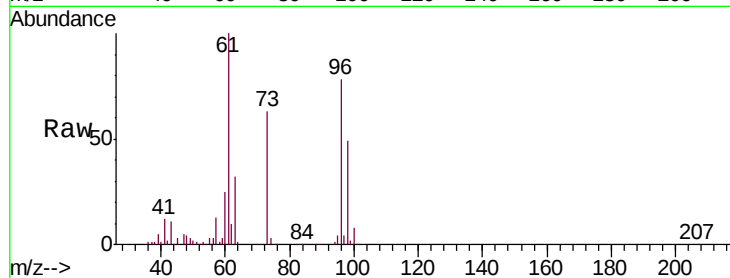
Tgt Ion: 96 Resp: 881042

Ion Ratio Lower Upper

96 100

61 127.8 86.5 160.7

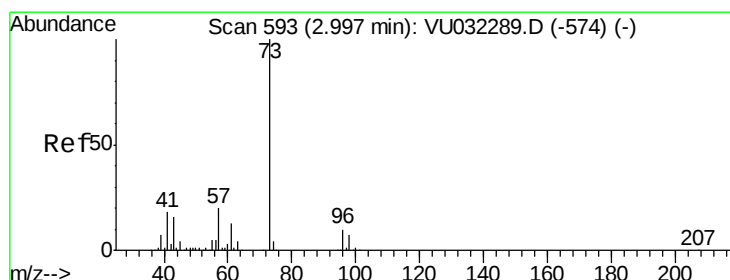
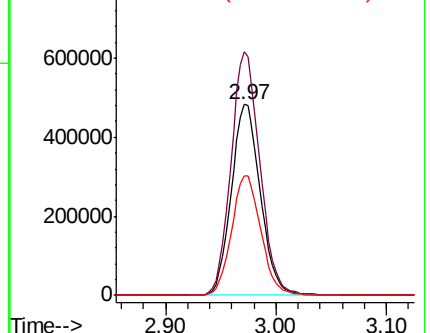
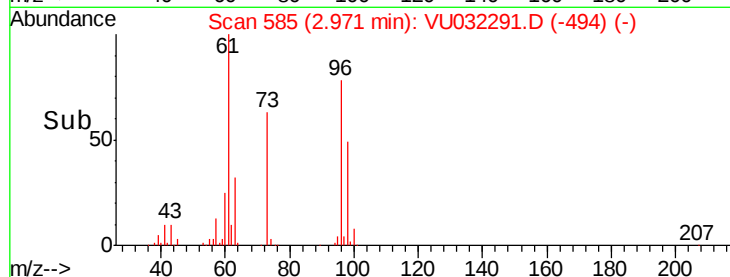
98 63.0 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU032291.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU032291.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU032291.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 225.245 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

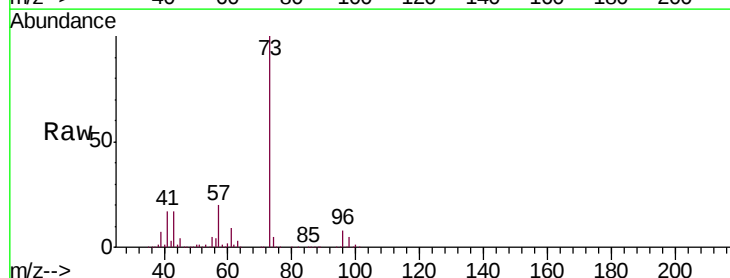
Tgt Ion: 73 Resp: 3191676

Ion Ratio Lower Upper

73 100

43 16.5 13.2 19.8

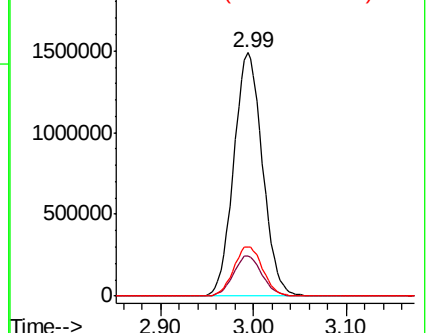
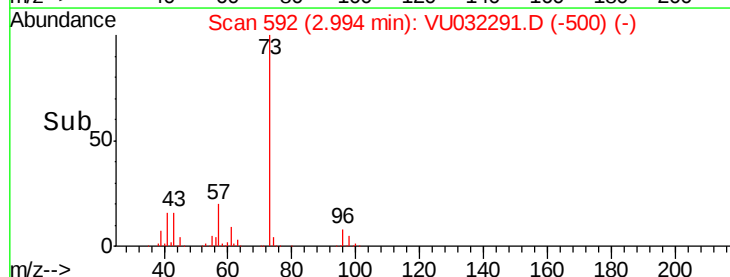
57 20.6 16.5 24.7

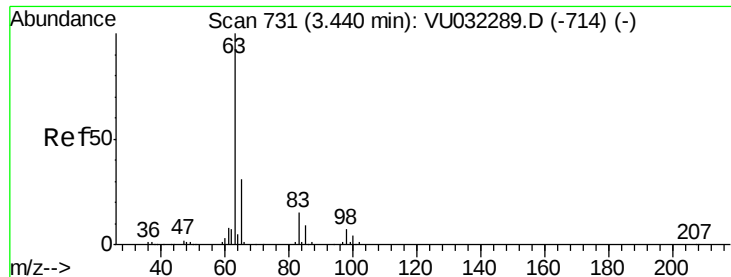


Abundance Ion 73.00 (72.70 to 73.70): VU032291.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU032291.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU032291.D (-500) (-)





#19

1,1-Dichloroethane

Concen: 198.058 ug/L

RT: 3.43 min Scan# 729

Delta R.T. -0.01 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20056

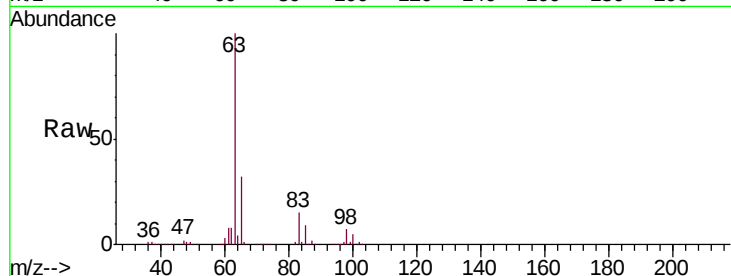
Tgt Ion: 63 Resp: 1619297

Ion Ratio Lower Upper

63 100

65 32.0 21.6 40.0

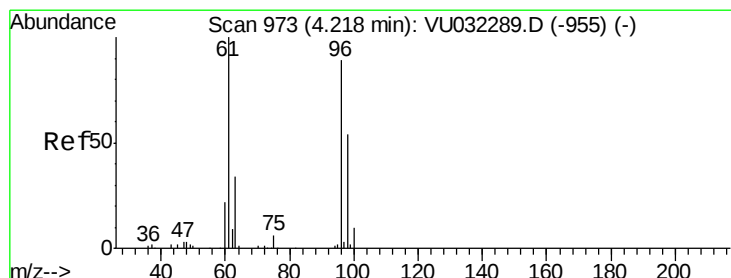
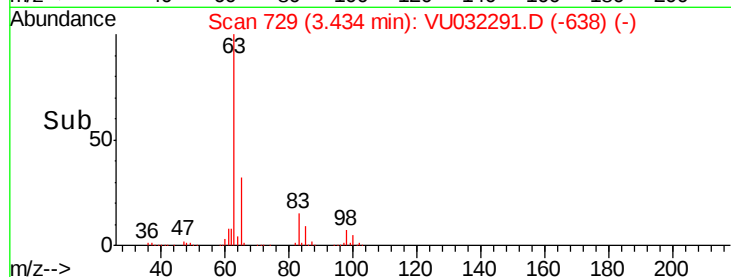
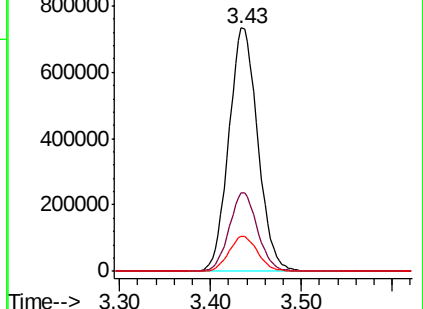
83 14.6 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VU032291.D (-880) (-)

Ion 65.00 (64.70 to 65.70): VU032291.D (-880) (-)

Ion 83.00 (82.70 to 83.70): VU032291.D (-880) (-)



#20

cis-1,2-Dichloroethene

Concen: 202.869 ug/L

RT: 4.22 min Scan# 972

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

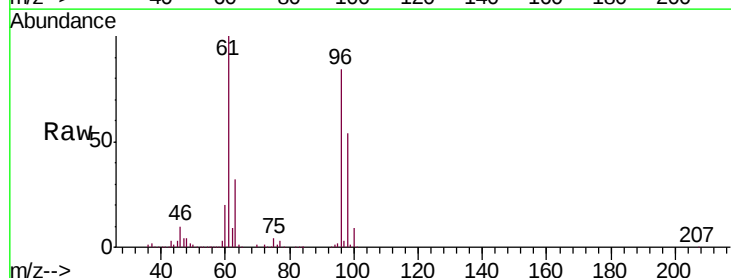
Tgt Ion: 96 Resp: 1099864

Ion Ratio Lower Upper

96 100

61 118.4 78.5 145.9

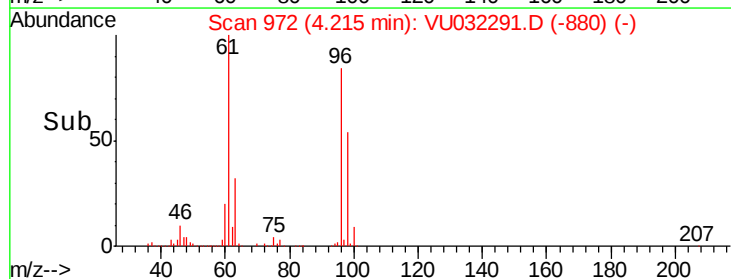
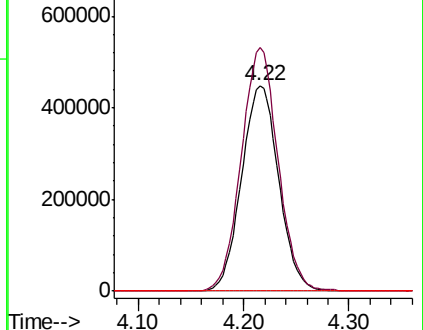
68 0.0 0.0 0.0

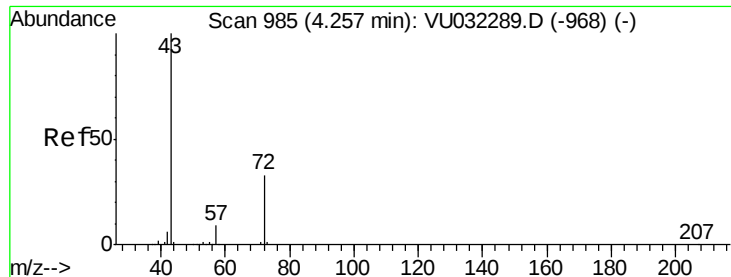


Abundance Ion 96.00 (95.70 to 96.70): VU032291.D (-880) (-)

Ion 61.00 (60.70 to 61.70): VU032291.D (-880) (-)

Ion 68.00 (67.70 to 68.70): VU032291.D (-880) (-)





#22

2-Butanone

Concen: 492.555 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

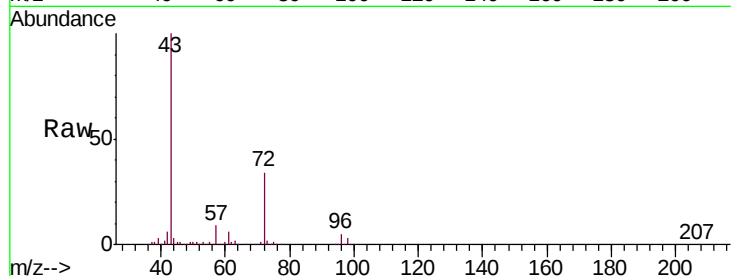
VSTD20056

Tgt Ion: 43 Resp: 1596304

Ion Ratio Lower Upper

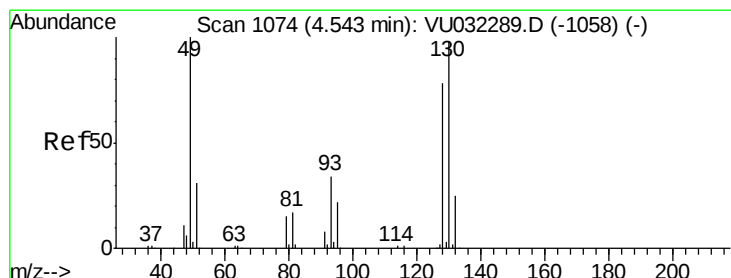
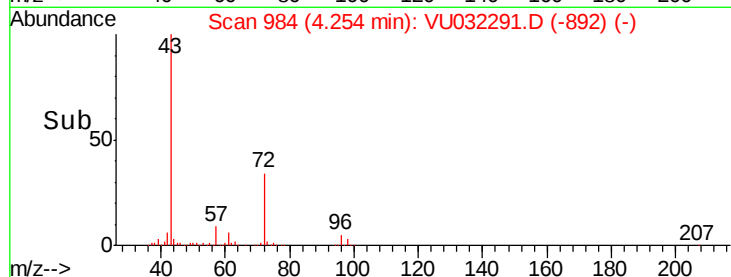
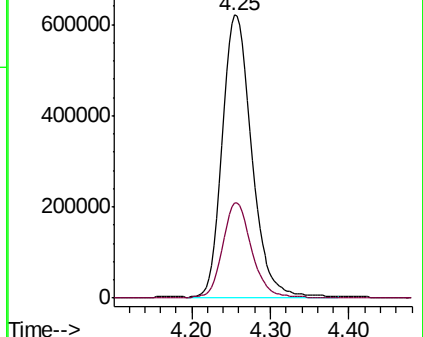
43 100

72 33.6 16.6 49.7



Abundance Ion 43.00 (42.70 to 43.70): VU032289.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU032289.D (-968) (-)



#23

Bromochloromethane

Concen: 208.195 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Tgt Ion: 128 Resp: 609015

