

Data File : VU032289.D
Acq On : 24 May 2019 04:44
Operator : JC/SP
Sample : VSTD05054
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

Quant Time: May 24 05:12:07 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	663411	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	677296	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	325979	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	174460	41.91	ug/L	0.00
7) Chloroethane-d5	1.67	69	167299	45.21	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	341953	42.78	ug/L	0.00
21) 2-Butanone-d5	4.17	46	346142	123.04	ug/L	0.00
24) Chloroform-d	4.64	84	442877	51.37	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	279893	54.40	ug/L	0.00
32) Benzene-d6	5.33	84	873175	49.71	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	275147	53.19	ug/L	0.00
41) Toluene-d8	7.56	98	810181	48.92	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	128018	50.78	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	236906	103.68	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	449798	53.39	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	332105	48.71	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	208358	40.081	ug/L	100
3) Chloromethane	1.32	50	245980	51.517	ug/L	100
5) Vinyl chloride	1.40	62	237095	45.475	ug/L	100
6) Bromomethane	1.61	94	193415	52.579	ug/L	100
8) Chloroethane	1.69	64	159490	49.548	ug/L	100
9) Trichlorofluoromethane	1.88	101	300356	41.498	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	178411	41.394	ug/L	100
12) 1,1-Dichloroethene	2.28	96	196091	44.953	ug/L	100
13) Acetone	2.32	43	247239	92.301	ug/L	100
14) Carbon disulfide	2.47	76	562392	44.112	ug/L	100
15) Methyl Acetate	2.61	43	258248	62.250	ug/L	100
16) Methylene chloride	2.70	84	275393	52.721	ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	221450	48.398	ug/L	100
18) Methyl tert-butyl Ether	3.00	73	790122	57.563	ug/L	100
19) 1,1-Dichloroethane	3.44	63	417422	52.705	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	277568	52.852	ug/L	100
22) 2-Butanone	4.26	43	378197	120.468	ug/L	100
23) Bromochloromethane	4.54	128	153493	54.168	ug/L	100
25) Chloroform	4.67	83	451674	52.015	ug/L	100
27) 1,2-Dichloroethane	5.40	62	354712	54.824	ug/L	100
29) Cyclohexane	4.99	56	267993	43.924	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	331276	46.305	ug/L	100
31) Carbon tetrachloride	5.13	117	272184	43.802	ug/L	100
33) Benzene	5.39	78	963106	50.591	ug/L	100
34) Trichloroethene	6.18	95	238905	47.433	ug/L	100
35) Methylcyclohexane	6.41	83	301972	41.212	ug/L	100
37) 1,2-Dichloropropane	6.43	63	250120	53.032	ug/L	100
38) Bromodichloromethane	6.75	83	342174	52.764	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	375886	51.551	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	690423	123.564	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	1041394	49.998	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	335577	51.616	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	275818	53.826	ug/L	100
46) Tetrachloroethene	8.22	164	177454	43.678	ug/L	100
48) 2-Hexanone	8.36	43	564875	118.848	ug/L	100
49) Dibromochloromethane	8.47	129	291191	53.314	ug/L	100
50) 1,2-Dibromoethane	8.58	107	296273	54.762	ug/L	100
51) Chlorobenzene	9.12	112	675495	48.022	ug/L	100
52) Ethylbenzene	9.24	91	1052265	47.364	ug/L	100
53) m,p-Xylene	9.37	106	411534	47.222	ug/L	100
54) o-xylene	9.77	106	428027	49.457	ug/L	100
55) Styrene	9.79	104	765196	51.351	ug/L	100
56) Isopropylbenzene	10.16	105	1013014	46.036	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	466357	54.076	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	364744	55.230	ug/L	100
61) Bromoform	9.95	173	226745	53.501	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	501457	47.450	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	520750	46.740	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	555723	49.811	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	100323	56.217	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	376220	46.829	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	306276	48.801	ug/L	100
69) Naphthalene	13.74	128	1073387	55.337	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	350702	49.547	ug/L	100

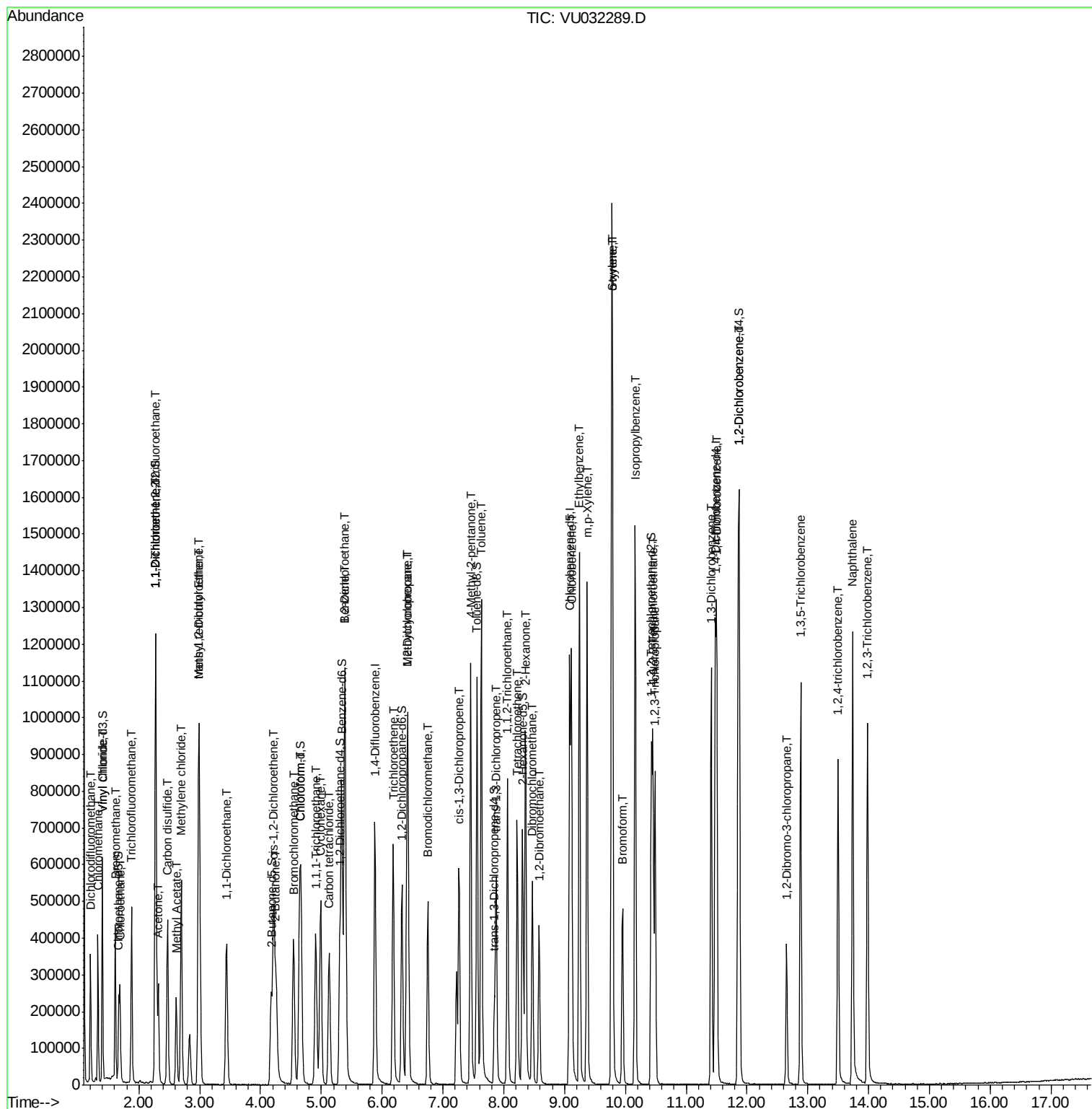
(#) = qualifier out of range (m) = manual integration (+) = signals summed

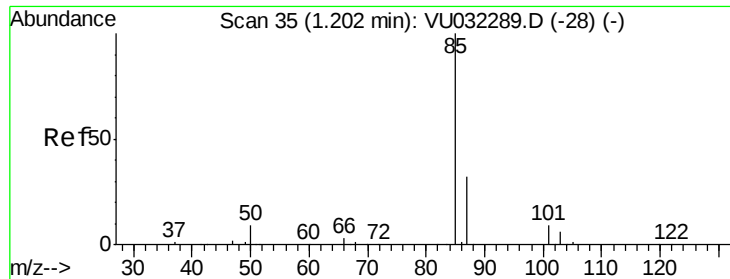
Data File : VU032289.D

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#2

Dichlorodifluoromethane

Concen: 40.081 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

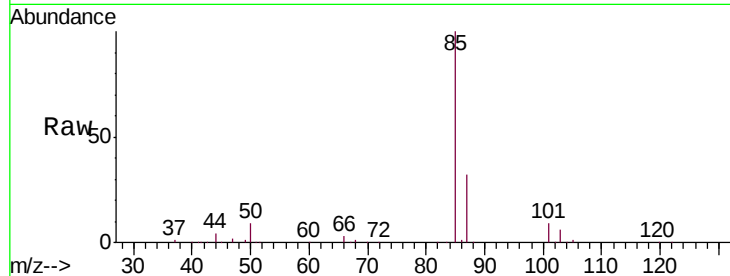
VSTD05054

Tgt Ion: 85 Resp: 208358

Ion Ratio Lower Upper

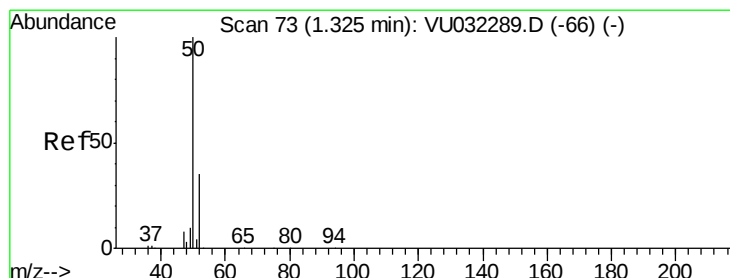
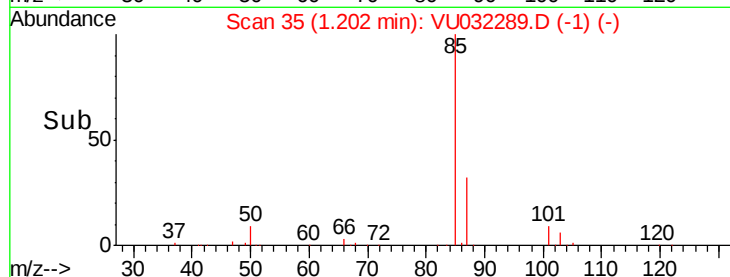
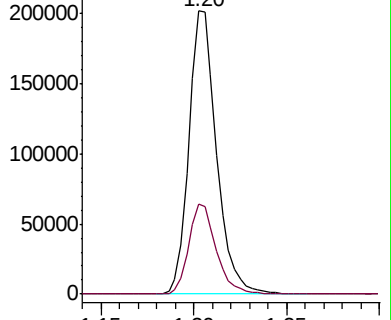
85 100

87 31.6 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) (-)



#3

Chloromethane

Concen: 51.517 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032289.D

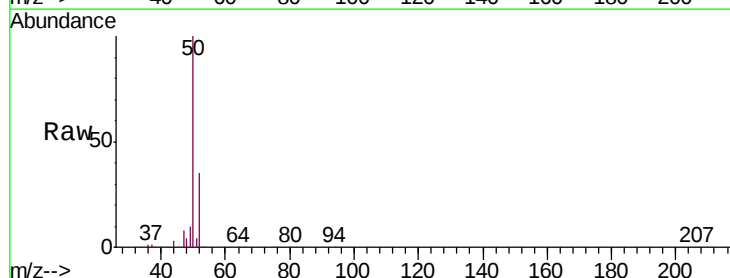
Acq: 24 May 2019 04:44

Tgt Ion: 50 Resp: 245980

Ion Ratio Lower Upper

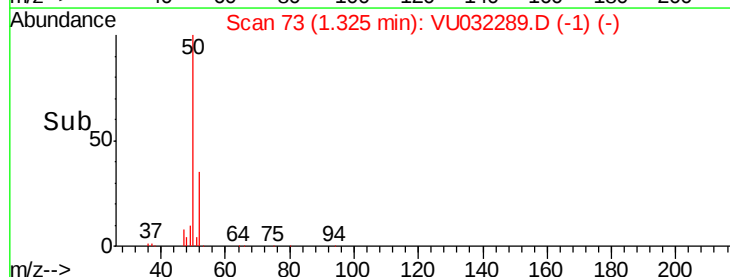
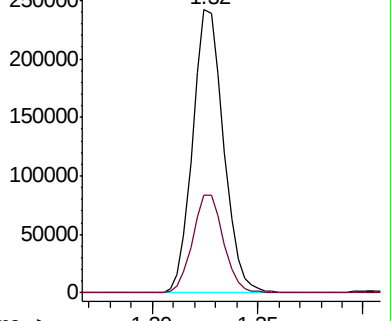
50 100

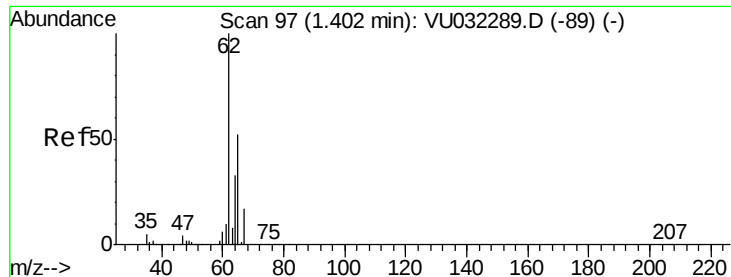
52 34.6 24.2 45.0



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

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





#5

Vinyl chloride

Concen: 45.475 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

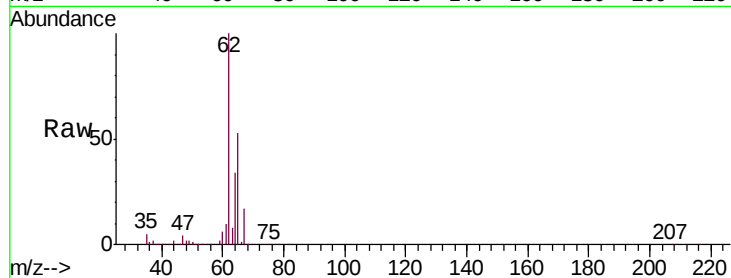
VSTD05054

Tgt Ion: 62 Resp: 237095

Ion Ratio Lower Upper

62 100

64 34.0 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU032289.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032289.D (-89) (-)