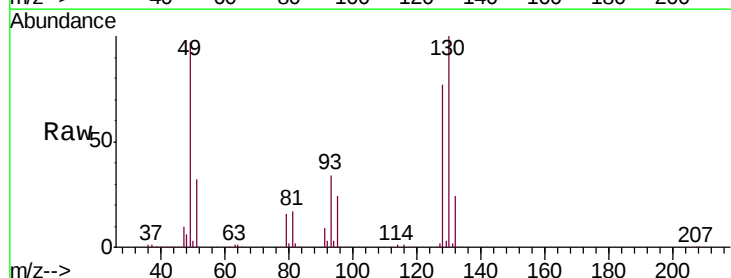
Ion Ratio Lower Upper

128 100

49 126.5 89.5 166.1

130 129.8 87.4 162.2

51 41.2 31.6 47.4

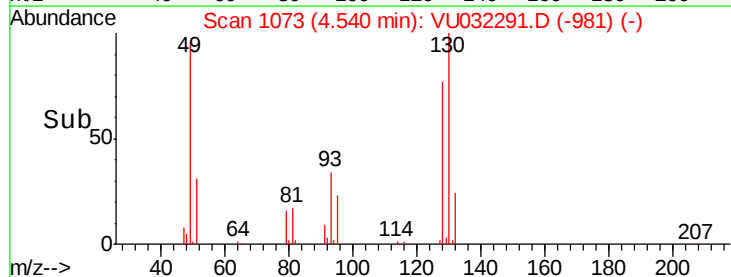
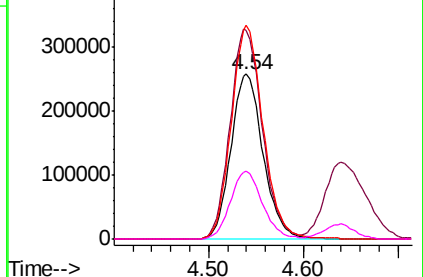


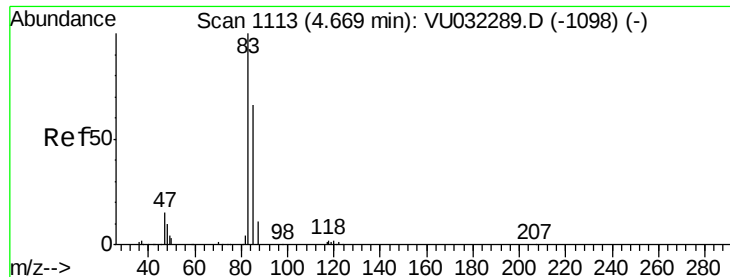
Abundance Ion 128.00 (127.70 to 128.70): VU032289.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU032289.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU032289.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU032289.D (-1058) (-)





#25

Chloroform

Concen: 199.445 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

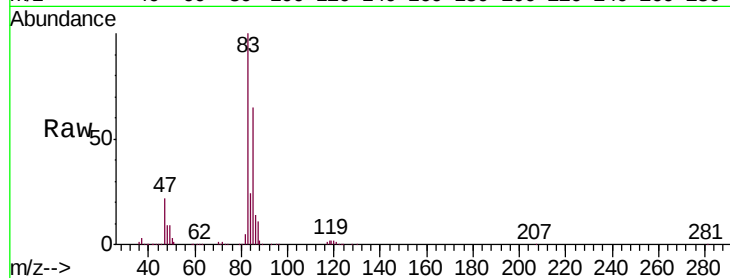
VSTD20056

Tgt Ion: 83 Resp: 1787874

Ion Ratio Lower Upper

83 100

85 65.2 46.8 87.0



Abundance Ion 83.00 (82.70 to 83.70): VU032289.D (-1098) (-)

Ion 85.00 (84.70 to 85.70): VU032289.D (-1098) (-)

4.67

800000

600000

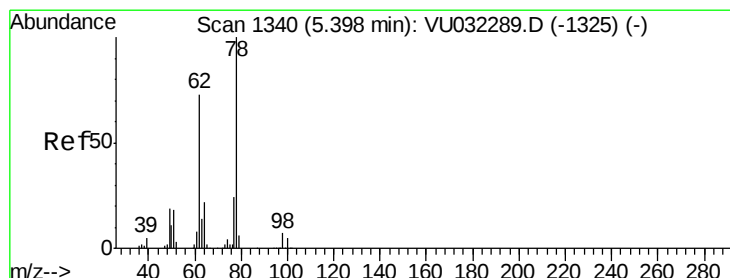
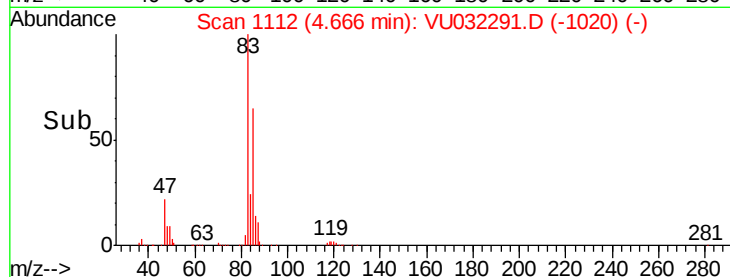
400000

200000

0

4.60 4.70 4.80

Time-->



#27

1,2-Dichloroethane

Concen: 210.023 ug/L

RT: 5.40 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VU032291.D

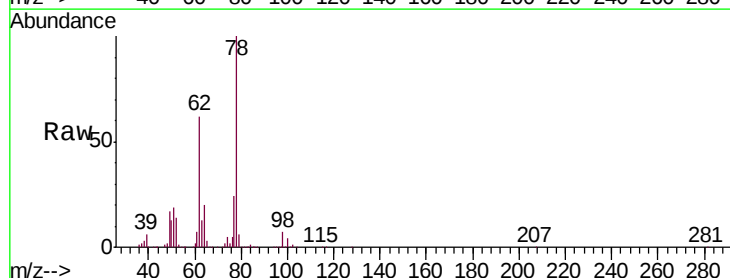
Acq: 24 May 2019 05:31

Tgt Ion: 62 Resp: 1402761

Ion Ratio Lower Upper

62 100

98 10.6 7.9 11.9



Abundance Ion 62.00 (61.70 to 62.70): VU032289.D (-1325) (-)

Ion 98.00 (97.70 to 98.70): VU032289.D (-1325) (-)

5.40

800000

600000

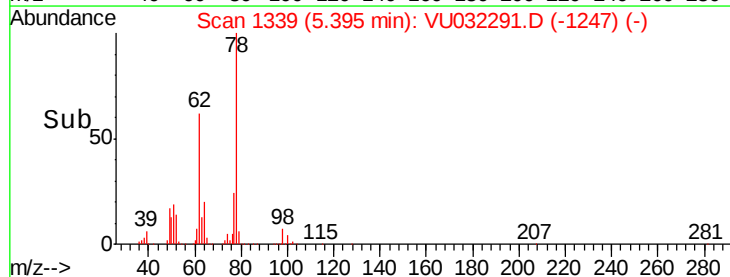
400000

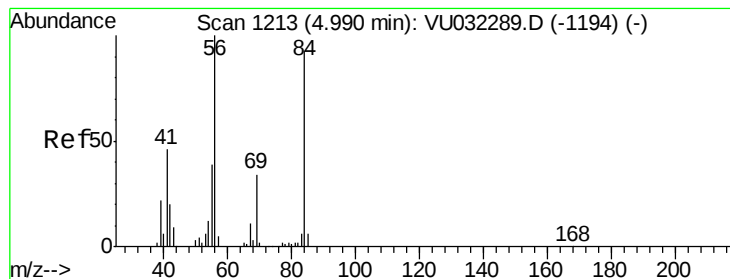
200000

0

5.30 5.40 5.50

Time-->





#29

Cyclohexane

Concen: 174.200 ug/L

RT: 4.99 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20056

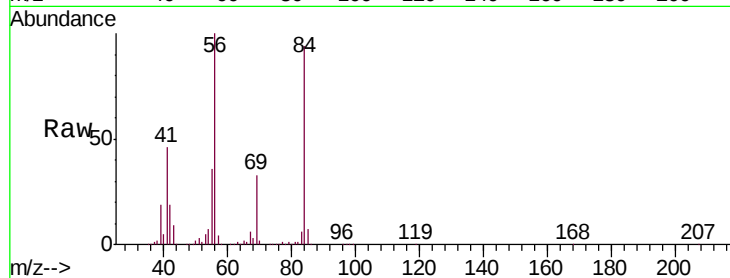
Tgt Ion: 56 Resp: 1123557

Ion Ratio Lower Upper

56 100

69 32.5 26.6 40.0

84 94.1 73.8 110.8

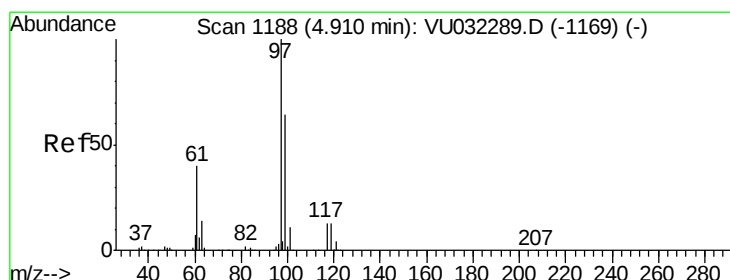
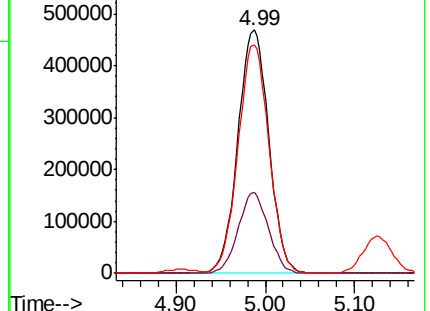
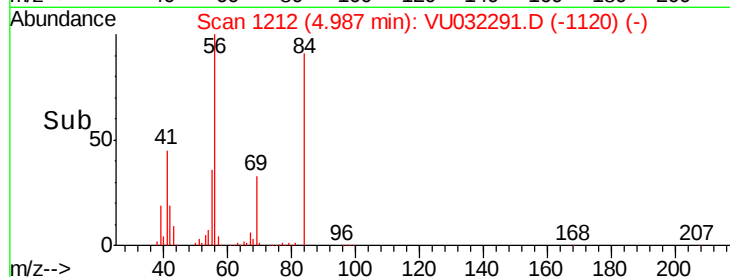


Abundance Ion 56.00 (55.70 to 56.70): VU032289.D (-1194) (-)

Ion 69.00 (68.70 to 69.70): VU032289.D (-1194) (-)

Ion 84.00 (83.70 to 84.70): VU032289.D (-1194) (-)

Time-->



#30

1,1,1-Trichloroethane

Concen: 174.352 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

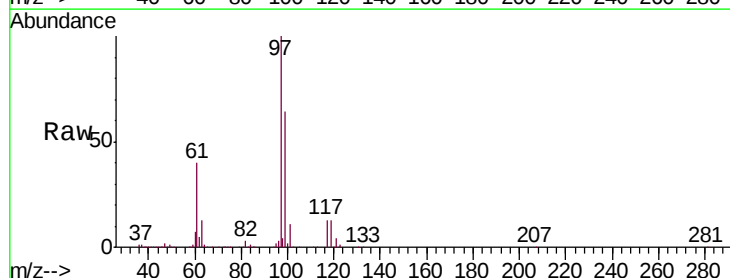
Tgt Ion: 97 Resp: 1318608

Ion Ratio Lower Upper

97 100

99 64.4 51.2 76.8

61 40.3 32.2 48.4

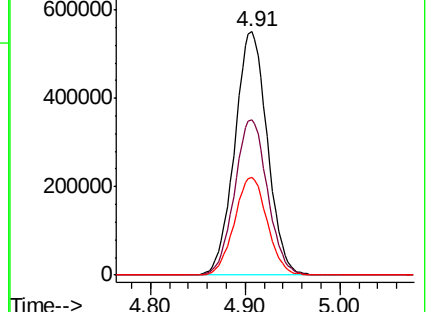
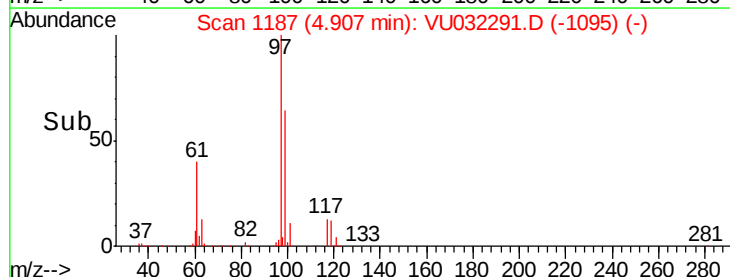


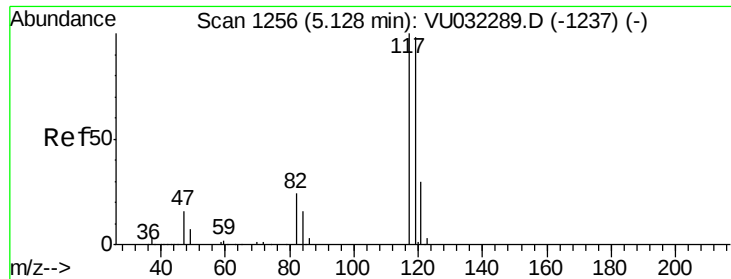
Abundance Ion 97.00 (96.70 to 97.70): VU032289.D (-1169) (-)

Ion 99.00 (98.70 to 99.70): VU032289.D (-1169) (-)

Ion 61.05 (60.75 to 61.75): VU032289.D (-1169) (-)

Time-->





#31

Carbon tetrachloride

Concen: 164.616 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

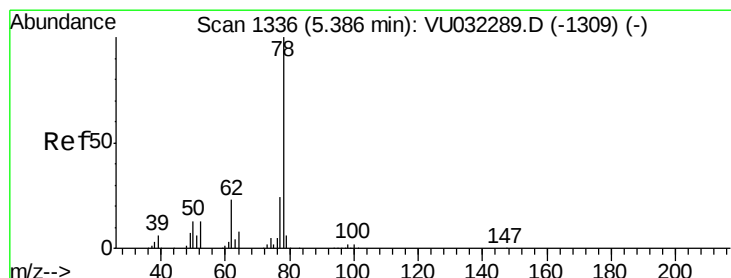
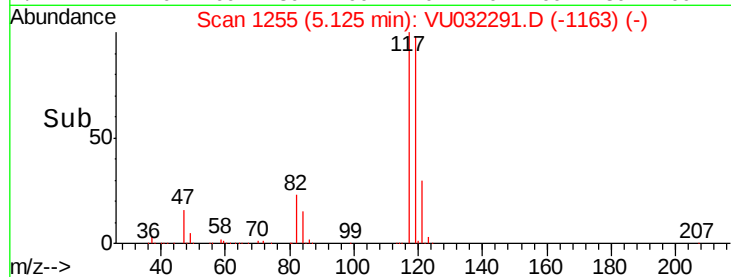
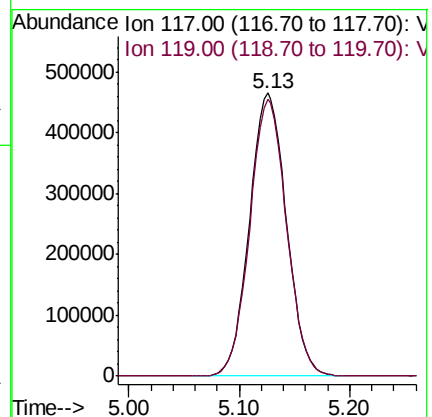
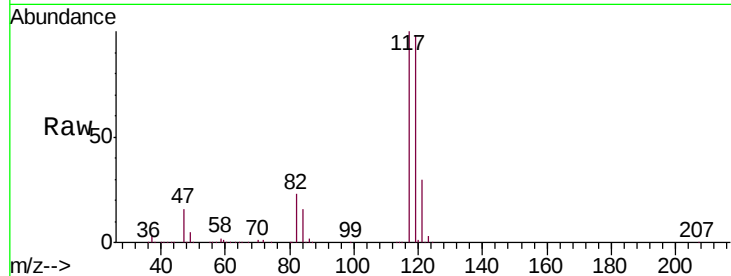
VSTD20056

Tgt Ion:117 Resp: 1081345

Ion Ratio Lower Upper

117 100

119 97.3 77.4 116.0



#33

Benzene

Concen: 191.697 ug/L

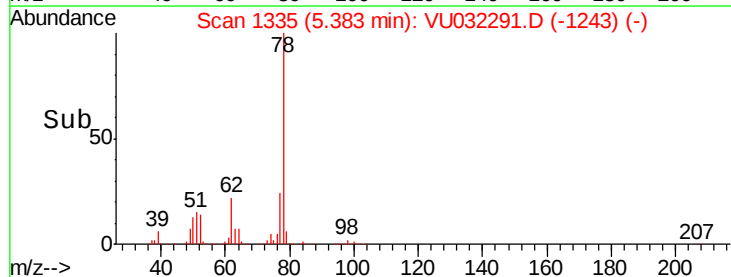
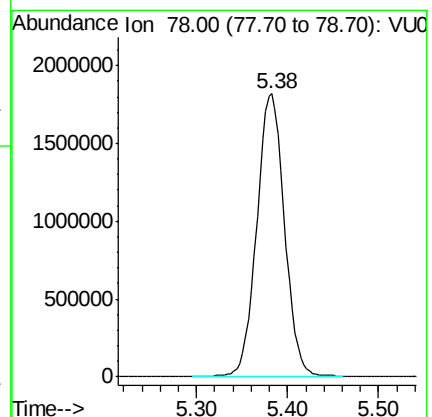
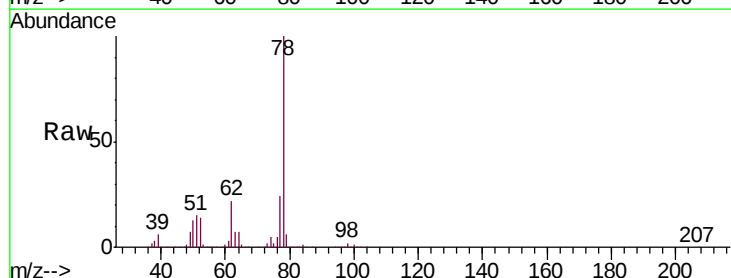
RT: 5.38 min Scan# 1335

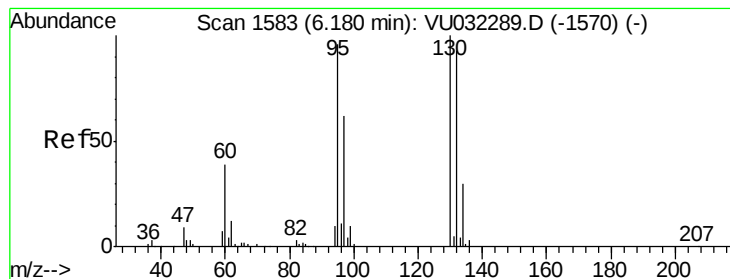
Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Tgt Ion: 78 Resp: 3857794





#34

Trichloroethene

Concen: 178.642 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20056

Tgt Ion: 95 Resp: 951166

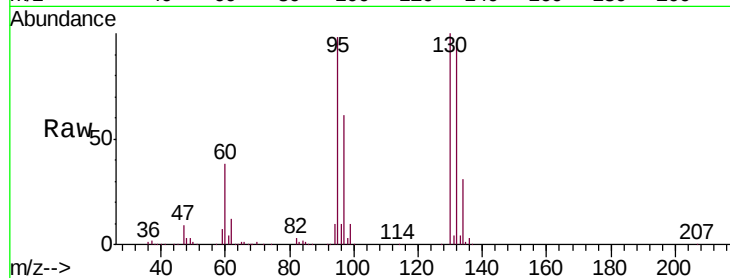
Ion Ratio Lower Upper

95 100

97 62.8 45.3 84.1

132 97.8 68.0 126.2

130 102.4 73.2 136.0

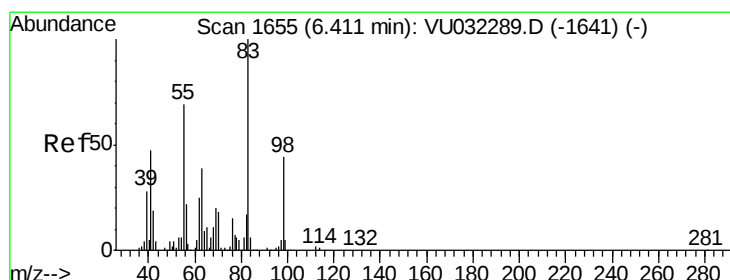
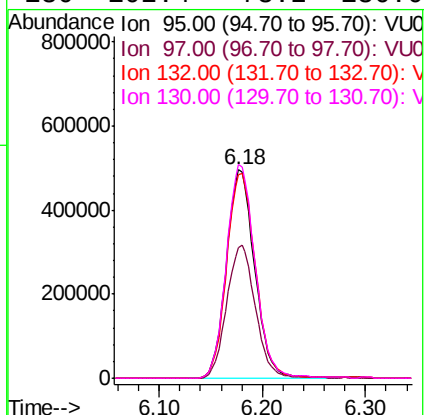
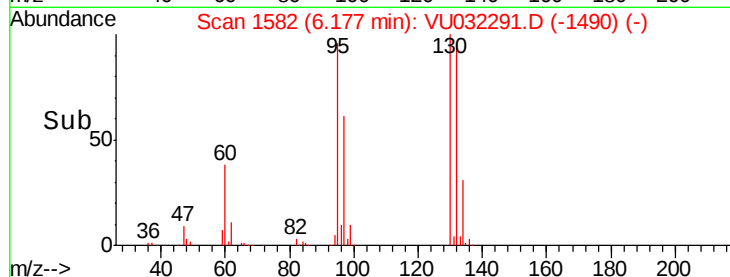


Abundance Ion 95.00 (94.70 to 95.70): VU032289.D (-1570) (-)

Ion 97.00 (96.70 to 97.70): VU032289.D (-1570) (-)

Ion 132.00 (131.70 to 132.70): VU032289.D (-1570) (-)

Ion 130.00 (129.70 to 130.70): VU032289.D (-1570) (-)



#35

Methylcyclohexane

Concen: 160.071 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

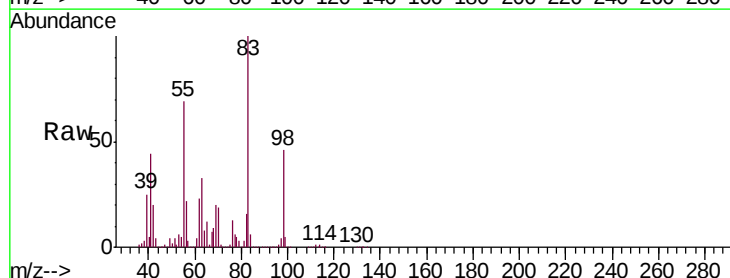
Tgt Ion: 83 Resp: 1239898

Ion Ratio Lower Upper

83 100

55 69.3 56.1 84.1

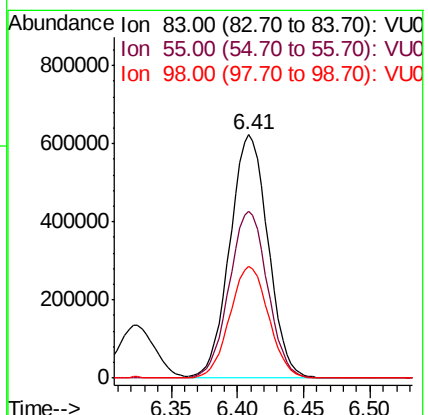
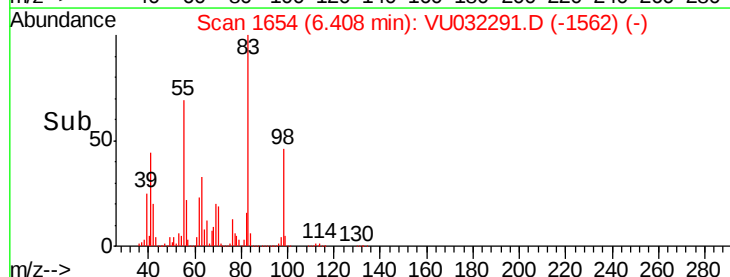
98 46.7 36.8 55.2

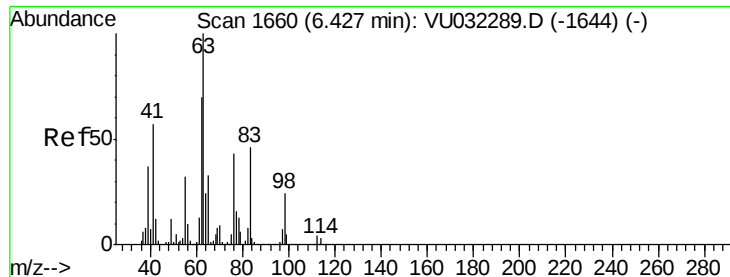


Abundance Ion 83.00 (82.70 to 83.70): VU032289.D (-1641) (-)

Ion 55.00 (54.70 to 55.70): VU032289.D (-1641) (-)

Ion 98.00 (97.70 to 98.70): VU032289.D (-1641) (-)

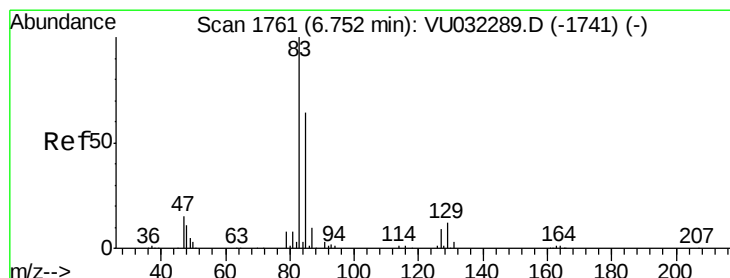
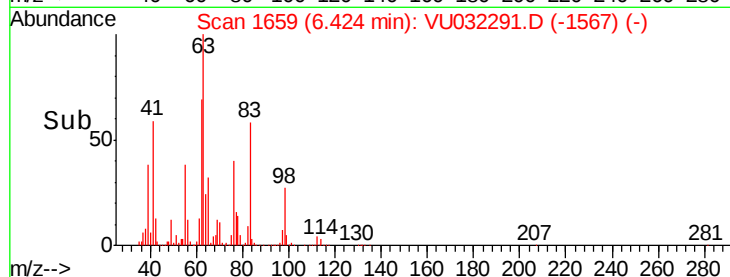
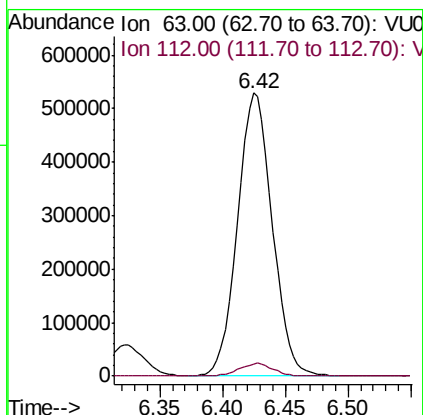
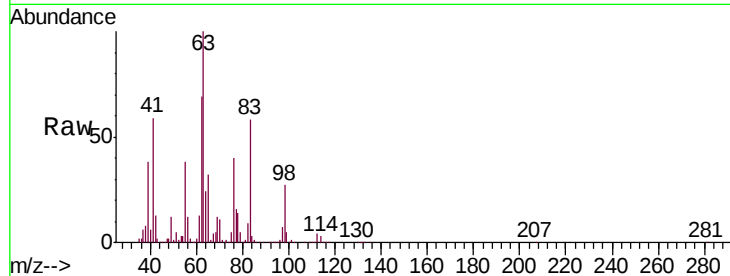




#37
 1,2-Dichloropropane
 Concen: 203.081 ug/L
 RT: 6.42 min Scan# 1659
 Delta R.T. -0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