1.40

250000

200000

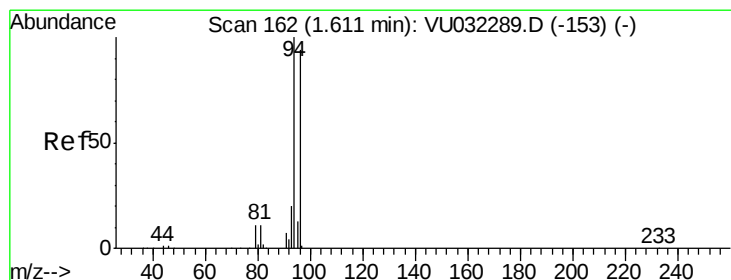
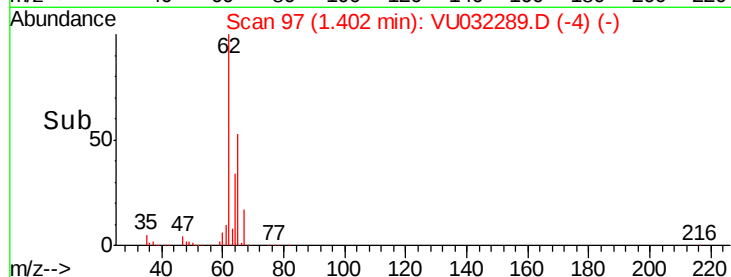
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 52.579 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU032289.D

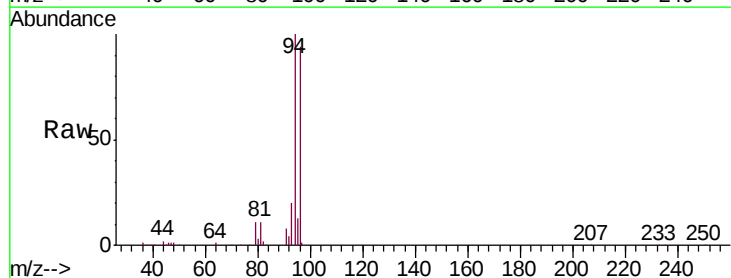
Acq: 24 May 2019 04:44

Tgt Ion: 94 Resp: 193415

Ion Ratio Lower Upper

94 100

96 94.3 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VU032289.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU032289.D (-153) (-)

1.61

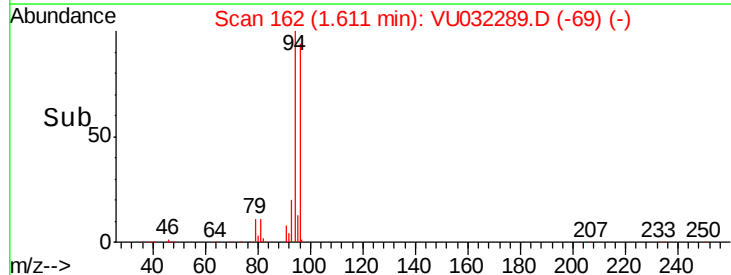
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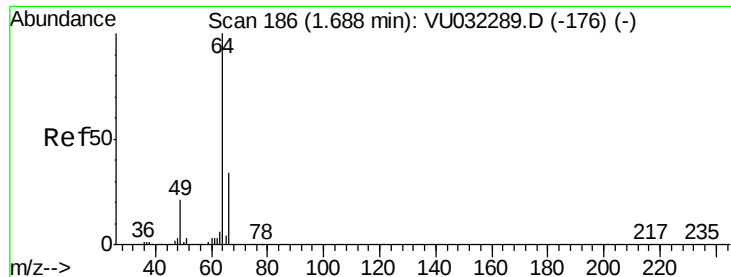
100000

50000

0

Time-->

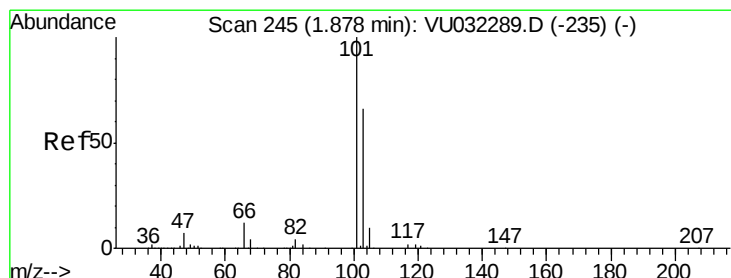
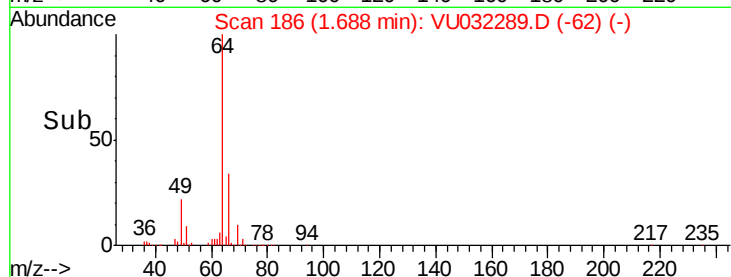
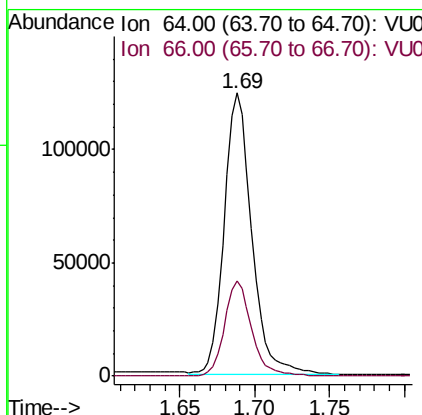
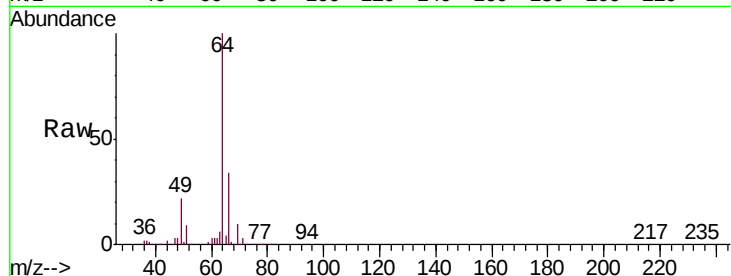




#8
Chloroethane
Concen: 49.548 ug/L
RT: 1.69 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

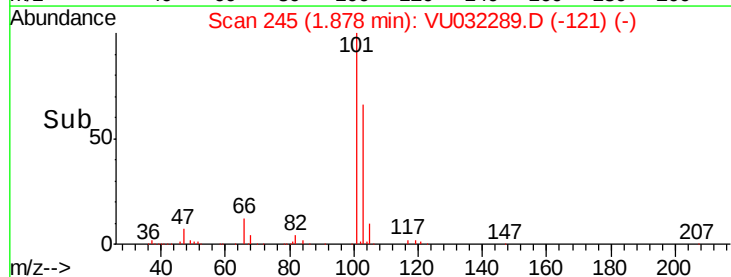
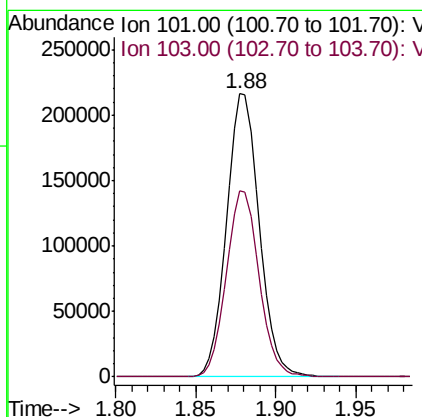
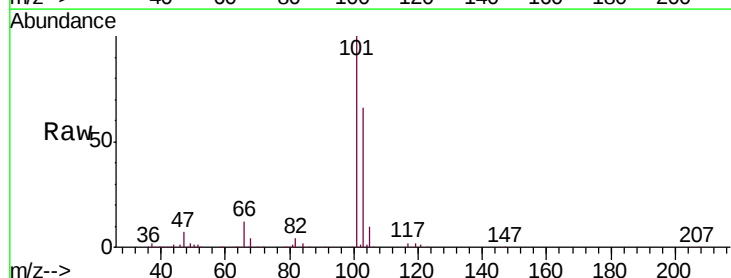
Instrument :
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ClientSampleId :
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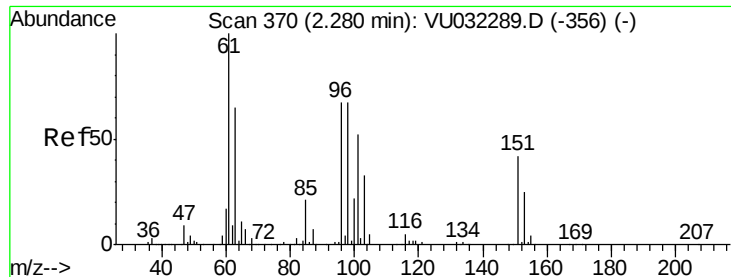
Tgt Ion: 64 Resp: 159490
Ion Ratio Lower Upper
64 100
66 33.5 23.4 43.6



#9
Trichlorofluoromethane
Concen: 41.498 ug/L
RT: 1.88 min Scan# 245
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

Tgt Ion: 101 Resp: 300356
Ion Ratio Lower Upper
101 100
103 65.8 52.6 79.0





#10

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

Concen: 41.394 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

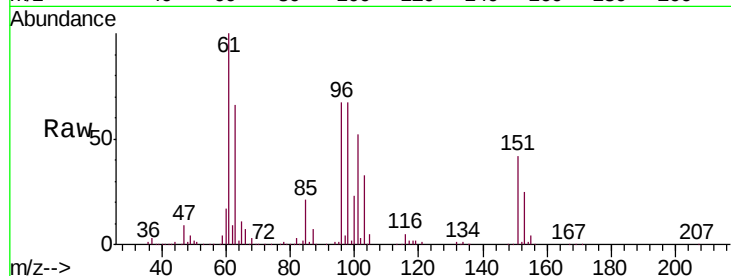
Tgt Ion:101 Resp: 178411

Ion Ratio Lower Upper

101 100

85 41.0 32.8 49.2

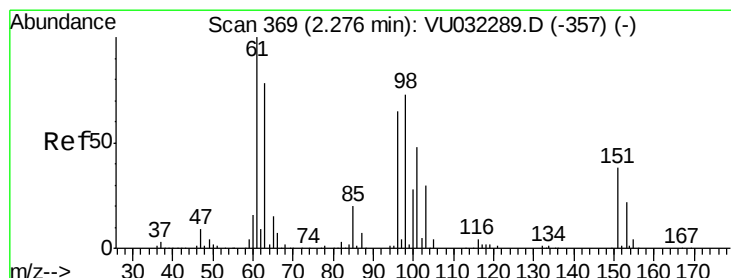
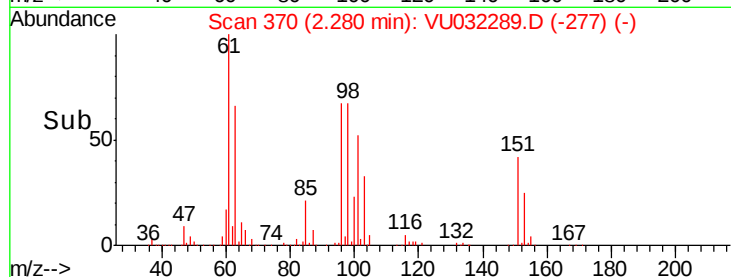
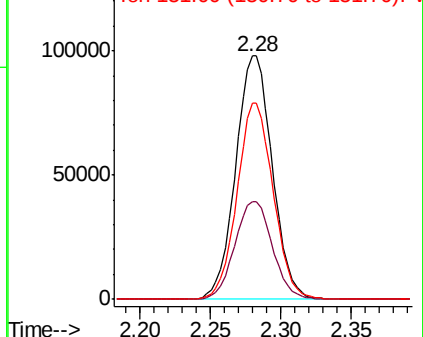
151 79.4 63.5 95.3



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: 44.953 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

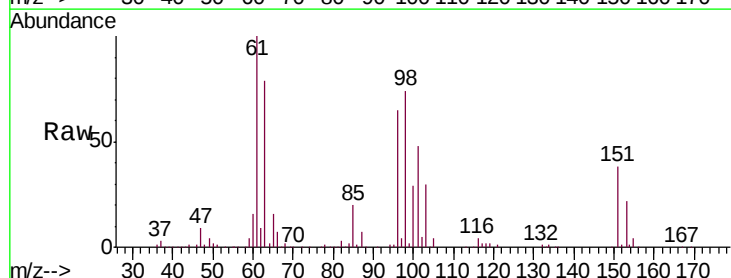
Tgt Ion: 96 Resp: 196091

Ion Ratio Lower Upper

96 100

61 154.3 108.0 200.6

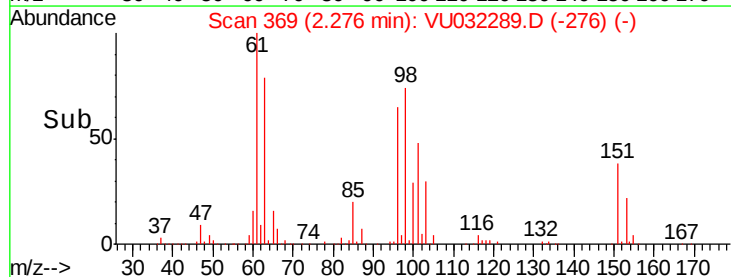
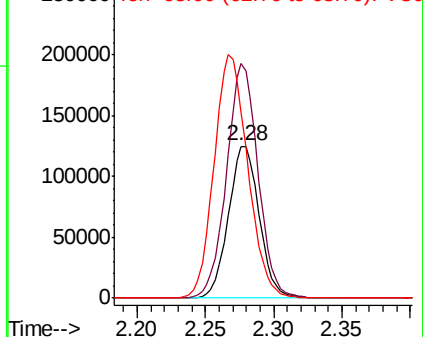
63 122.1 85.5 158.7