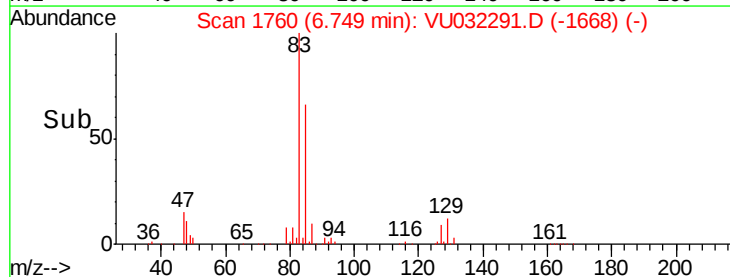
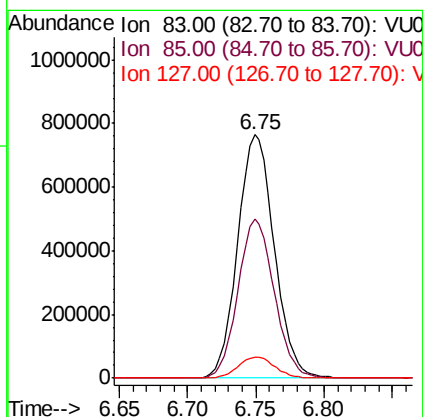
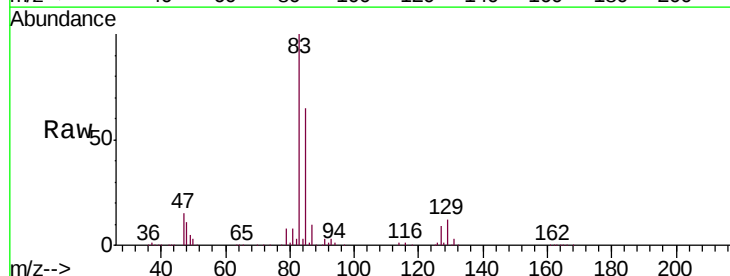
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20056

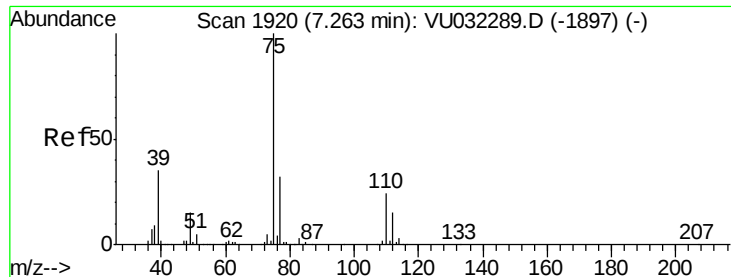
Tgt Ion: 63 Resp: 1012519
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.6 5.4



#38
 Bromodichloromethane
 Concen: 207.395 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. -0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

Tgt Ion: 83 Resp: 1421800
 Ion Ratio Lower Upper
 83 100
 85 65.1 44.7 82.9
 127 8.7 7.4 11.0



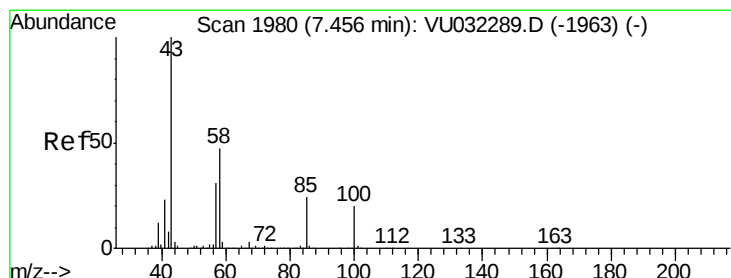
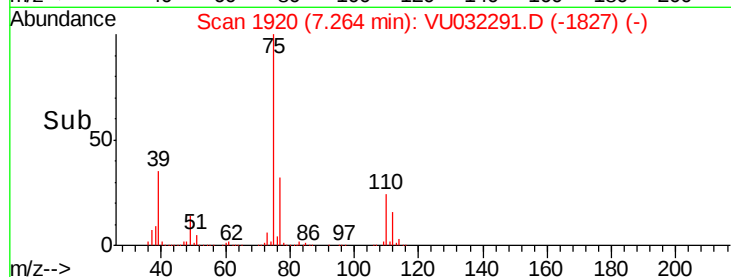
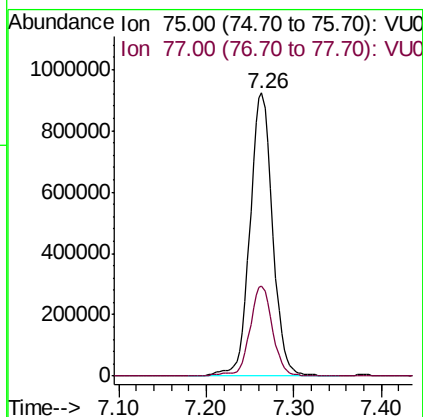
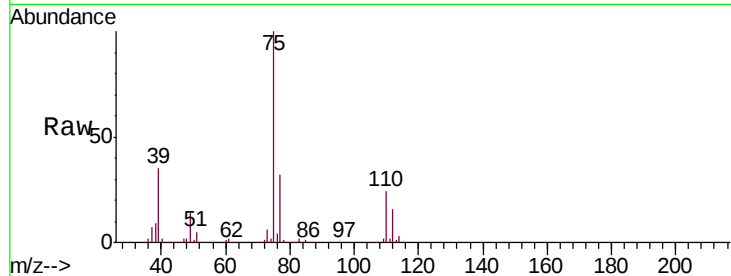


#39

cis-1,3-Dichloropropene
 Concen: 215.025 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20056

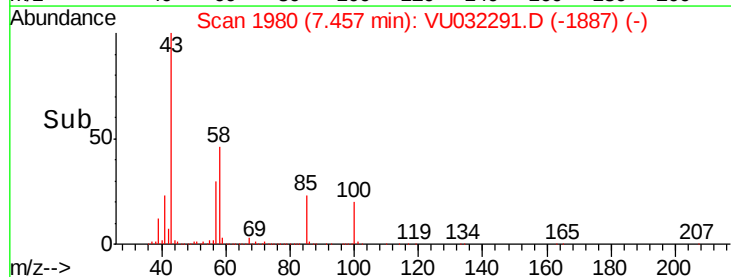
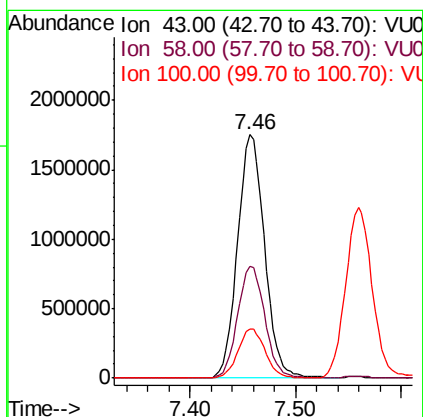
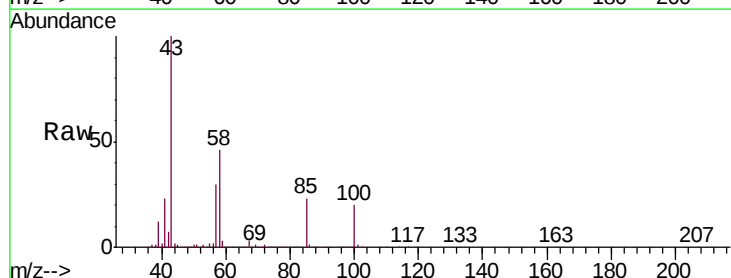
Tgt Ion: 75 Resp: 1657430
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.1 41.1

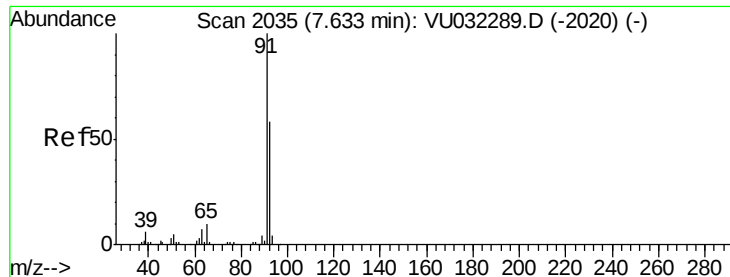


#40

4-Methyl-2-pentanone
 Concen: 528.729 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

Tgt Ion: 43 Resp: 3123080
 Ion Ratio Lower Upper
 43 100
 58 46.2 37.1 55.7
 100 20.2 16.3 24.5





#42

Toluene

Concen: 191.969 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

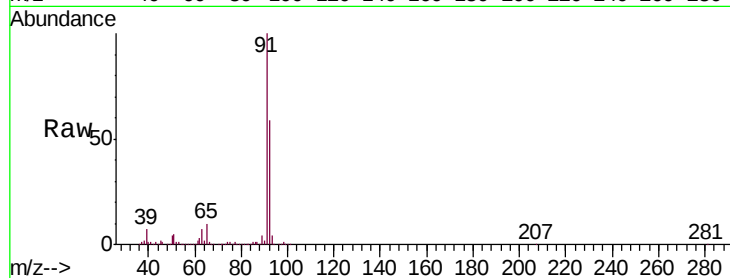
VSTD20056

Tgt Ion: 91 Resp: 4226875

Ion Ratio Lower Upper

91 100

92 58.8 40.3 74.9



Abundance Ion 91.00 (90.70 to 91.70): VU032289.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU032289.D (-2020) (-)

7.63

2500000

2000000

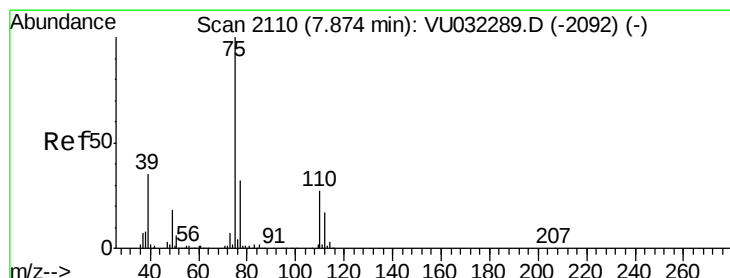
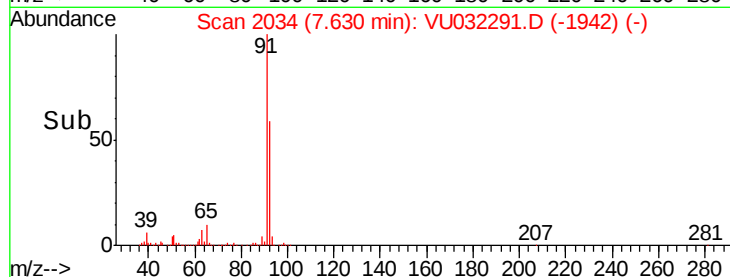
1500000

1000000

500000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 218.248 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032291.D

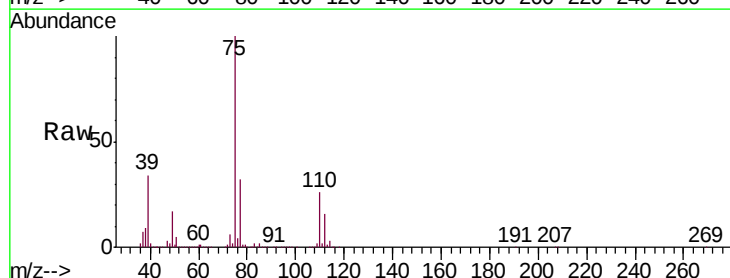
Acq: 24 May 2019 05:31

Tgt Ion: 75 Resp: 1499978

Ion Ratio Lower Upper

75 100

77 31.7 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU032289.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU032289.D (-2092) (-)

7.87

1000000

800000

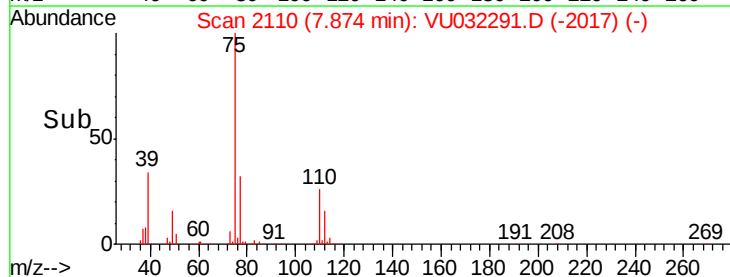
600000

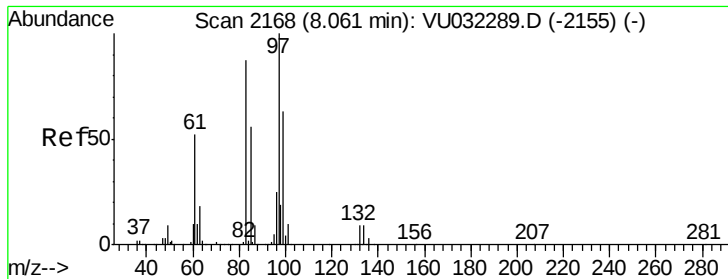
400000

200000

0

Time-->

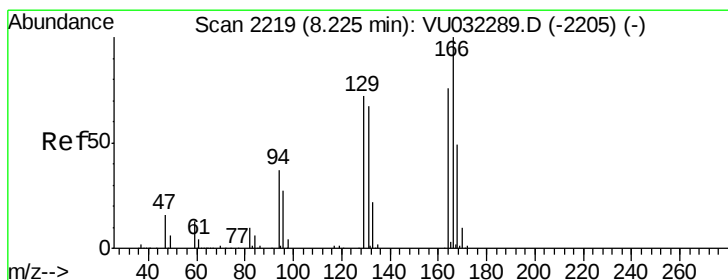
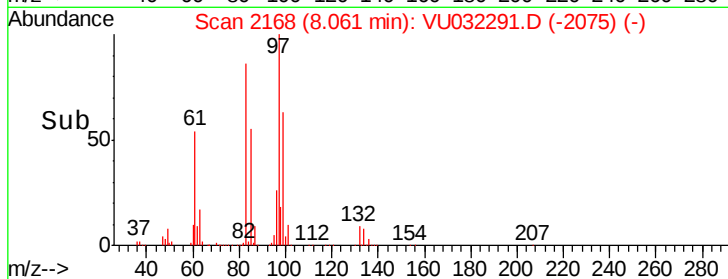
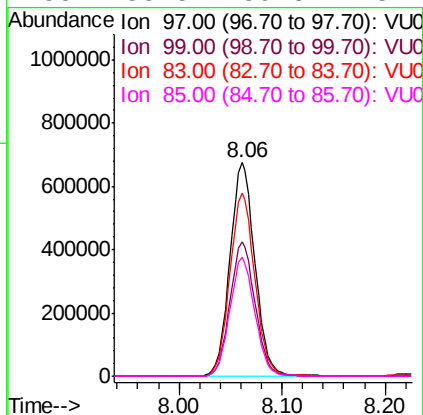
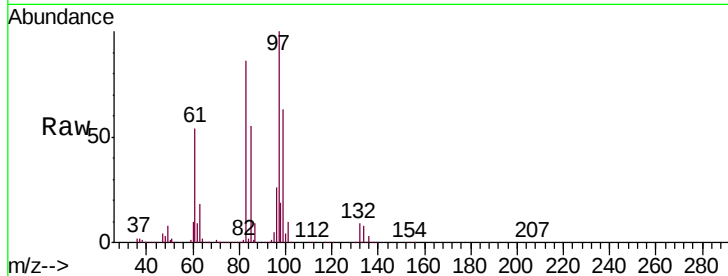




#45
 1,1,2-Trichloroethane
 Concen: 210.442 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

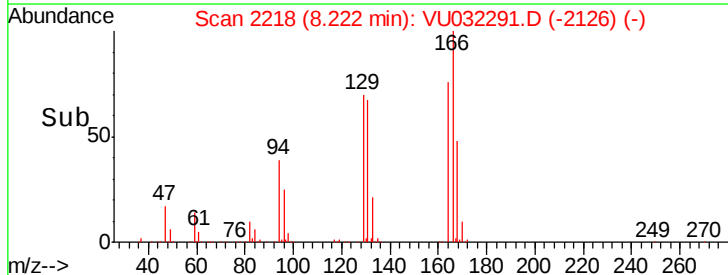
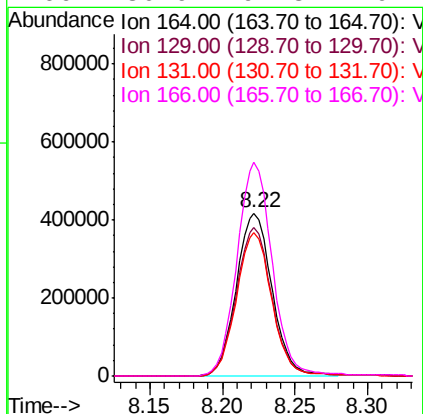
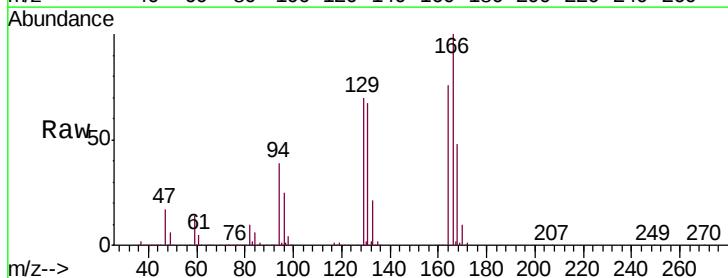
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20056

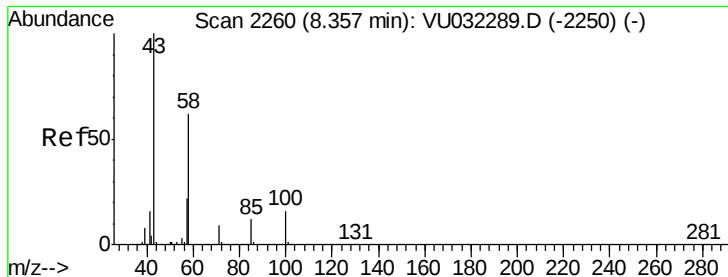
Tgt Ion:	97	Resp:	1139956
Ion	Ratio	Lower	Upper
97	100		
99	63.2	43.9	81.5
83	85.7	61.2	113.6
85	55.5	39.3	73.1



#46
 Tetrachloroethene
 Concen: 166.854 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

Tgt Ion:	164	Resp:	716620
Ion	Ratio	Lower	Upper
164	100		
129	91.3	66.2	123.0
131	88.0	61.9	114.9
166	130.9	91.8	170.4



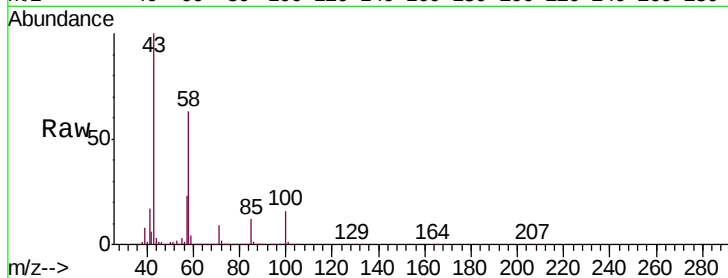


#48
2-Hexanone
Concen: 509.136 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU032291.D
Acq: 24 May 2019 05:31

Instrument :
MSVOA_U
ClientSampleId :
VSTD20056

Tgt Ion: 43 Resp: 2558127

Ion	Ratio	Lower	Upper
43	100		
58	63.9	51.4	77.0
57	22.9	17.8	26.8
100	15.6	12.8	19.2

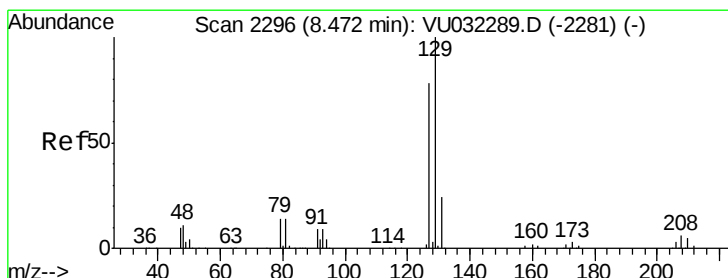
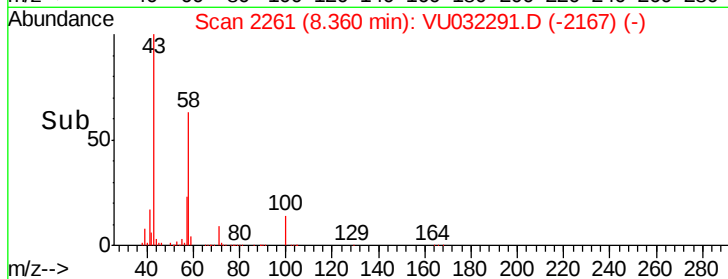
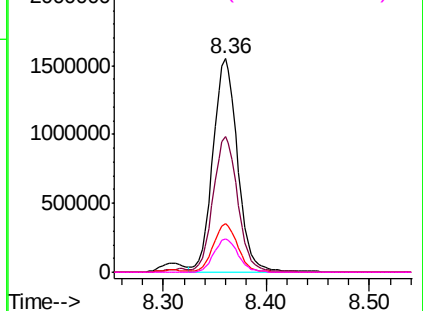


Abundance Ion 43.00 (42.70 to 43.70): VU032289.D (-2250) (-)

Ion 58.00 (57.70 to 58.70): VU032289.D (-2250) (-)

Ion 57.00 (56.70 to 57.70): VU032289.D (-2250) (-)

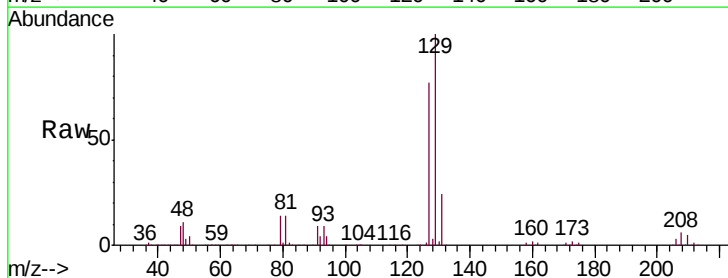
Ion 100.00 (99.70 to 100.70): VU032289.D (-2250) (-)



#49
Dibromochloromethane
Concen: 222.342 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032291.D
Acq: 24 May 2019 05:31

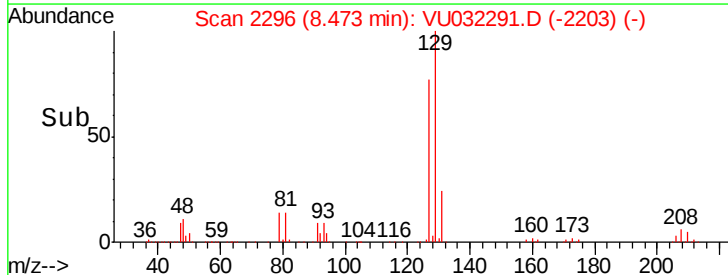
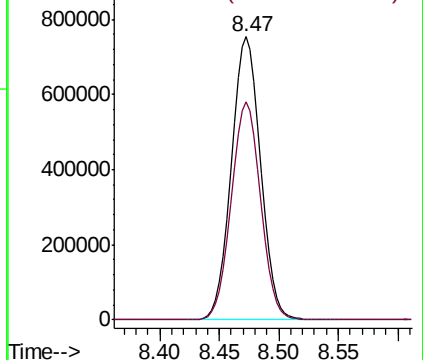
Tgt Ion: 129 Resp: 1283766

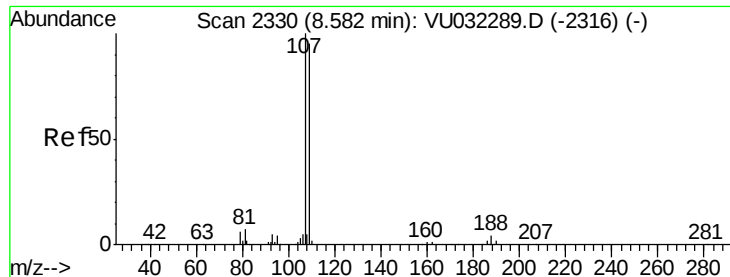
Ion	Ratio	Lower	Upper
129	100		
127	77.1	54.5	101.3



Abundance Ion 129.00 (128.70 to 129.70): VU032289.D (-2281) (-)

Ion 127.00 (126.70 to 127.70): VU032289.D (-2281) (-)

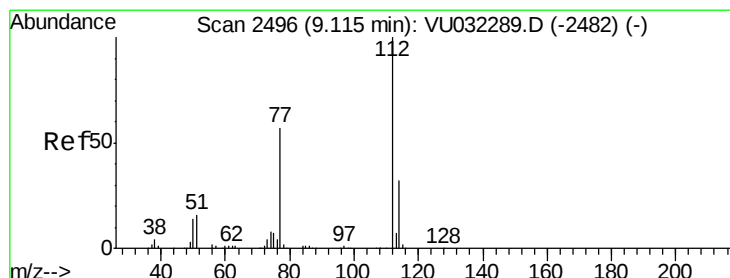
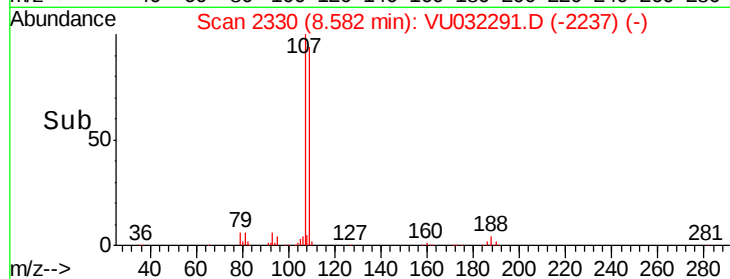
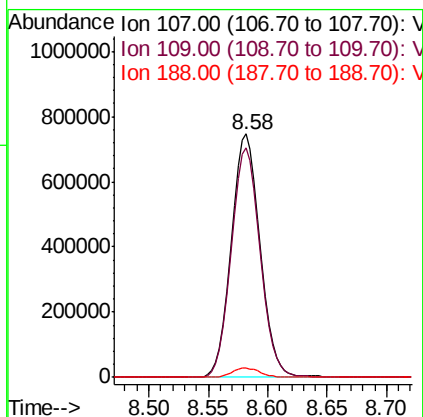
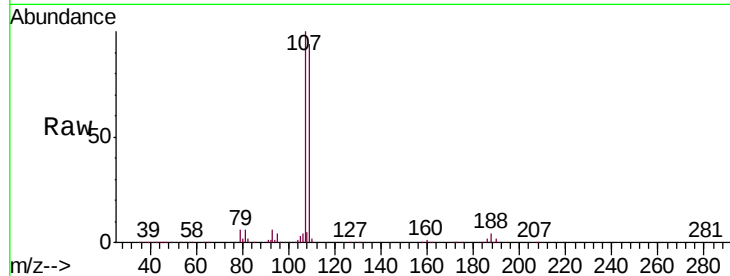




#50
1,2-Dibromoethane
Concen: 219.304 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU032291.D
Acq: 24 May 2019 05:31

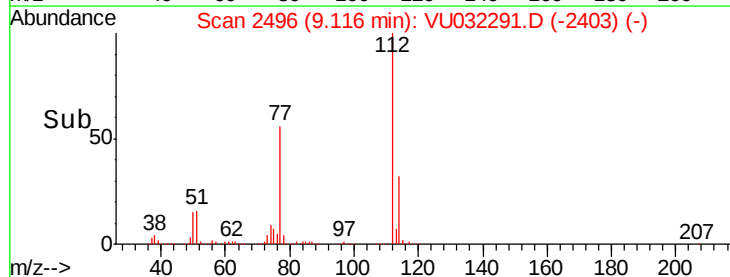
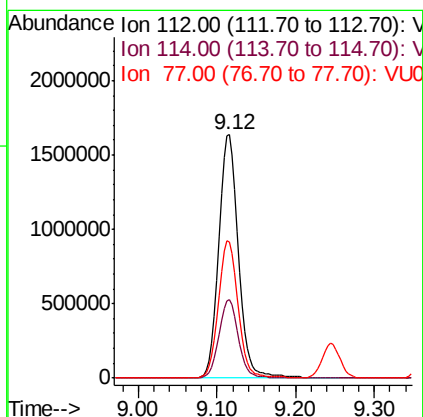
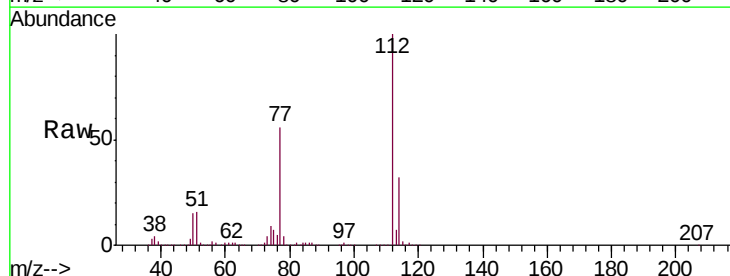
Instrument :
MSVOA_U
ClientSampleId :
VSTD20056