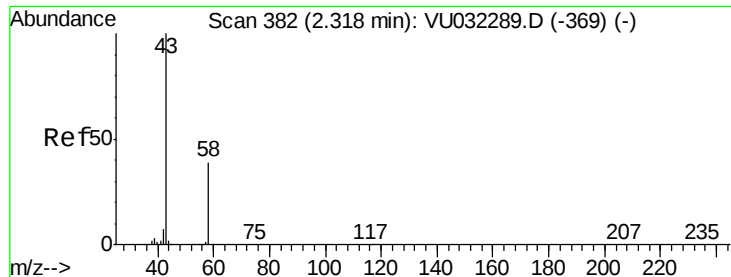


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 92.301 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

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ClientSampleId :

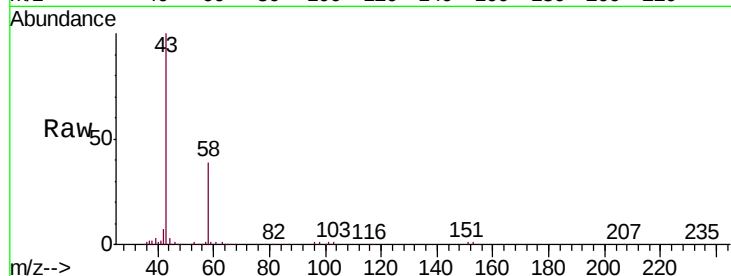
VSTD05054

Tgt Ion: 43 Resp: 247239

Ion Ratio Lower Upper

43 100

58 38.6 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) (-)

2.32

150000

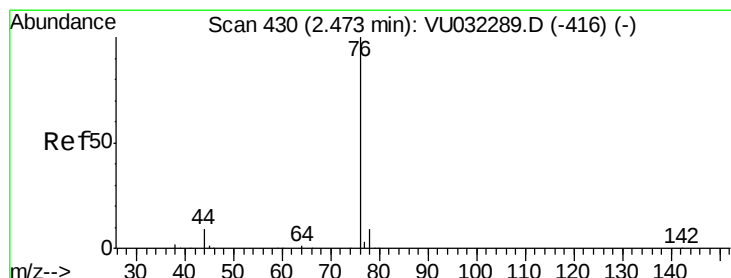
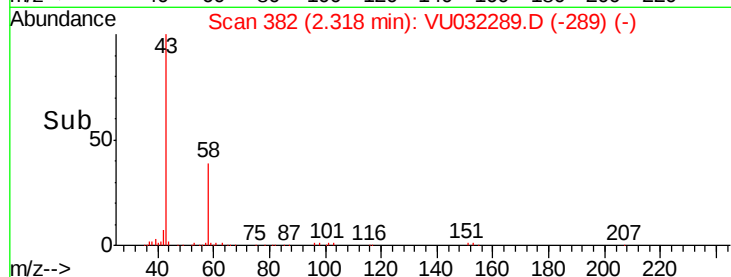
100000

50000

0

2.25 2.30 2.35 2.40

Time-->



#14

Carbon disulfide

Concen: 44.112 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032289.D

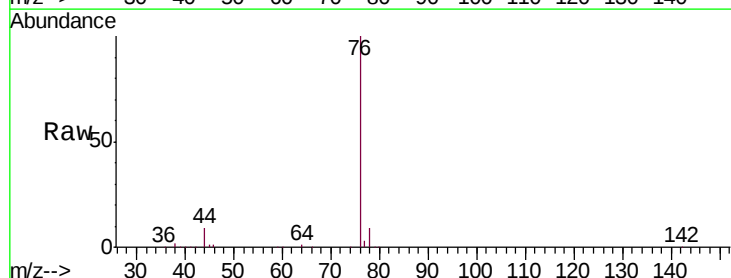
Acq: 24 May 2019 04:44

Tgt Ion: 76 Resp: 562392

Ion Ratio Lower Upper

76 100

78 9.1 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) (-)

2.47

400000

300000

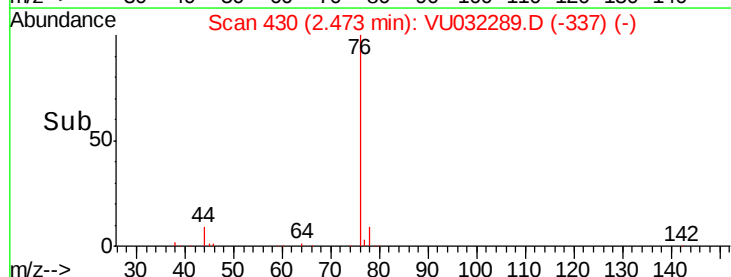
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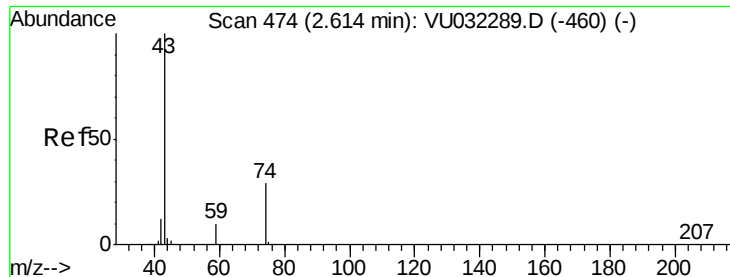
100000

0

2.40 2.45 2.50 2.55

Time-->

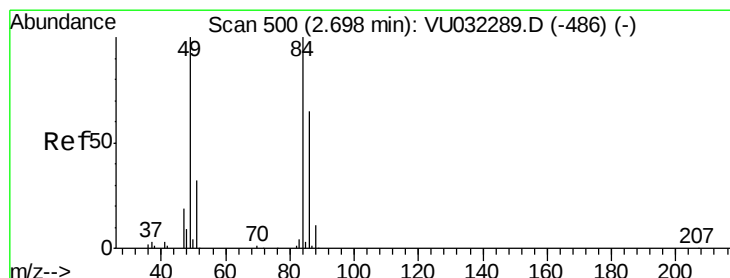
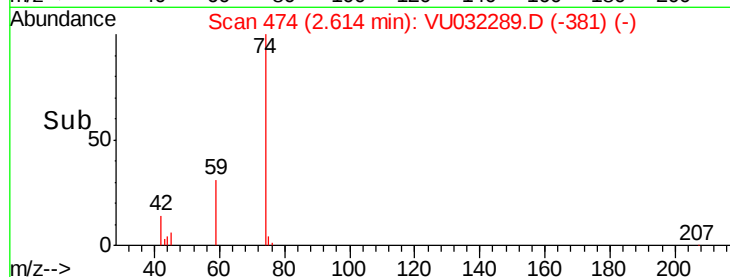
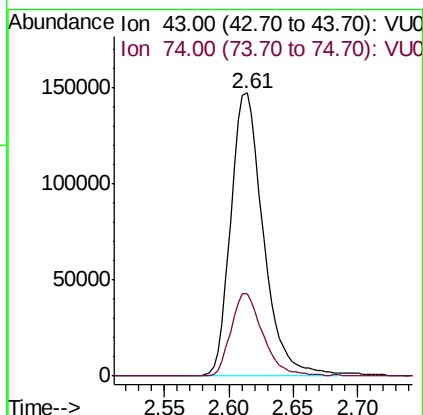
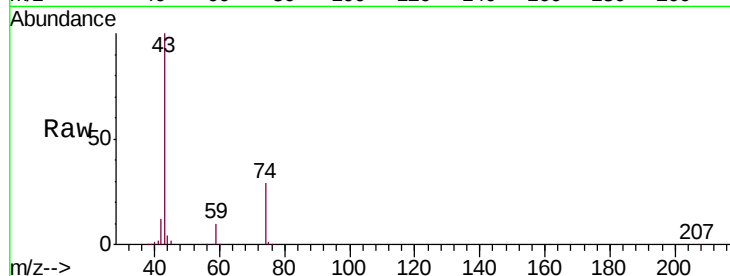




#15
Methyl Acetate
Concen: 62.250 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

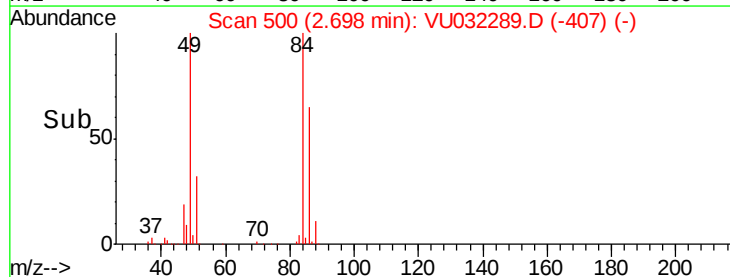
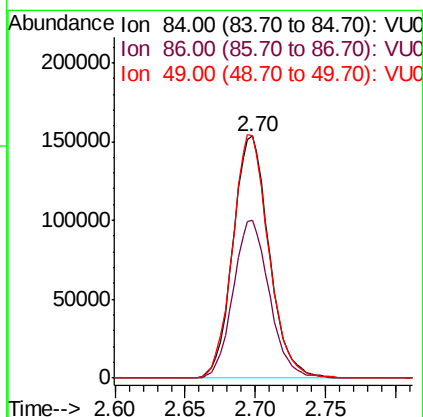
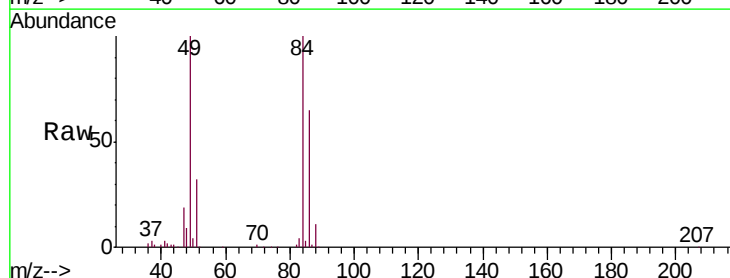
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

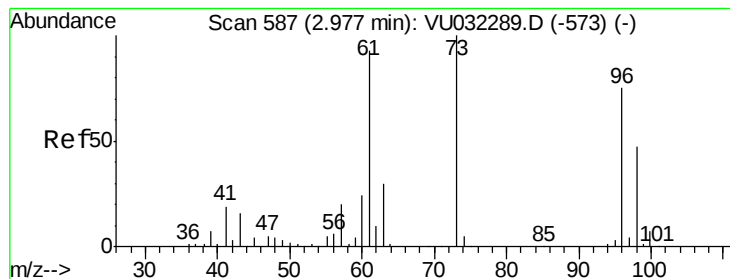
Tgt Ion: 43 Resp: 258248
Ion Ratio Lower Upper
43 100
74 28.9 23.1 34.7



#16
Methylene chloride
Concen: 52.721 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

Tgt Ion: 84 Resp: 275393
Ion Ratio Lower Upper
84 100
86 65.3 45.7 84.9
49 100.0 70.0 130.0





#17

trans-1,2-Dichloroethene

Concen: 48.398 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

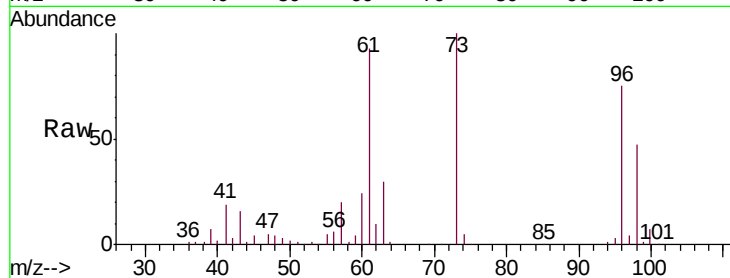
Tgt Ion: 96 Resp: 221450

Ion Ratio Lower Upper

96 100

61 123.6 86.5 160.7

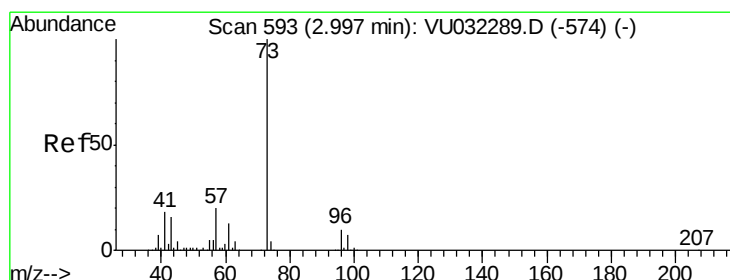
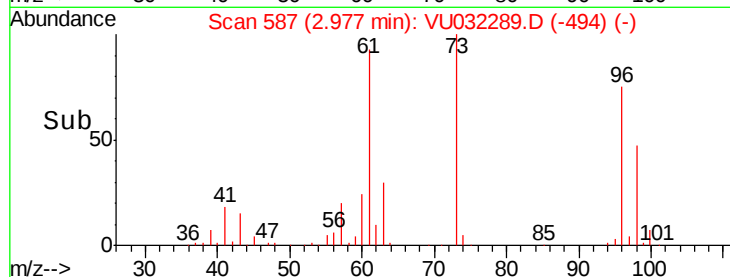
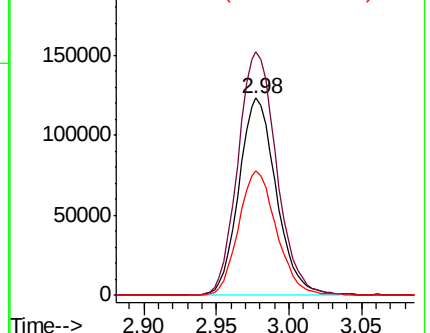
98 63.1 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU032289.D (-573) (-)

Ion 61.00 (60.70 to 61.70): VU032289.D (-573) (-)

Ion 98.00 (97.70 to 98.70): VU032289.D (-573) (-)



#18

Methyl tert-butyl Ether

Concen: 57.563 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

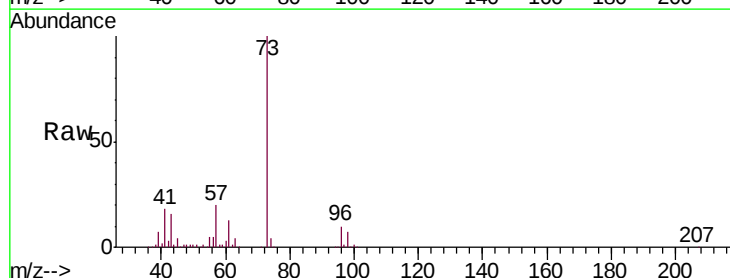
Tgt Ion: 73 Resp: 790122

Ion Ratio Lower Upper

73 100

43 16.5 13.2 19.8

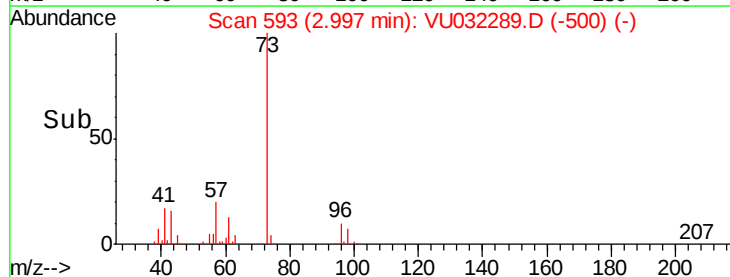
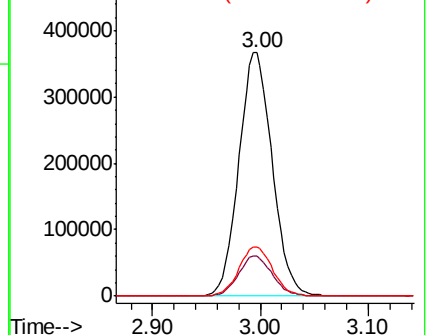
57 20.6 16.5 24.7

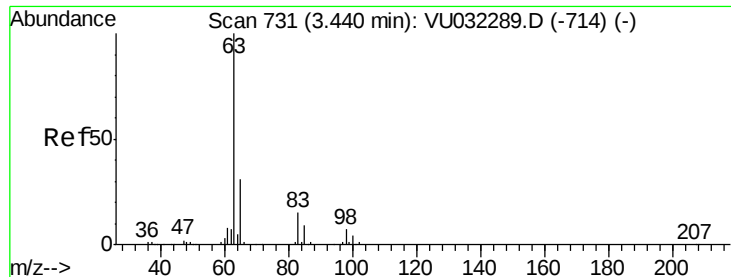


Abundance Ion 73.00 (72.70 to 73.70): VU032289.D (-574) (-)

Ion 43.00 (42.70 to 43.70): VU032289.D (-574) (-)

Ion 57.00 (56.70 to 57.70): VU032289.D (-574) (-)

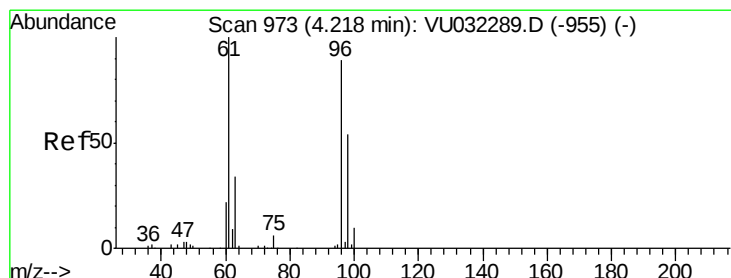
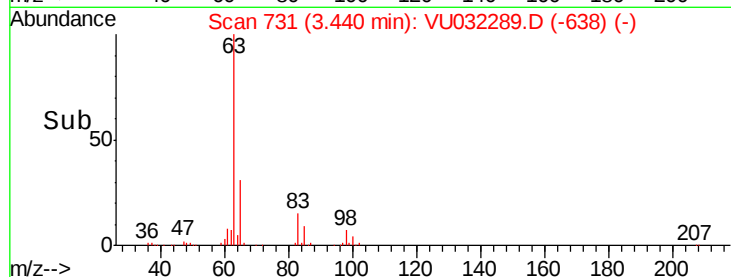
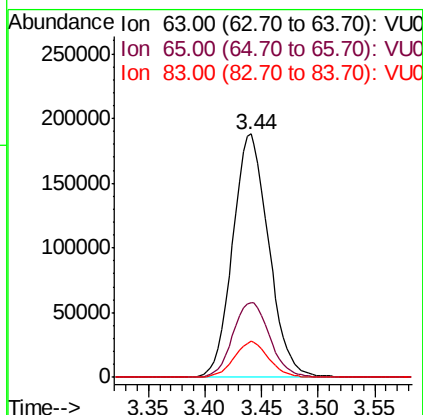
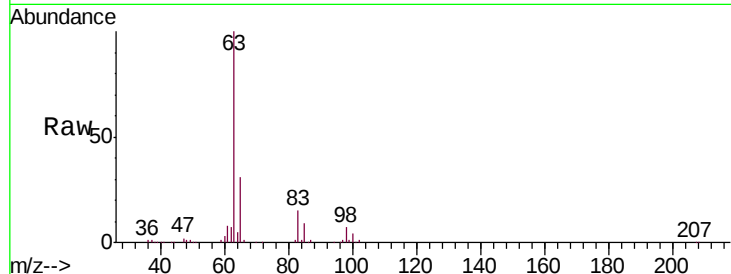




#19
 1,1-Dichloroethane
 Concen: 52.705 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

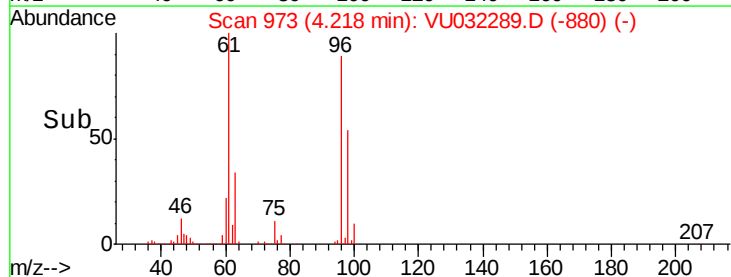
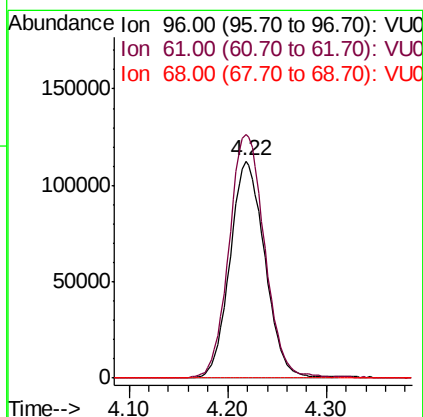
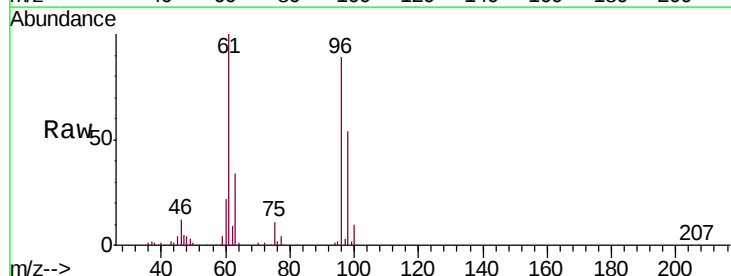
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

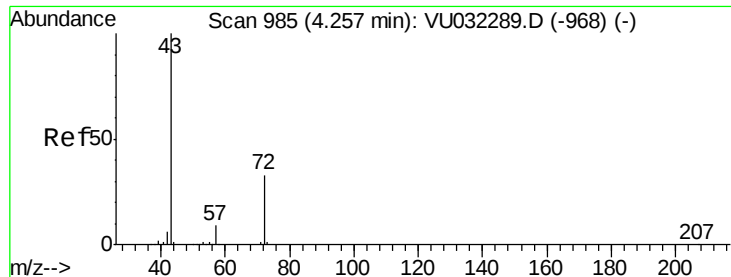
Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.8	21.6	40.0
83	14.7	10.3	19.1



#20
 cis-1,2-Dichloroethene
 Concen: 52.852 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	112.2	78.5	145.9
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 120.468 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

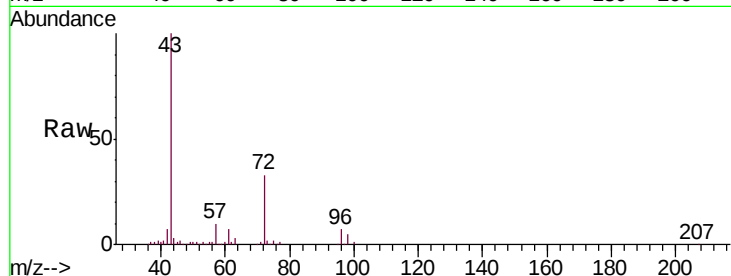
VSTD05054

Tgt Ion: 43 Resp: 378197

Ion Ratio Lower Upper

43 100

72 33.1 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) (-)

4.26

150000

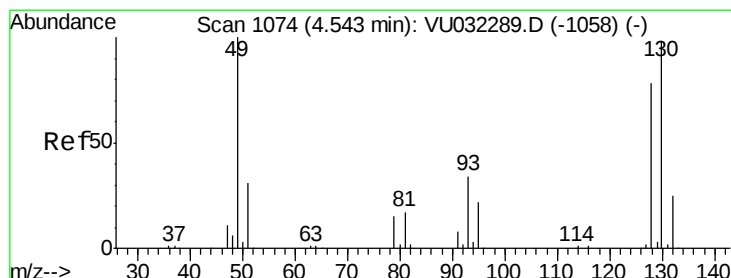
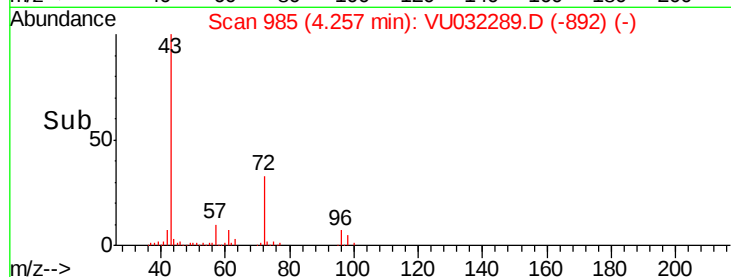
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 54.168 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Tgt Ion: 128 Resp: 153493

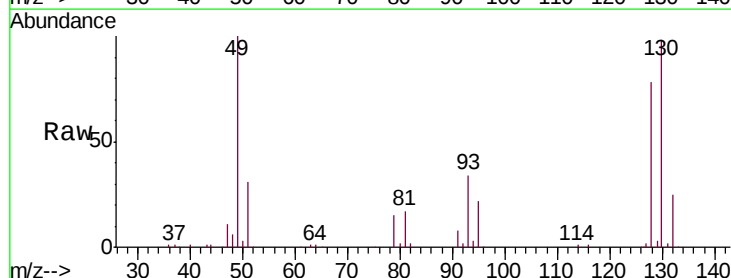
Ion Ratio Lower Upper

128 100

49 127.8 89.5 166.1

130 124.8 87.4 162.2

51 39.5 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) (-)

4.54

120000

100000

80000

60000

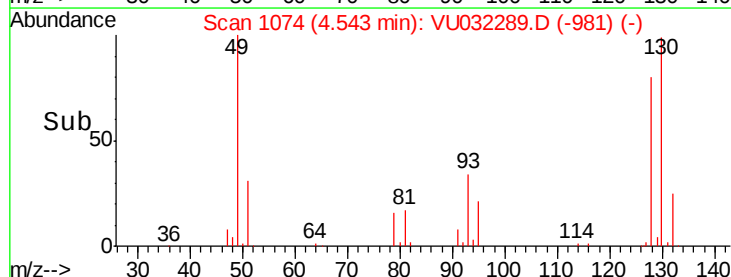
40000

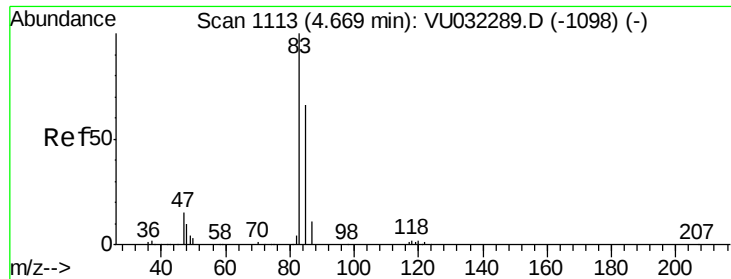
20000

0

4.45 4.50 4.55 4.60

Time-->





#25

Chloroform

Concen: 52.015 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

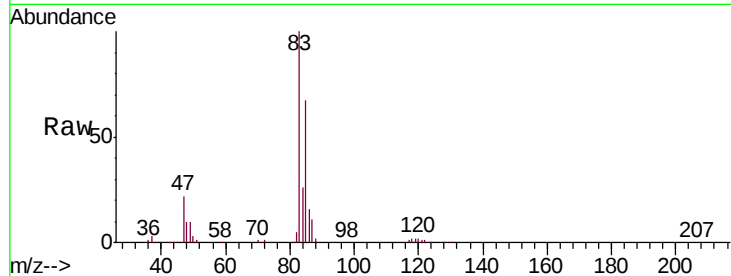
VSTD05054

Tgt Ion: 83 Resp: 451674

Ion Ratio Lower Upper

83 100

85 66.9 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

200000

150000

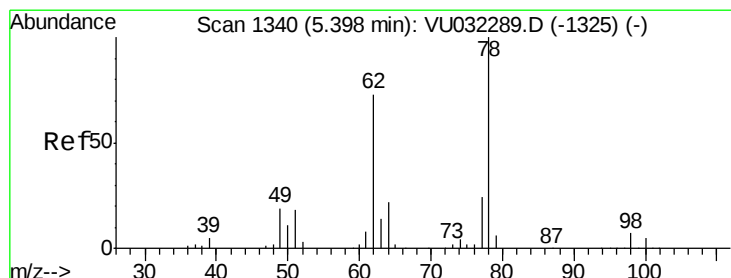
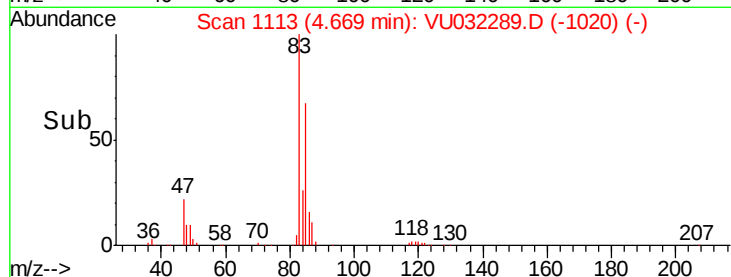
100000