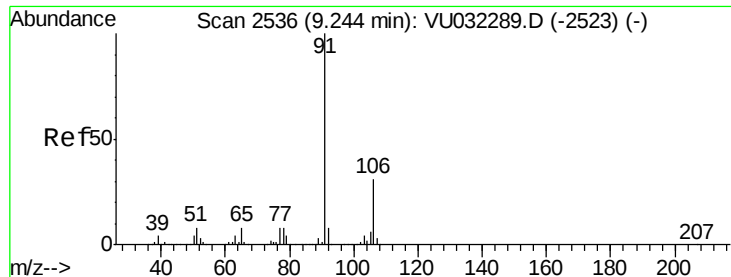
Tgt Ion:107 Resp: 1254266
Ion Ratio Lower Upper
107 100
109 94.1 66.6 123.8
188 3.7 3.2 4.8



#51
Chlorobenzene
Concen: 189.446 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU032291.D
Acq: 24 May 2019 05:31

Tgt Ion:112 Resp: 2817027
Ion Ratio Lower Upper
112 100
114 32.3 22.5 41.7
77 56.1 45.8 68.6





#52

Ethylbenzene

Concen: 191.854 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

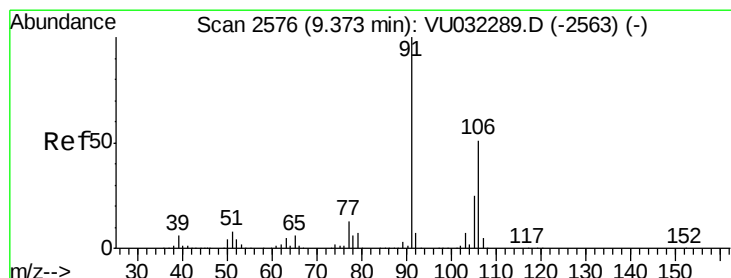
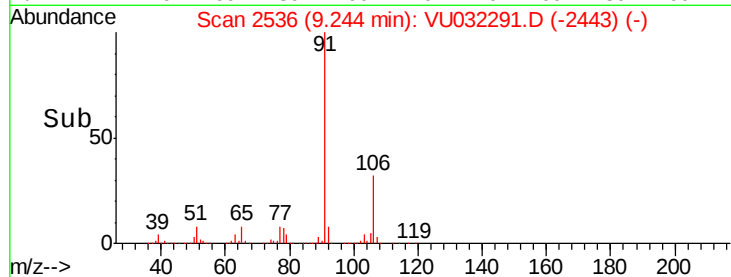
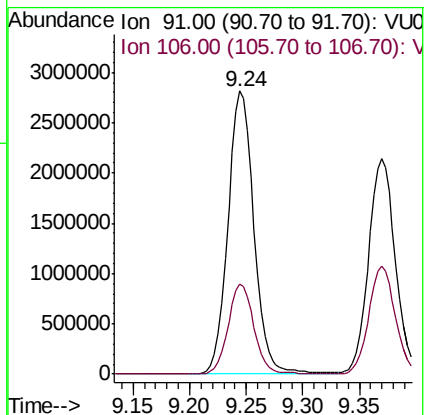
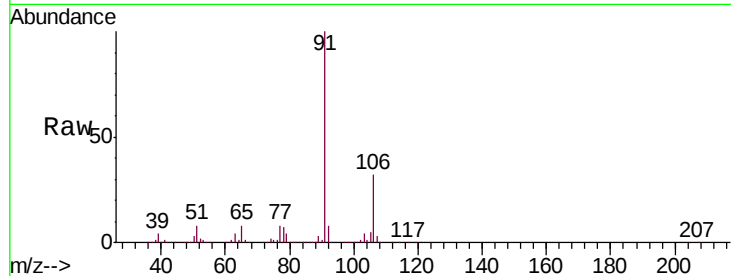
VSTD20056

Tgt Ion: 91 Resp: 4505795

Ion Ratio Lower Upper

91 100

106 31.8 22.0 41.0



#53

m,p-Xylene

Concen: 191.722 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032291.D

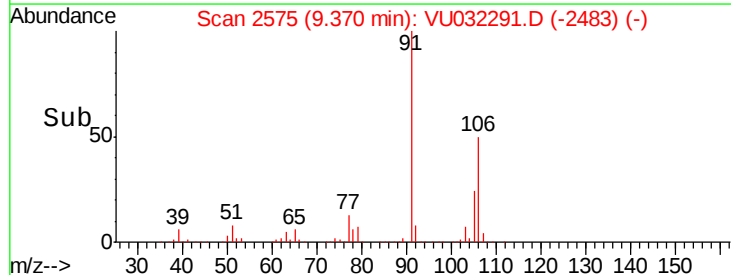
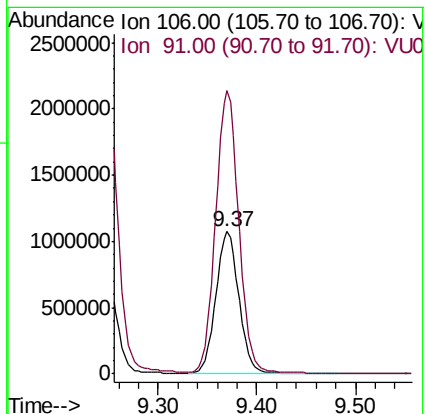
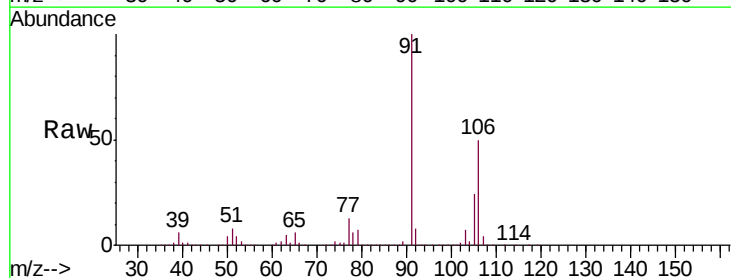
Acq: 24 May 2019 05:31

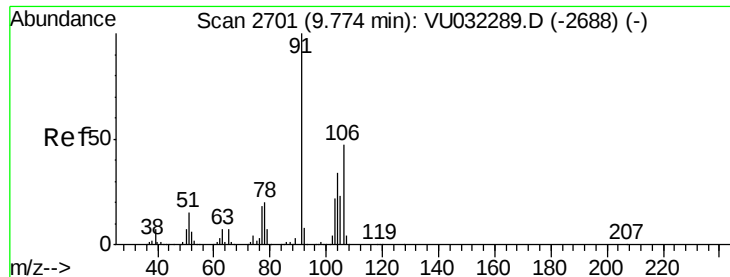
Tgt Ion: 106 Resp: 1766286

Ion Ratio Lower Upper

106 100

91 198.9 136.5 253.5





#54

o-xylene

Concen: 203.241 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

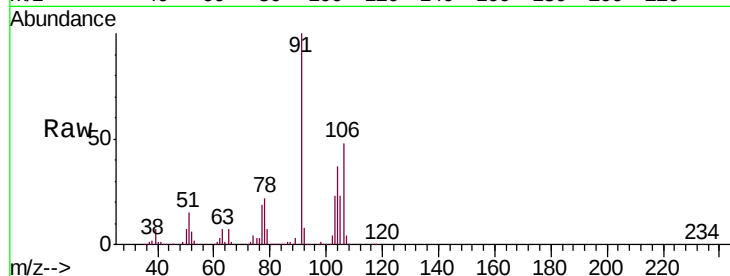
VSTD20056

Tgt Ion:106 Resp: 1859425

Ion Ratio Lower Upper

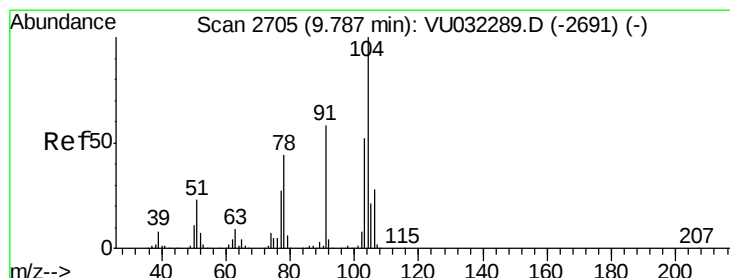
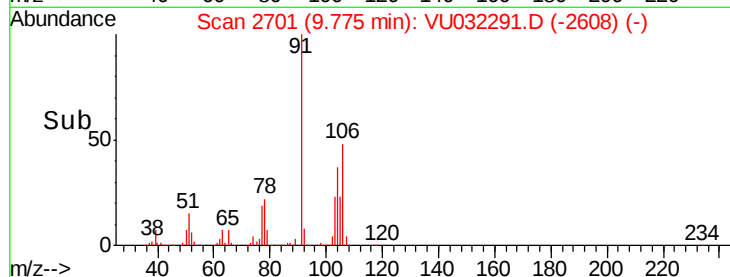
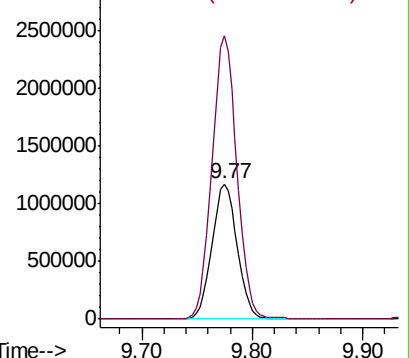
106 100

91 209.2 150.3 279.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 211.822 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032291.D

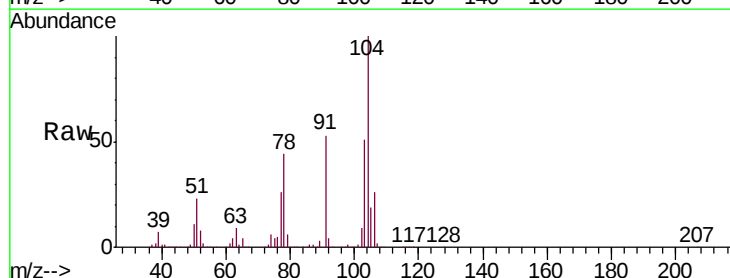
Acq: 24 May 2019 05:31

Tgt Ion:104 Resp: 3336751

Ion Ratio Lower Upper

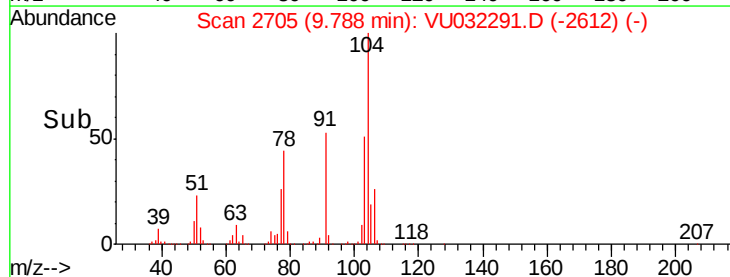
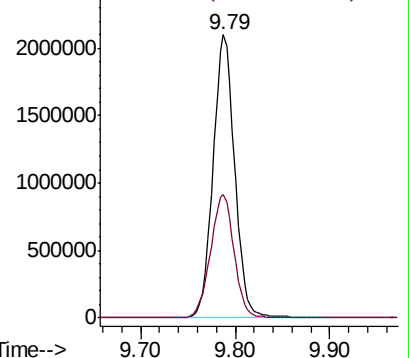
104 100

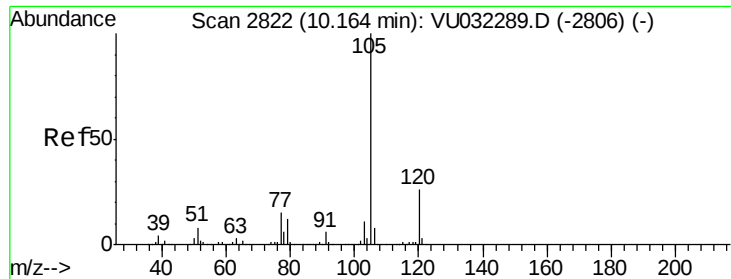
78 43.7 31.1 57.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 189.927 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20056

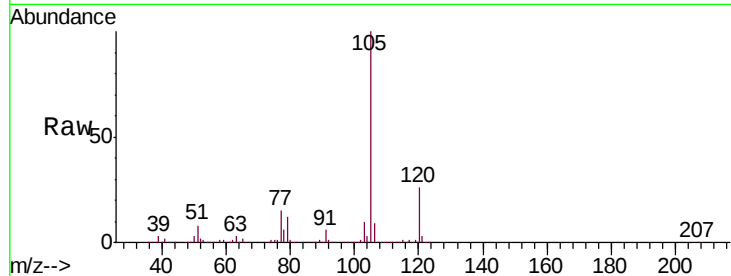
Tgt Ion:105 Resp: 4418071

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.4

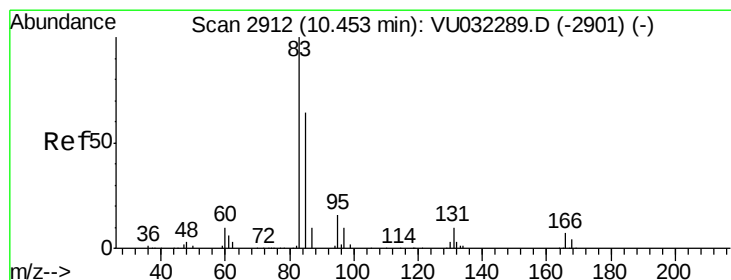
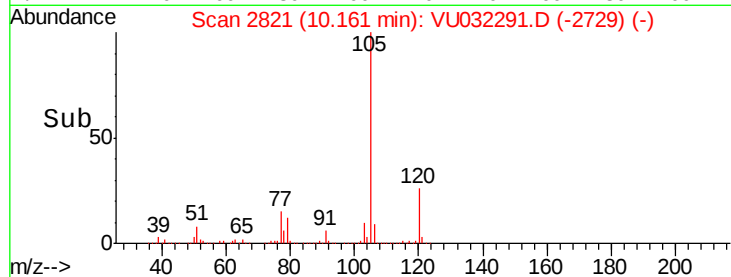
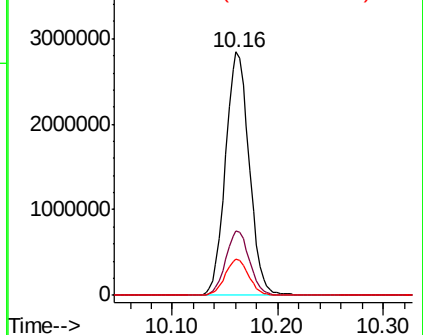
77 14.7 11.8 17.6