50000

0

4.60 4.70 4.80

Time-->



#27

1,2-Dichloroethane

Concen: 54.824 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU032289.D

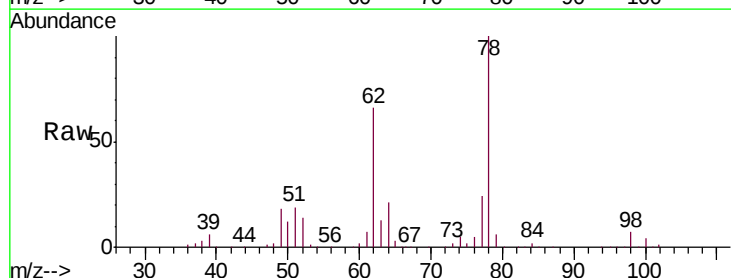
Acq: 24 May 2019 04:44

Tgt Ion: 62 Resp: 354712

Ion Ratio Lower Upper

62 100

98 9.9 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

200000

150000

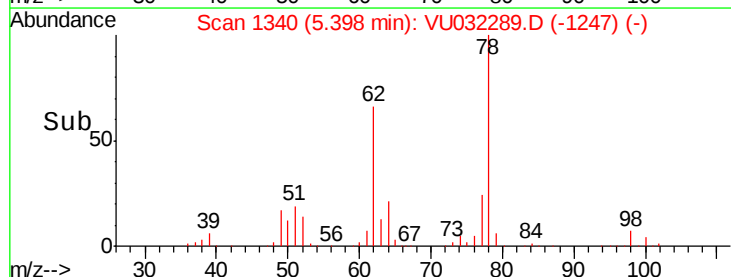
100000

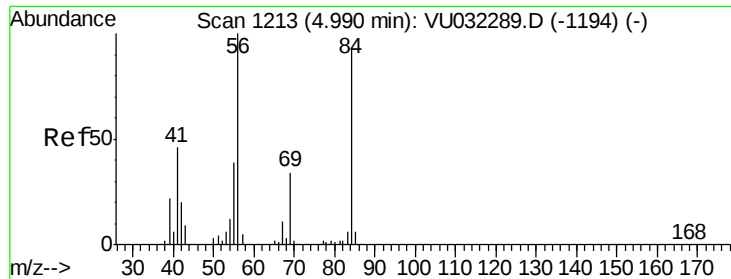
50000

0

5.30 5.35 5.40 5.45 5.50

Time-->

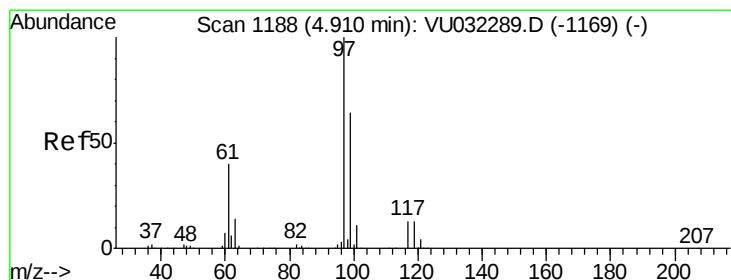
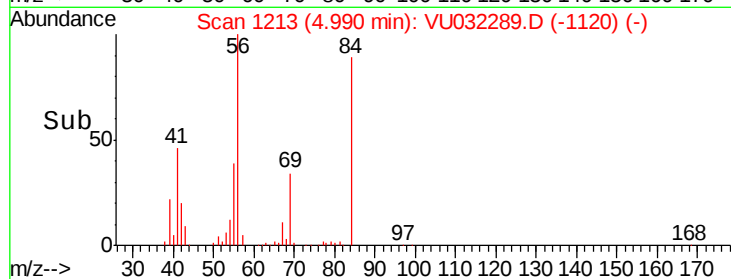
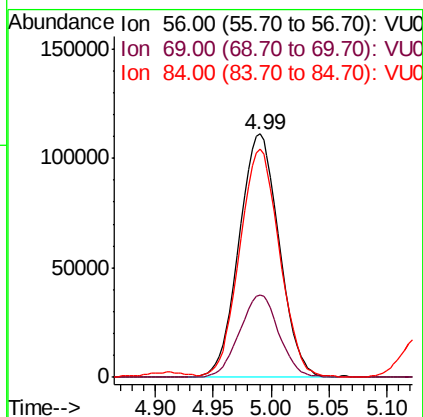
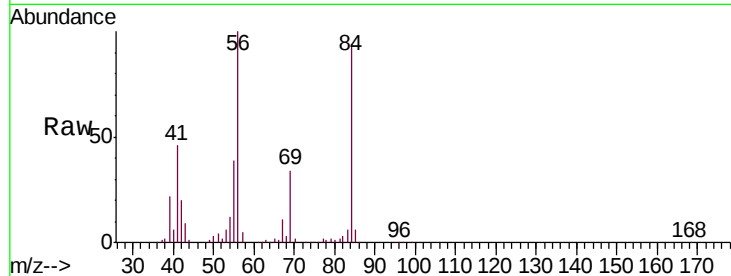




#29
Cyclohexane
Concen: 43.924 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

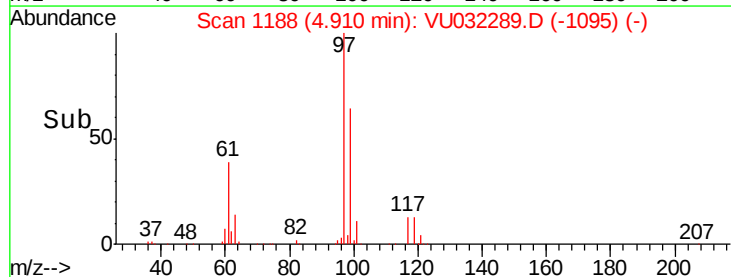
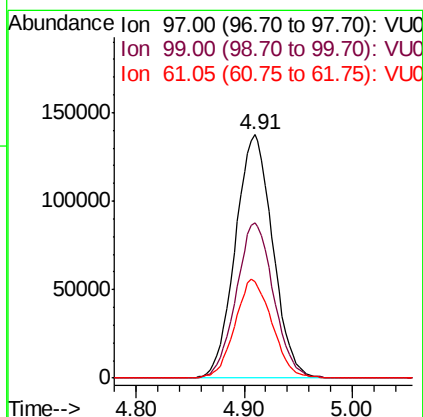
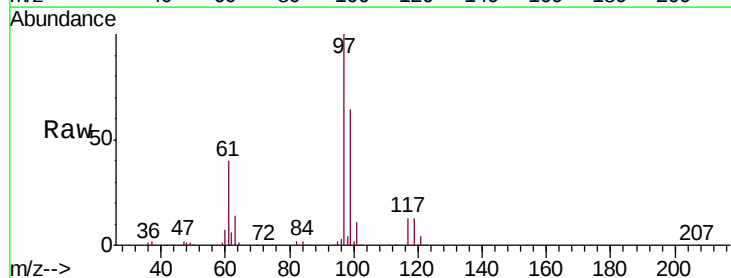
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

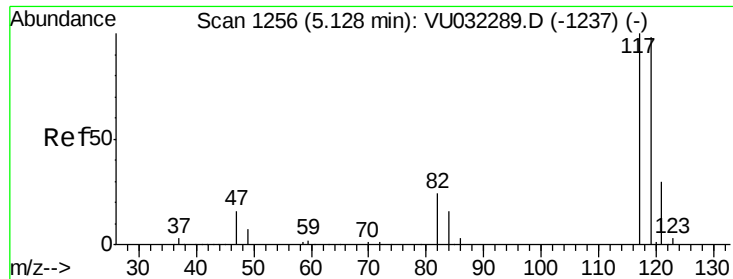
Tgt Ion: 56 Resp: 267993
Ion Ratio Lower Upper
56 100
69 33.3 26.6 40.0
84 92.3 73.8 110.8



#30
1,1,1-Trichloroethane
Concen: 46.305 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

Tgt Ion: 97 Resp: 331276
Ion Ratio Lower Upper
97 100
99 64.0 51.2 76.8
61 40.3 32.2 48.4





#31

Carbon tetrachloride

Concen: 43.802 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

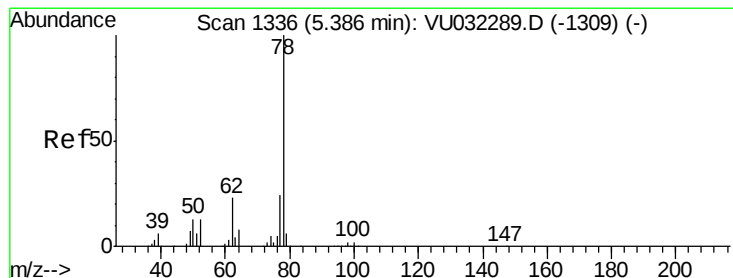
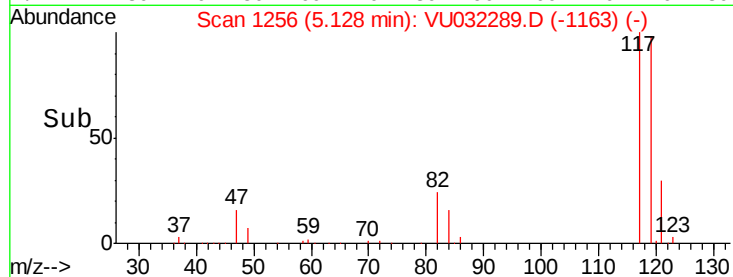
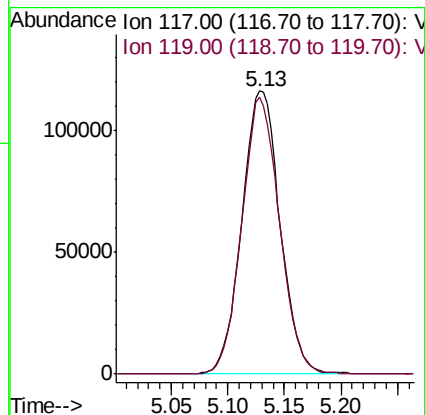
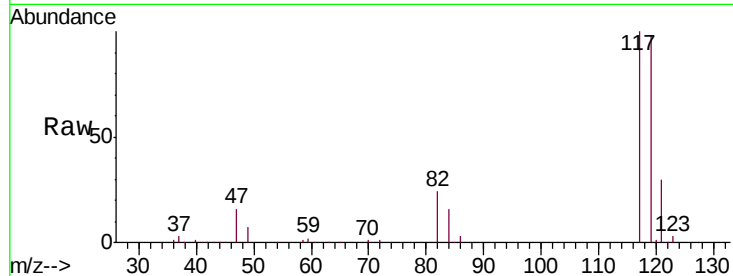
VSTD05054

Tgt Ion:117 Resp: 272184

Ion Ratio Lower Upper

117 100

119 96.7 77.4 116.0



#33

Benzene

Concen: 50.591 ug/L

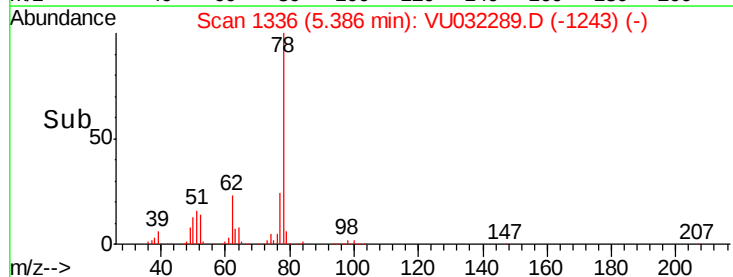
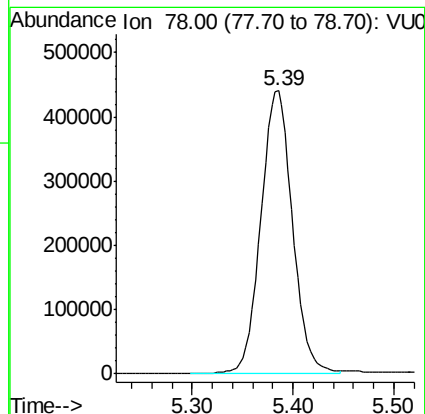
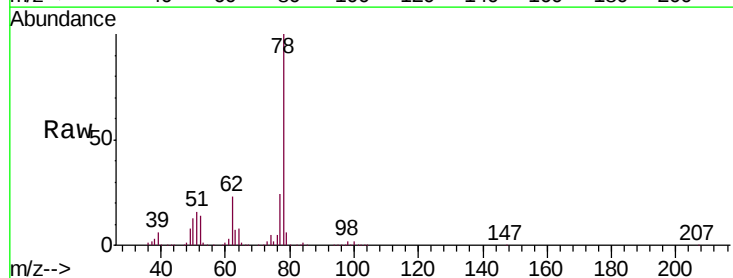
RT: 5.39 min Scan# 1336

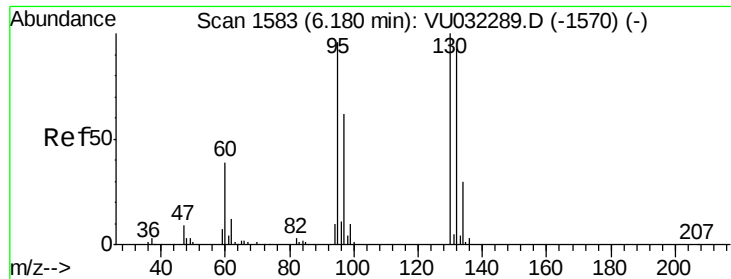
Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Tgt Ion: 78 Resp: 963106

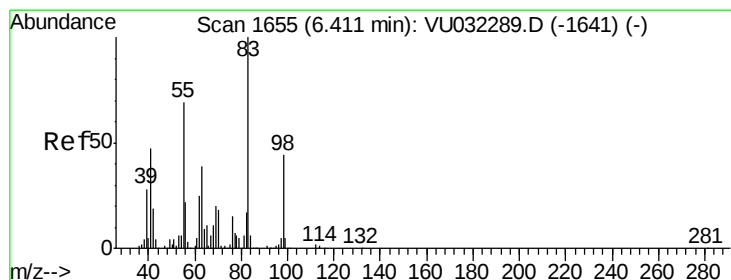
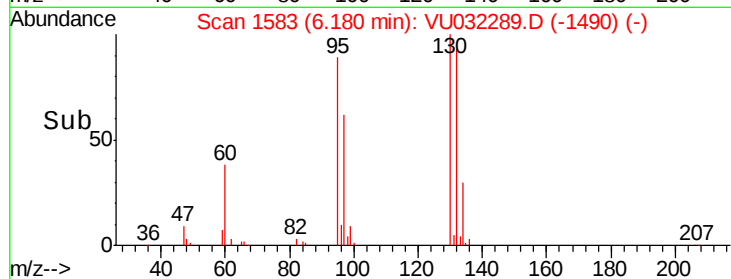
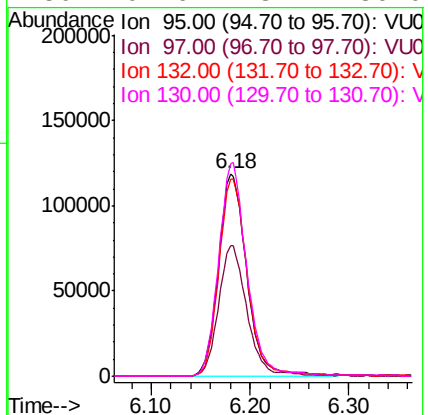
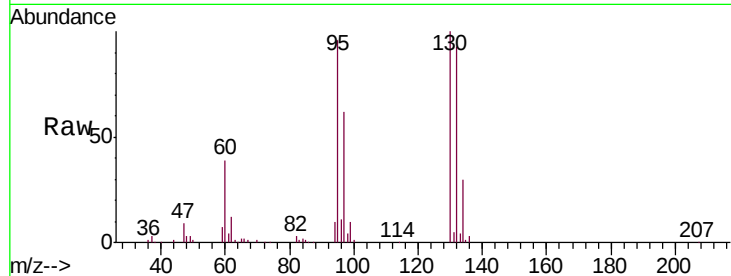




#34
 Trichloroethene
 Concen: 47.433 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

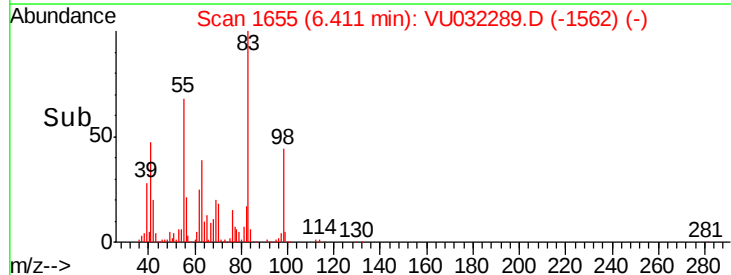
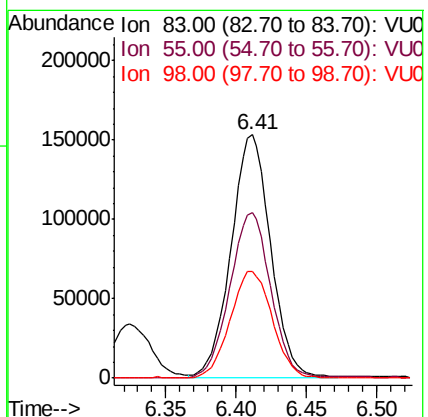
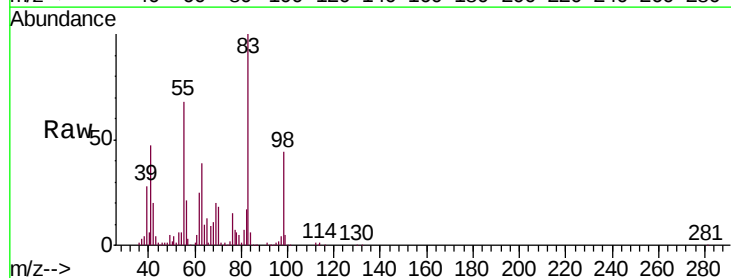
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

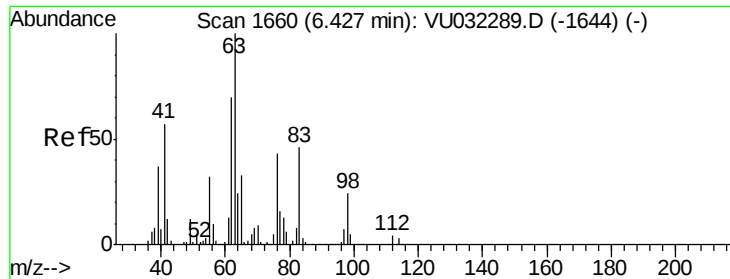
Tgt Ion: 95 Resp: 238905
 Ion Ratio Lower Upper
 95 100
 97 64.7 45.3 84.1
 132 97.1 68.0 126.2
 130 104.6 73.2 136.0



#35
 Methylcyclohexane
 Concen: 41.212 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

Tgt Ion: 83 Resp: 301972
 Ion Ratio Lower Upper
 83 100
 55 70.1 56.1 84.1
 98 46.0 36.8 55.2

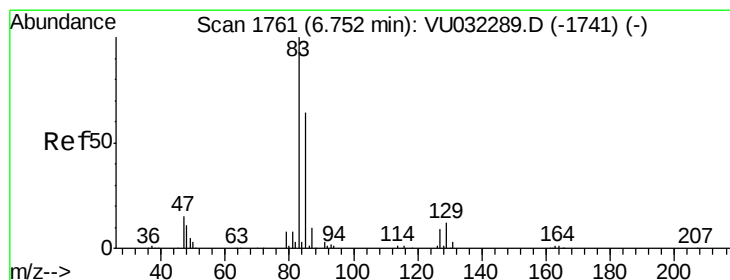
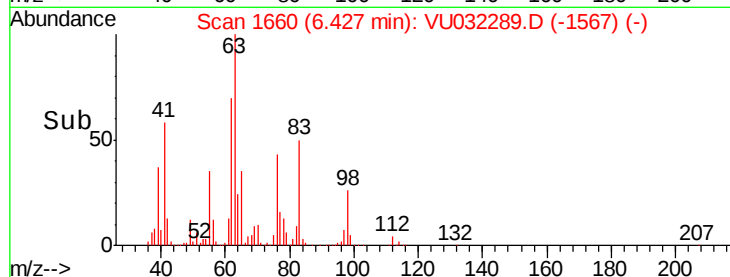
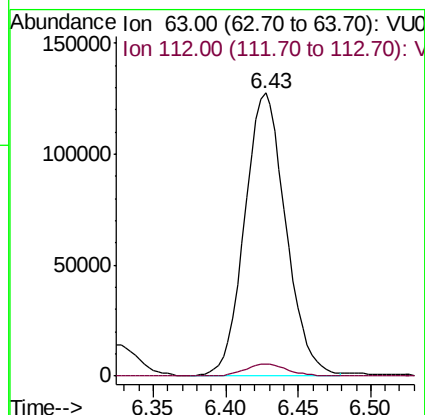
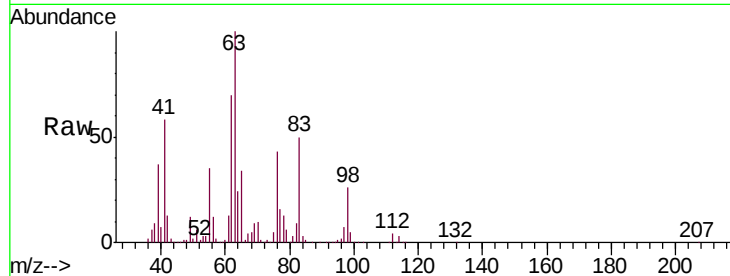




#37
 1,2-Dichloropropane
 Concen: 53.032 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

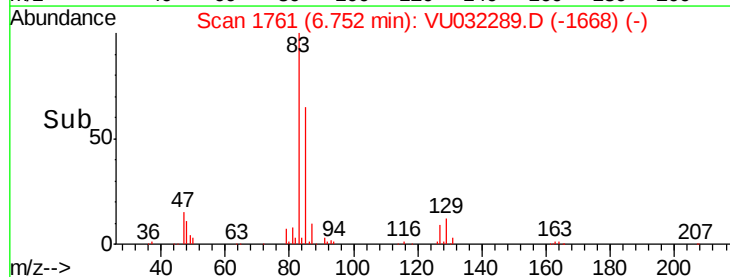
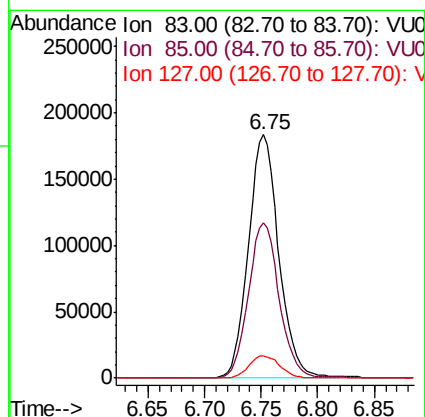
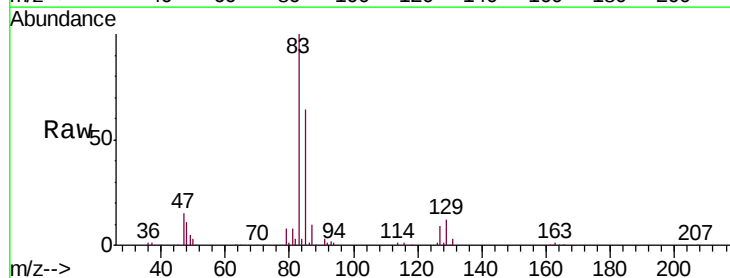
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

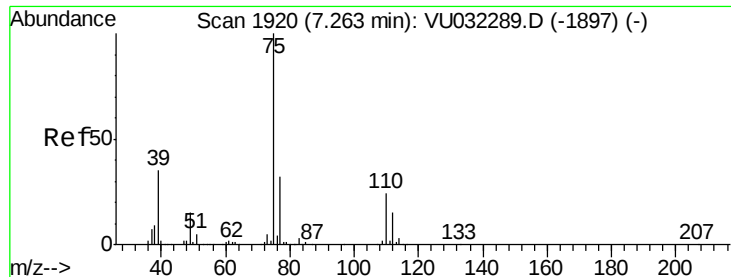
Tgt Ion: 63 Resp: 250120
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.6 5.4



#38
 Bromodichloromethane
 Concen: 52.764 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

Tgt Ion: 83 Resp: 342174
 Ion Ratio Lower Upper
 83 100
 85 63.8 44.7 82.9
 127 9.2 7.4 11.0



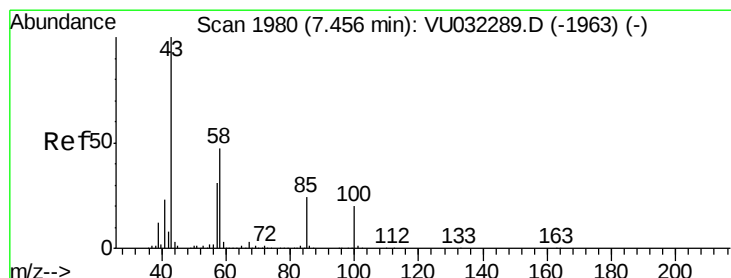
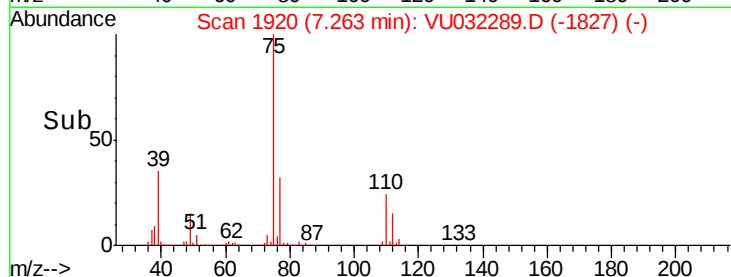
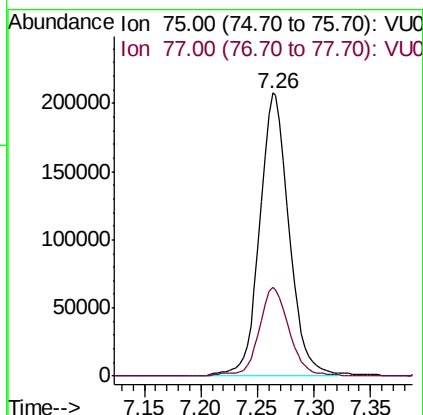
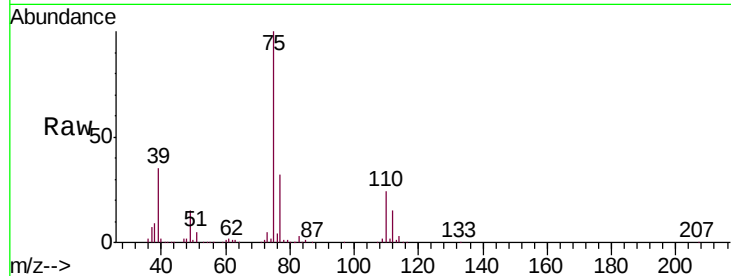