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: 220.795 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

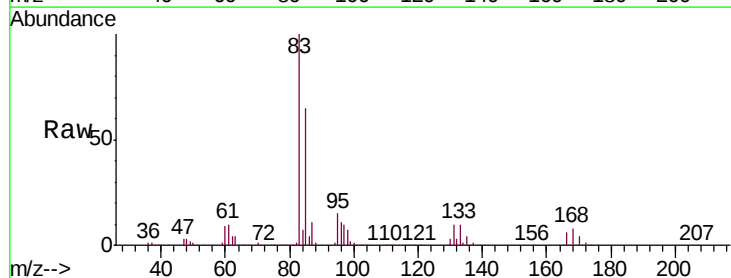
Tgt Ion: 83 Resp: 2012929

Ion Ratio Lower Upper

83 100

85 65.1 45.4 84.2

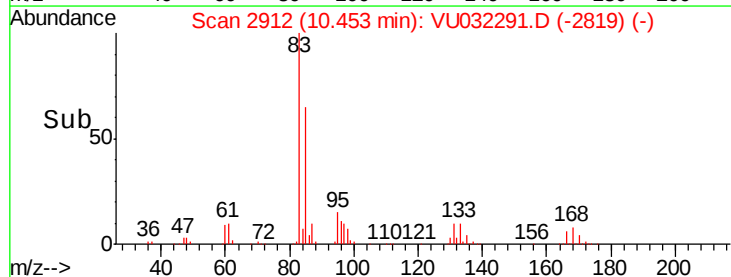
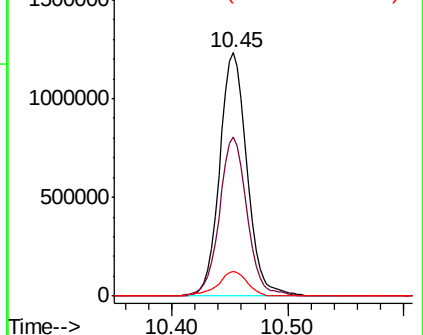
131 10.0 8.4 12.6

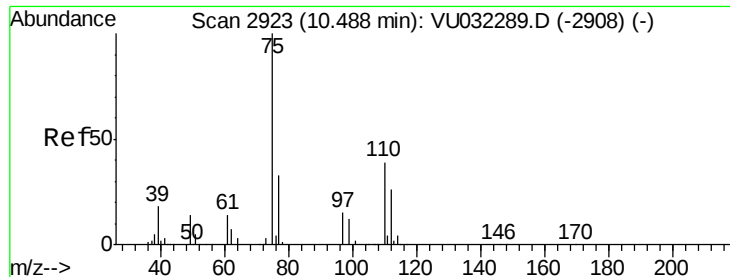


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 227.192 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

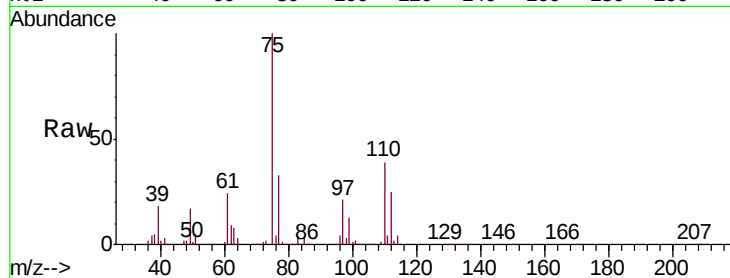
VSTD20056

Tgt Ion: 75 Resp: 1586102

Ion Ratio Lower Upper

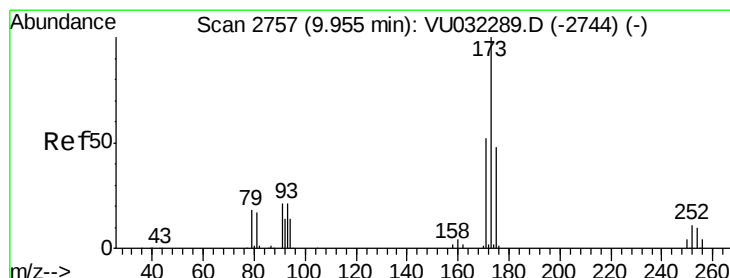
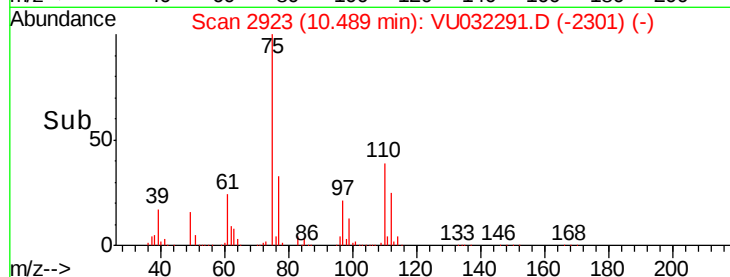
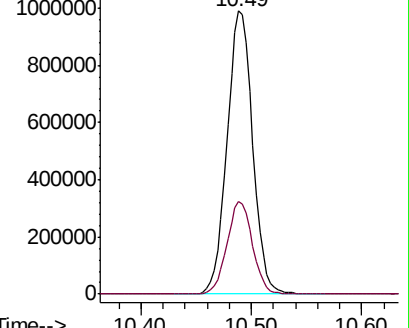
75 100

77 32.4 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU032289.D (-2908) (-)

Ion 77.00 (76.70 to 77.70): VU032289.D (-2908) (-)



#61

Bromoform

Concen: 225.194 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

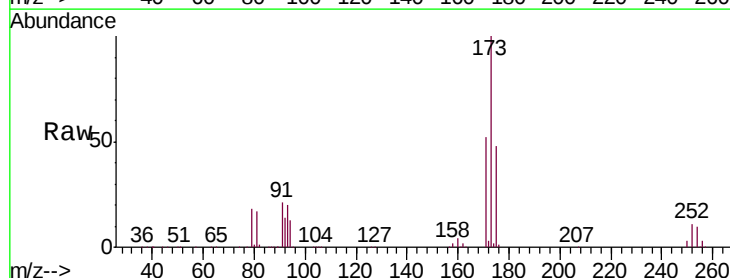
Tgt Ion: 173 Resp: 1065747

Ion Ratio Lower Upper

173 100

175 49.2 38.6 57.8

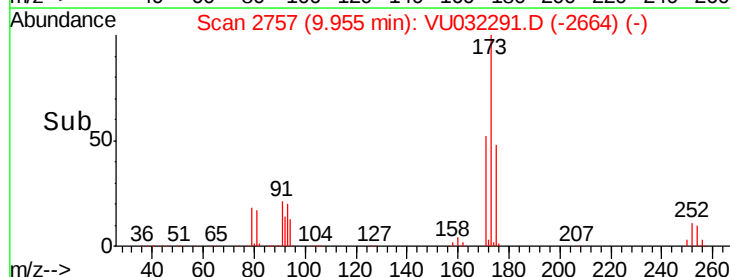
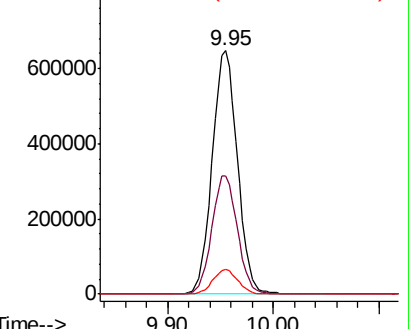
254 10.1 7.8 11.8

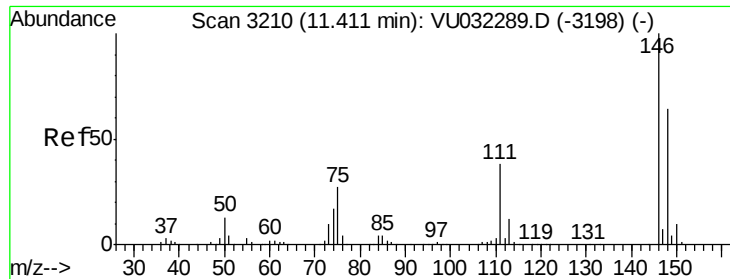


Abundance Ion 173.00 (172.70 to 173.70): VU032289.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU032289.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU032289.D (-2744) (-)





#62

1,3-Dichlorobenzene

Concen: 190.034 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20056

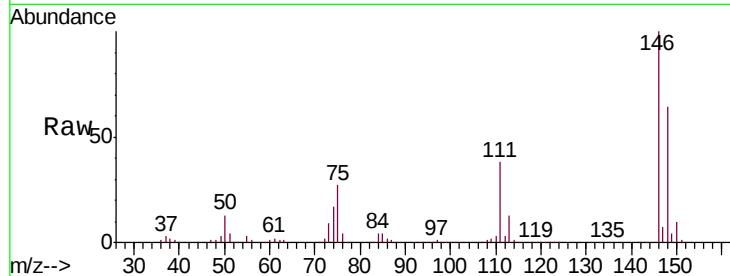
Tgt Ion:146 Resp: 2242594

Ion Ratio Lower Upper

146 100

111 38.4 26.4 49.0

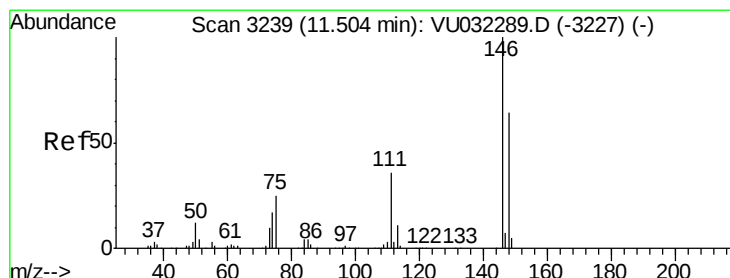
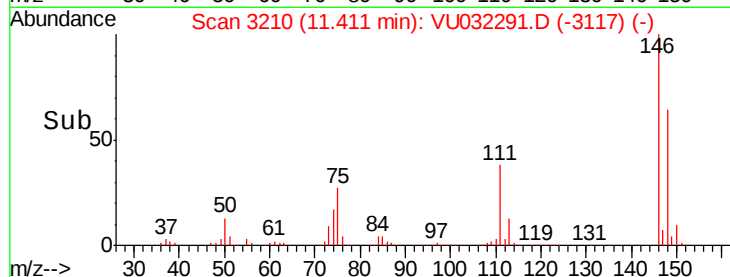
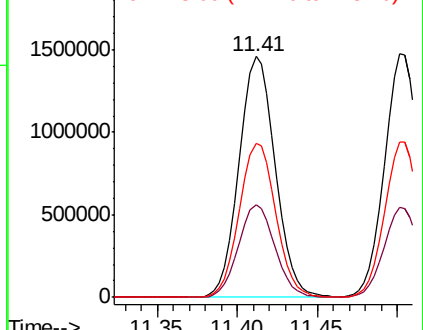
148 64.2 45.1 83.7



Abundance Ion 146.00 (145.70 to 146.70): V

2000000 Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 183.355 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

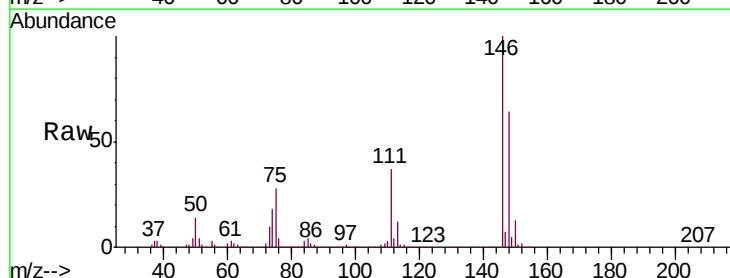
Tgt Ion:146 Resp: 2281156

Ion Ratio Lower Upper

146 100

111 37.0 25.3 47.1

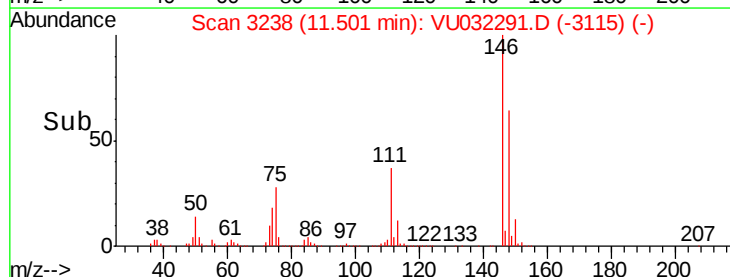
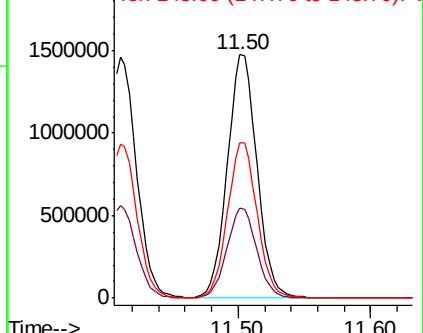
148 63.9 44.7 83.1