#39

cis-1,3-Dichloropropene
 Concen: 51.551 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

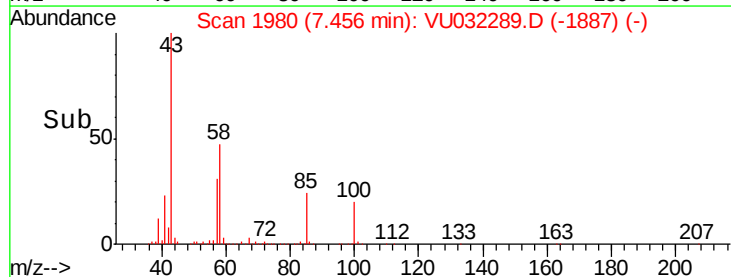
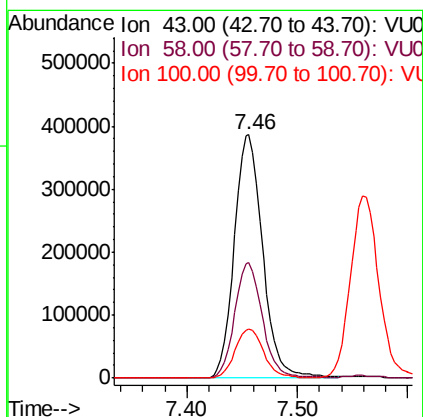
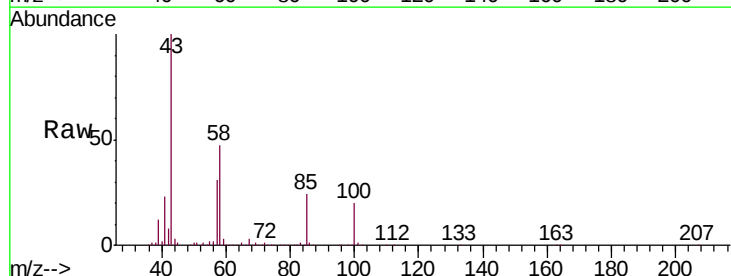
Tgt Ion: 75 Resp: 375886
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.1 41.1

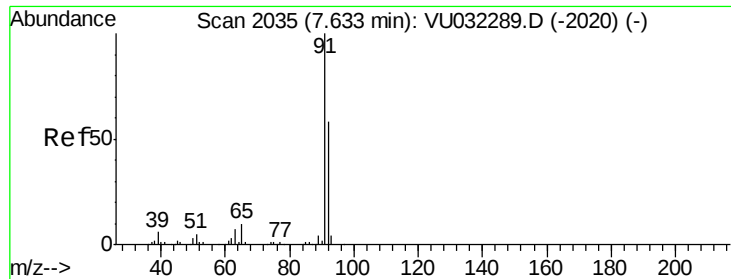


#40

4-Methyl-2-pentanone
 Concen: 123.564 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

Tgt Ion: 43 Resp: 690423
 Ion Ratio Lower Upper
 43 100
 58 46.4 37.1 55.7
 100 20.4 16.3 24.5





#42

Toluene

Concen: 49.998 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

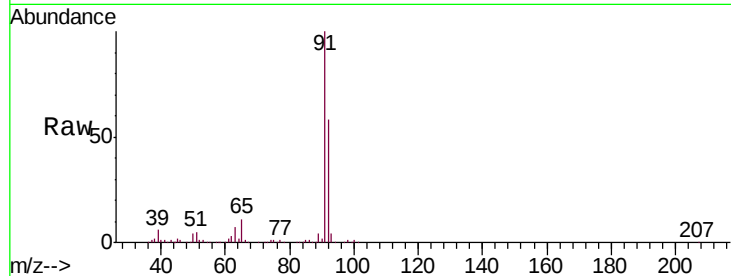
VSTD05054

Tgt Ion: 91 Resp: 1041394

Ion Ratio Lower Upper

91 100

92 57.6 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

600000

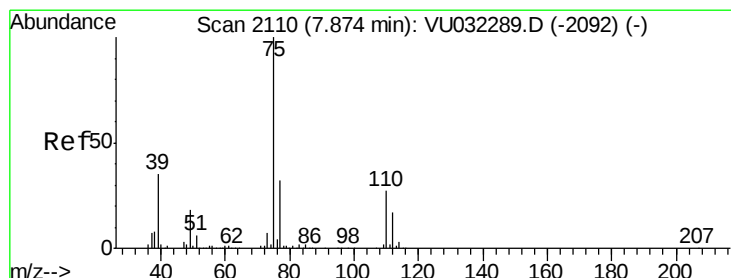
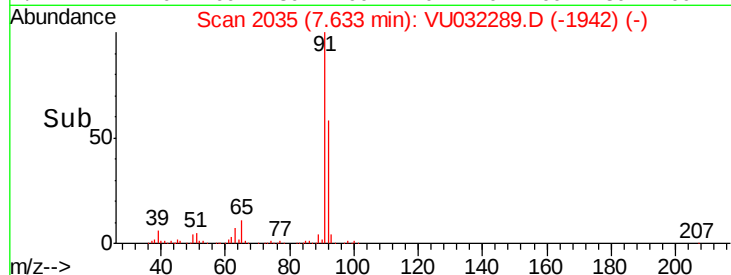
400000

200000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.616 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032289.D

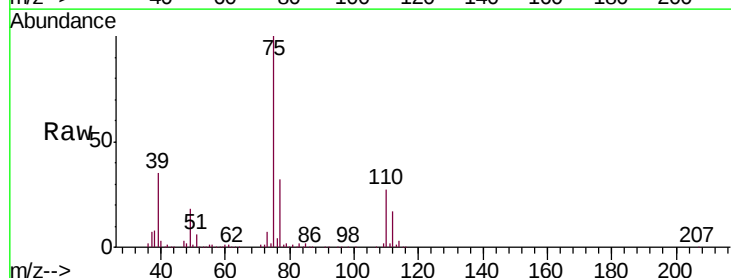
Acq: 24 May 2019 04:44

Tgt Ion: 75 Resp: 335577

Ion Ratio Lower Upper

75 100

77 32.0 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

200000

150000

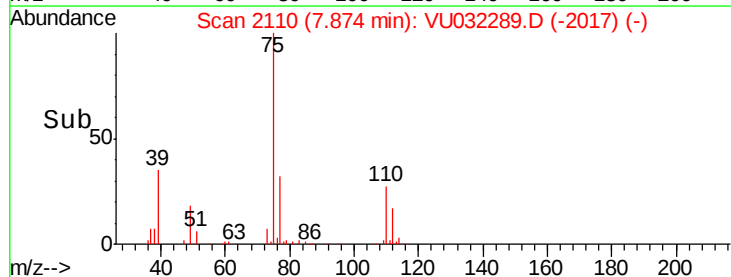
100000

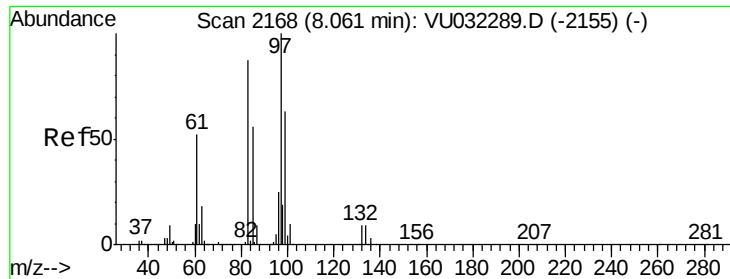
50000

0

7.80 7.90 8.00

Time-->

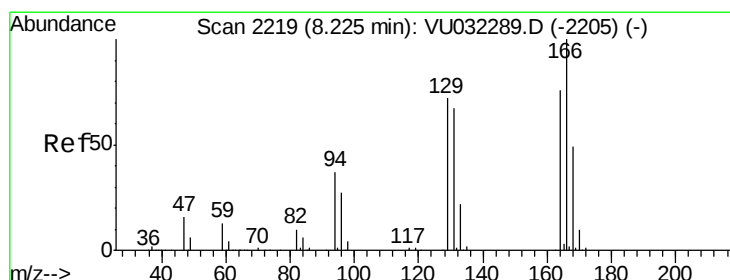
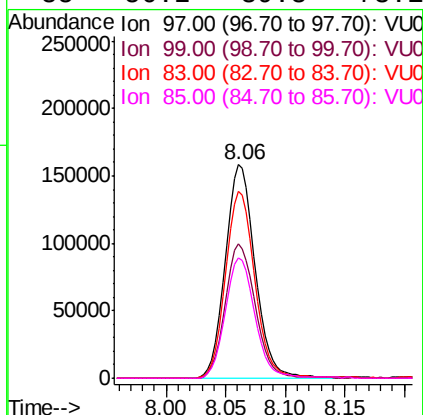
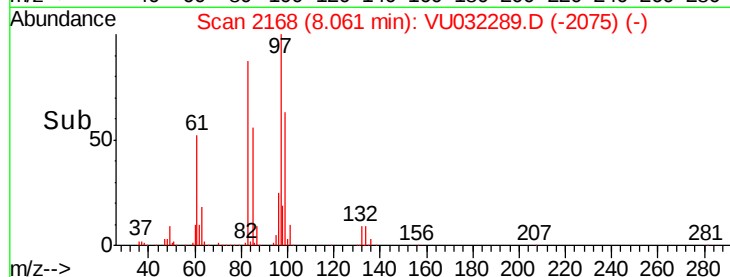
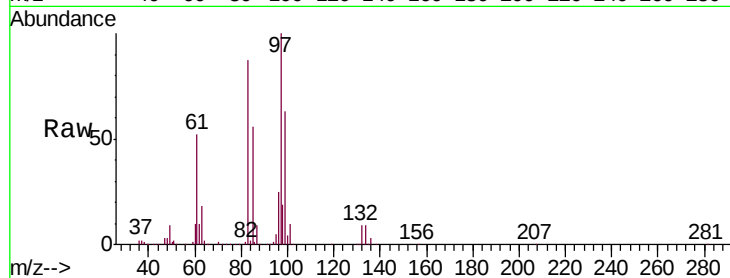




#45
 1,1,2-Trichloroethane
 Concen: 53.826 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

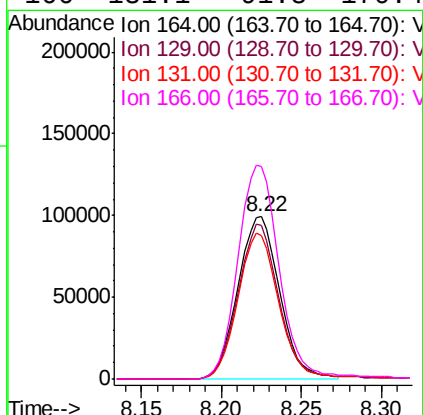
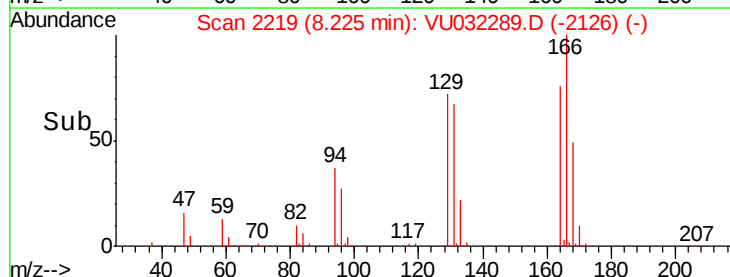
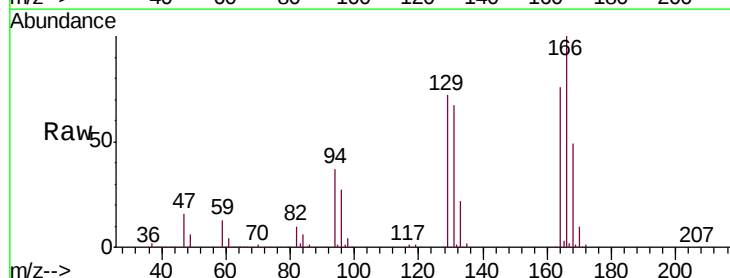
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

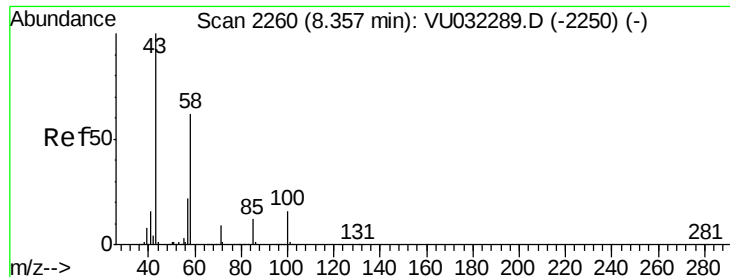
Tgt Ion:	97	Resp:	275818
Ion	Ratio	Lower	Upper
97	100		
99	62.7	43.9	81.5
83	87.4	61.2	113.6
85	56.2	39.3	73.1



#46
 Tetrachloroethene
 Concen: 43.678 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

Tgt Ion:	164	Resp:	177454
Ion	Ratio	Lower	Upper
164	100		
129	94.6	66.2	123.0
131	88.4	61.9	114.9
166	131.1	91.8	170.4