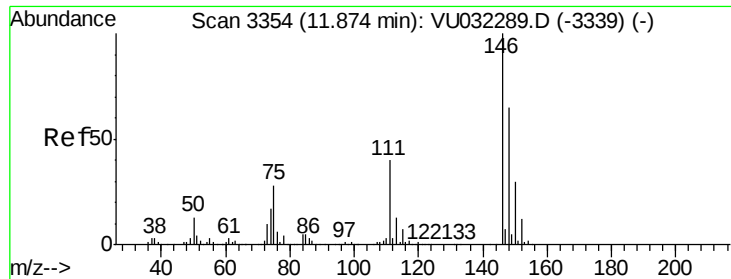


Abundance Ion 146.00 (145.70 to 146.70): V

2000000 Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

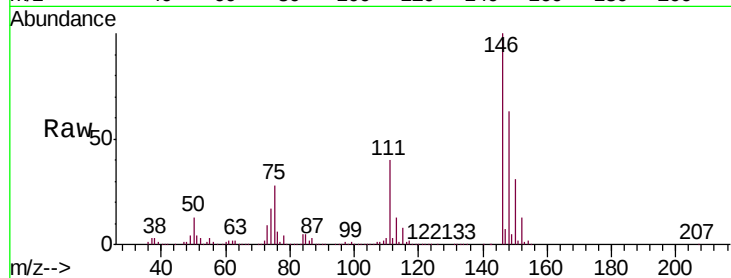




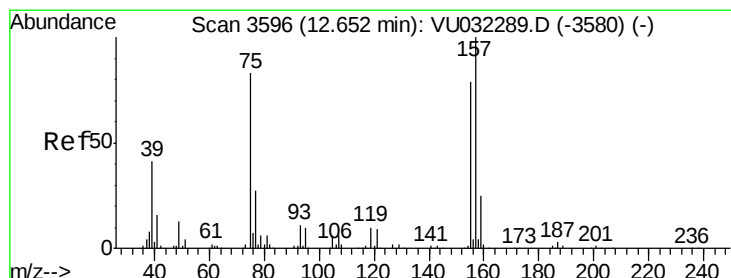
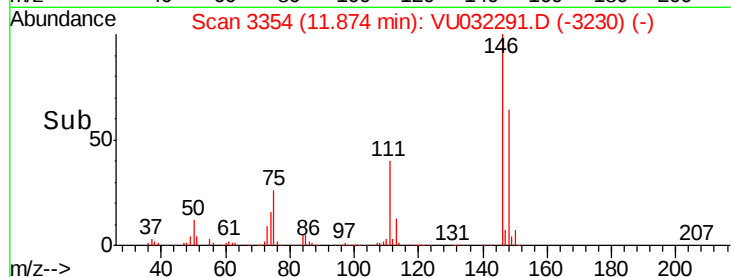
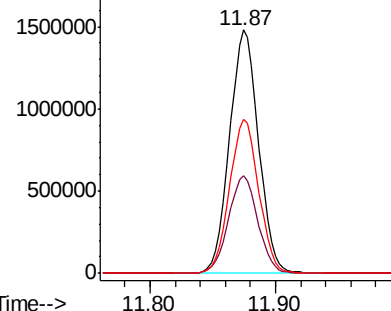
#65
 1,2-Dichlorobenzene
 Concen: 190.414 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20056

Tgt Ion:146 Resp: 2372240
 Ion Ratio Lower Upper
 146 100
 111 40.2 31.7 47.5
 148 63.5 52.2 78.2

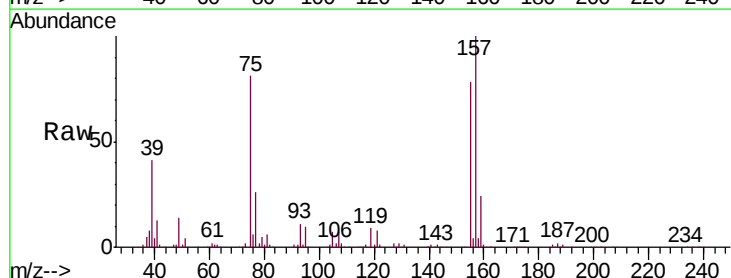


Abundance Ion 146.00 (145.70 to 146.70): V
 2000000 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

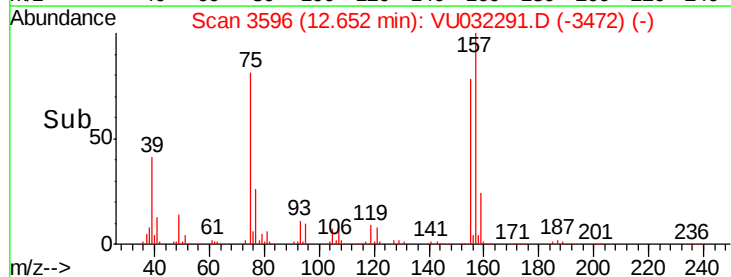
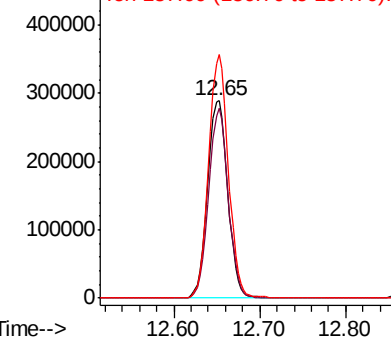


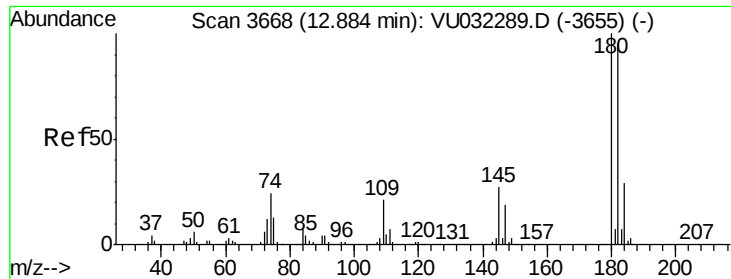
#66
 1,2-Dibromo-3-chloropropane
 Concen: 238.634 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

Tgt Ion: 75 Resp: 475544
 Ion Ratio Lower Upper
 75 100
 155 96.0 75.8 113.8
 157 123.3 96.4 144.6



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

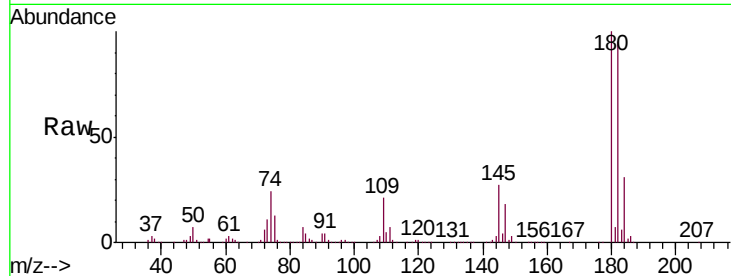




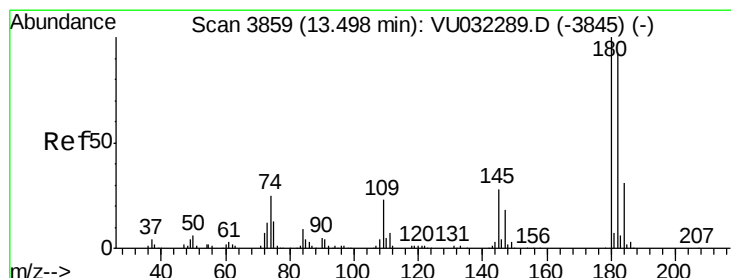
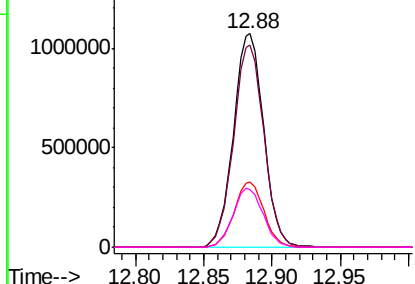
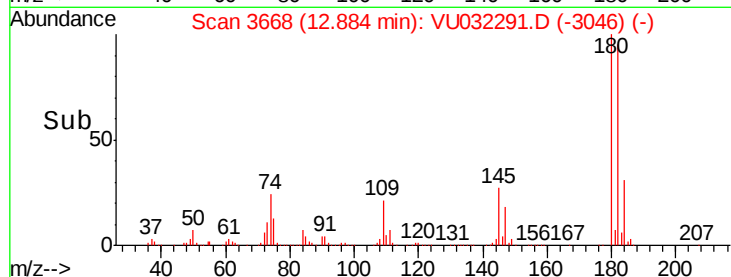
#67
 1,3,5-Trichlorobenzene
 Concen: 183.539 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20056

Tgt Ion:180 Resp: 1646552
 Ion Ratio Lower Upper
 180 100
 182 95.4 75.5 113.3
 184 30.3 24.2 36.4
 145 27.5 22.0 33.0

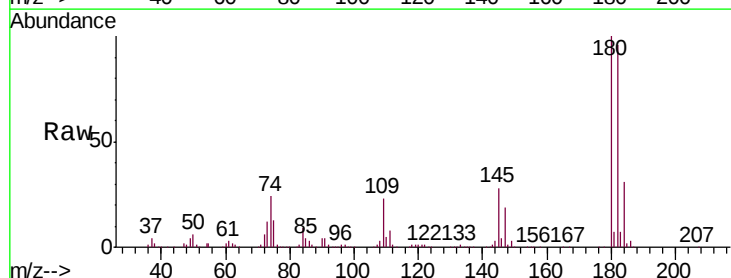


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

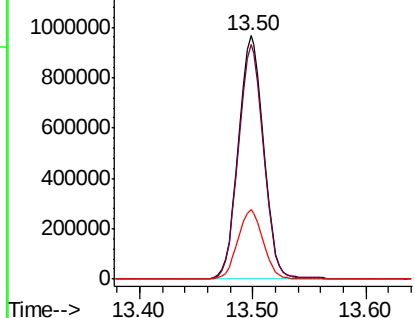
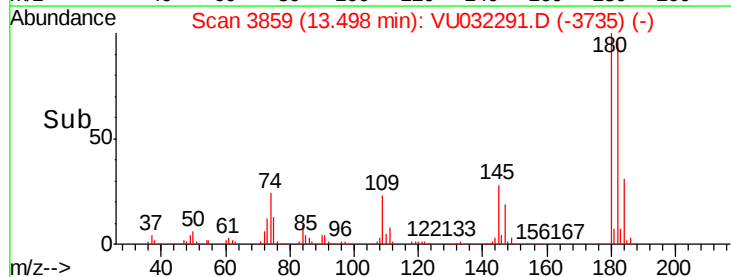


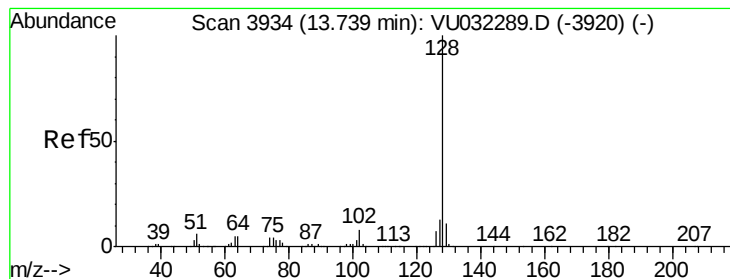
#68
 1,2,4-trichlorobenzene
 Concen: 215.018 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032291.D
 Acq: 24 May 2019 05:31

Tgt Ion:180 Resp: 1506891
 Ion Ratio Lower Upper
 180 100
 182 96.5 75.3 112.9
 145 28.6 23.0 34.6



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





#69

Naphthalene

Concen: 259.748 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20056

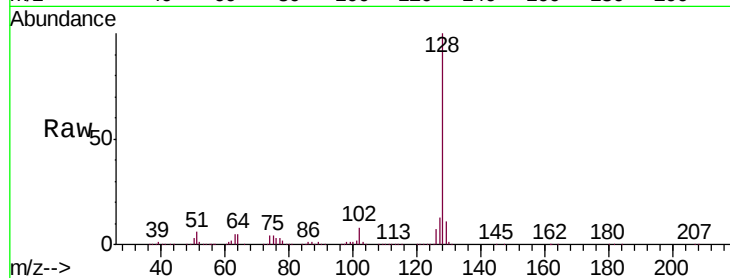
Tgt Ion:128 Resp: 5626187

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

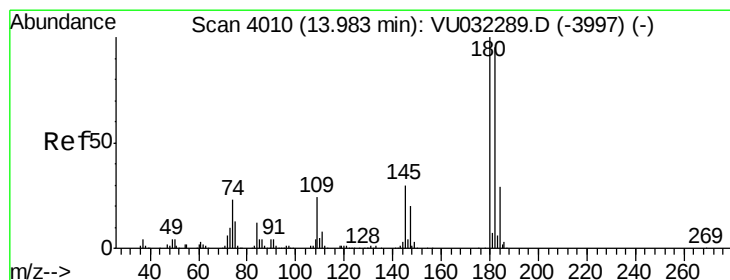
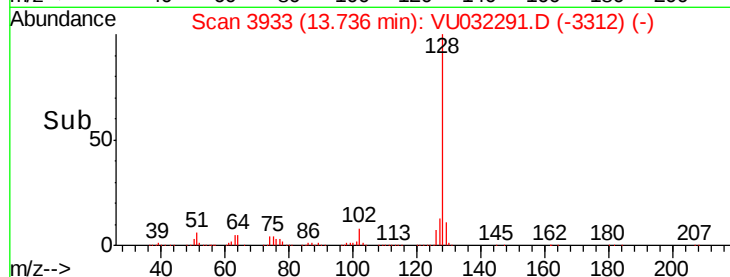
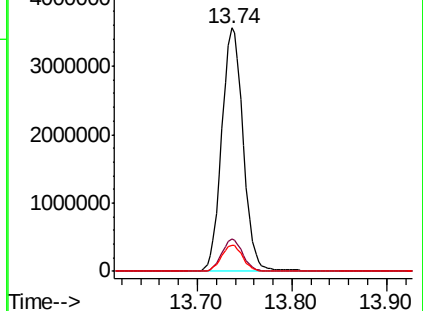
129 10.7 8.3 12.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 206.770 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032291.D

Acq: 24 May 2019 05:31

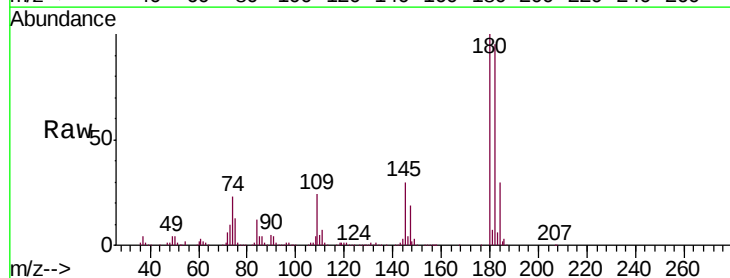
Tgt Ion:180 Resp: 1634286

Ion Ratio Lower Upper

180 100

182 95.3 77.2 115.8

145 30.2 23.9 35.9



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