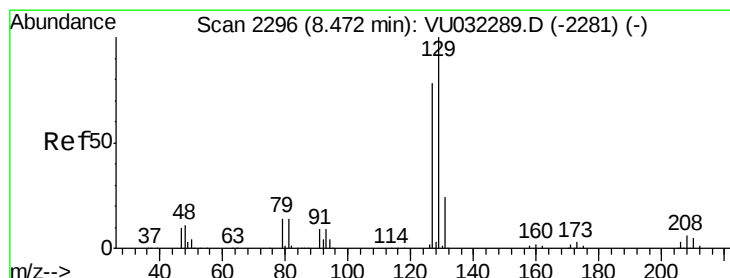
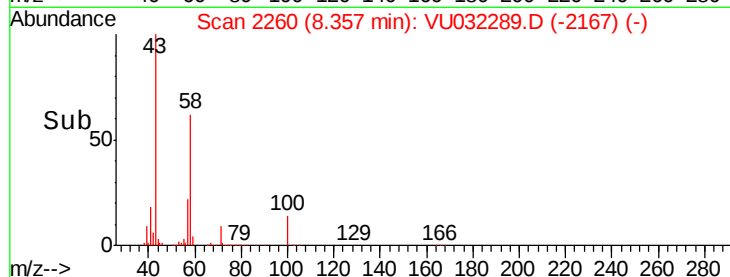
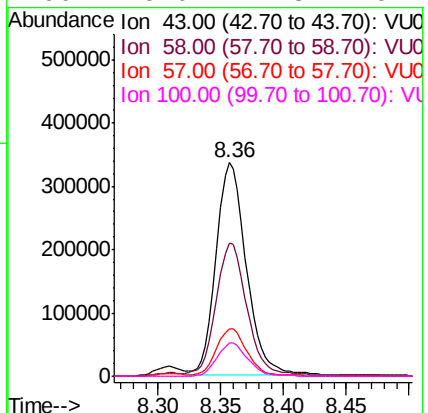
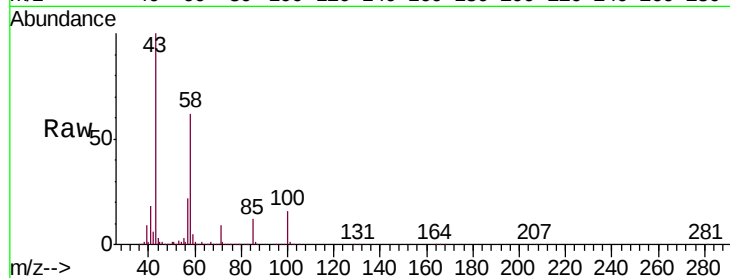




#48
2-Hexanone
Concen: 118.848 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

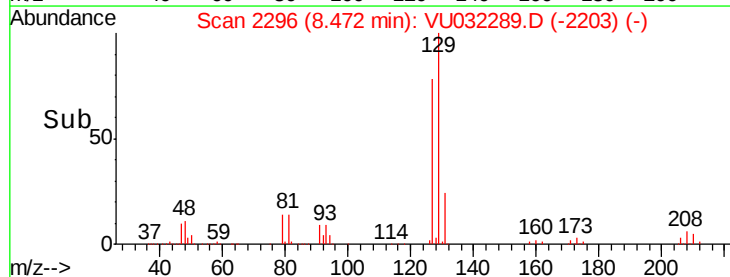
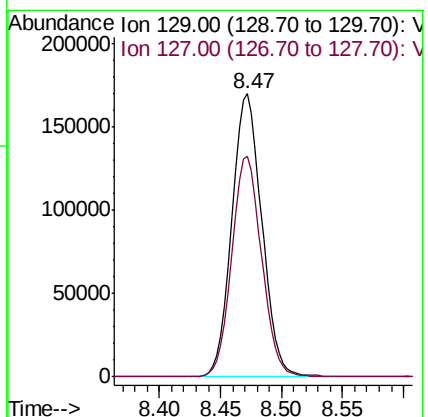
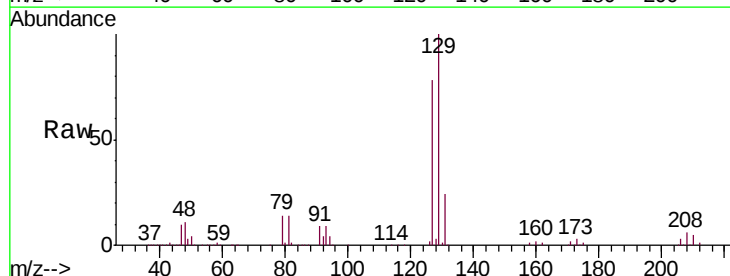
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

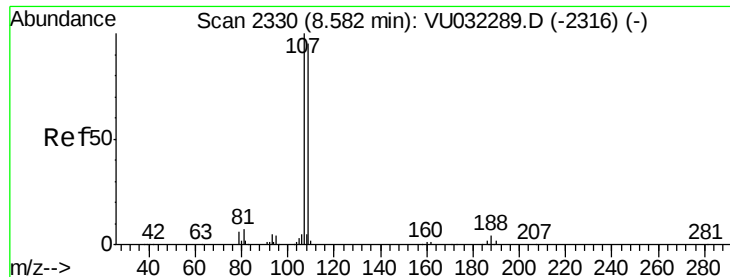
Tgt Ion: 43 Resp: 564875
Ion Ratio Lower Upper
43 100
58 64.2 51.4 77.0
57 22.3 17.8 26.8
100 16.0 12.8 19.2



#49
Dibromochloromethane
Concen: 53.314 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

Tgt Ion: 129 Resp: 291191
Ion Ratio Lower Upper
129 100
127 77.9 54.5 101.3

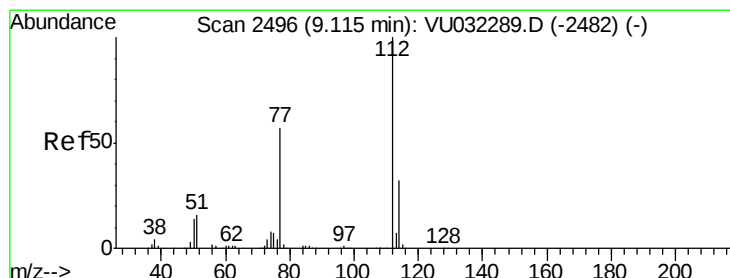
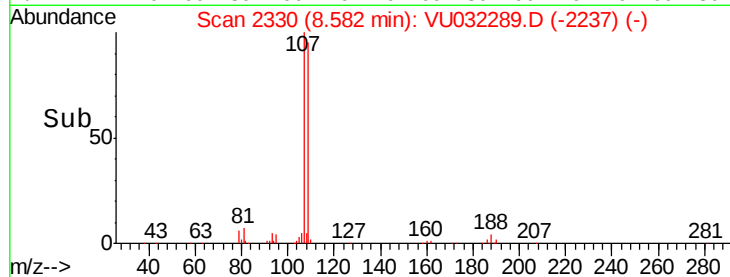
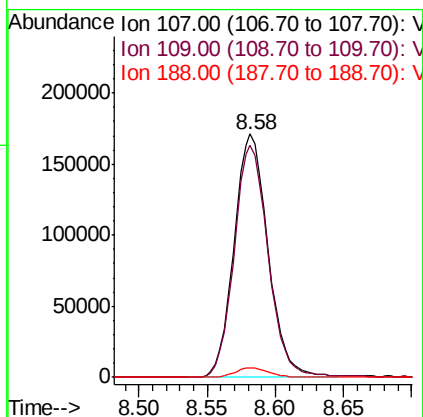
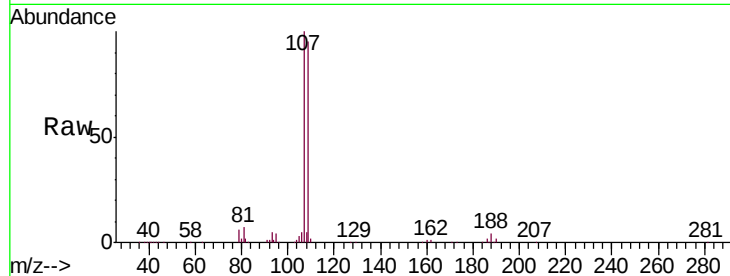




#50
 1,2-Dibromoethane
 Concen: 54.762 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

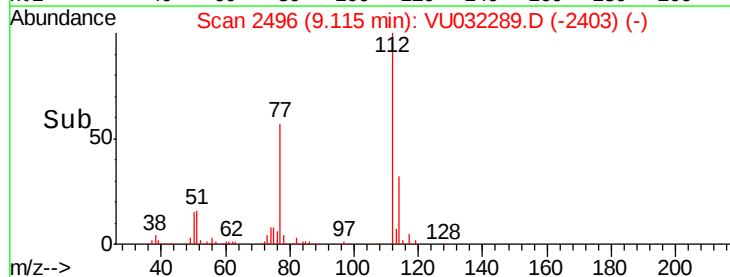
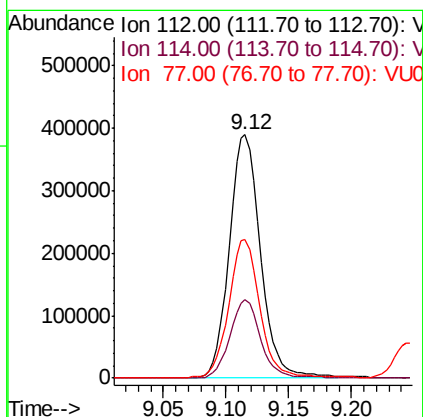
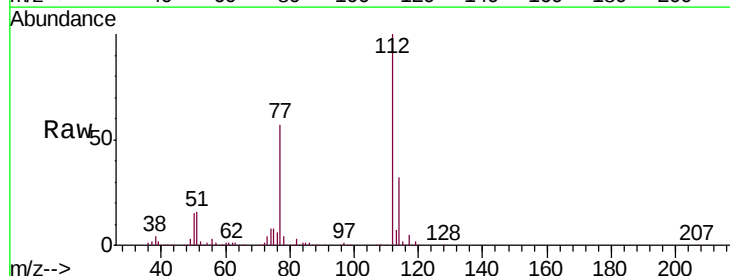
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

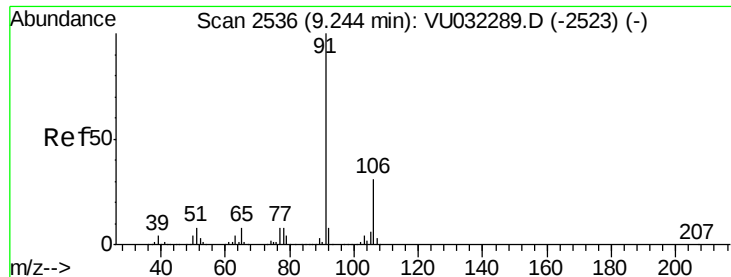
Tgt Ion:107 Resp: 296273
 Ion Ratio Lower Upper
 107 100
 109 95.2 66.6 123.8
 188 4.0 3.2 4.8



#51
 Chlorobenzene
 Concen: 48.022 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU032289.D
 Acq: 24 May 2019 04:44

Tgt Ion:112 Resp: 675495
 Ion Ratio Lower Upper
 112 100
 114 32.1 22.5 41.7
 77 57.2 45.8 68.6





#52

Ethylbenzene

Concen: 47.364 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

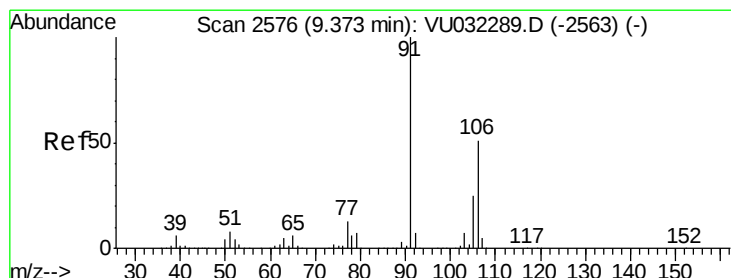
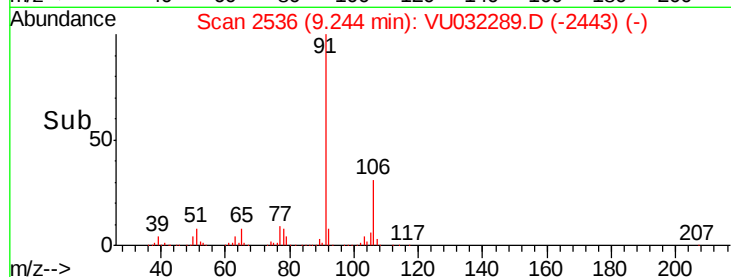
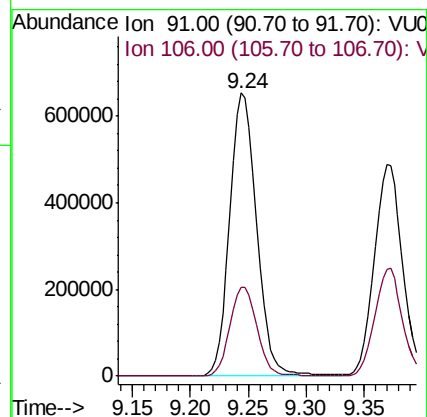
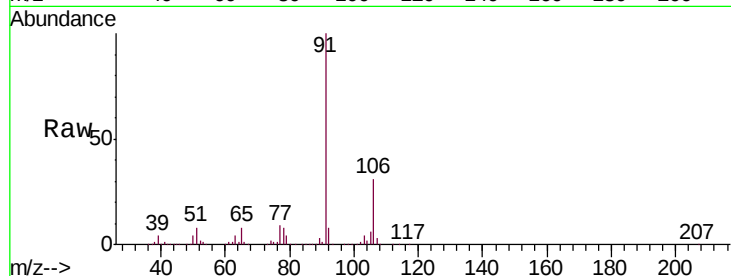
VSTD05054

Tgt Ion: 91 Resp: 1052265

Ion Ratio Lower Upper

91 100

106 31.5 22.0 41.0



#53

m,p-Xylene

Concen: 47.222 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032289.D

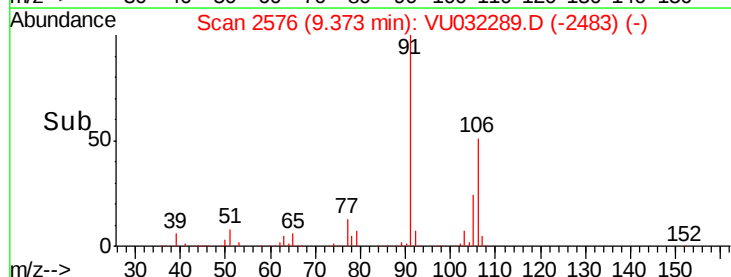
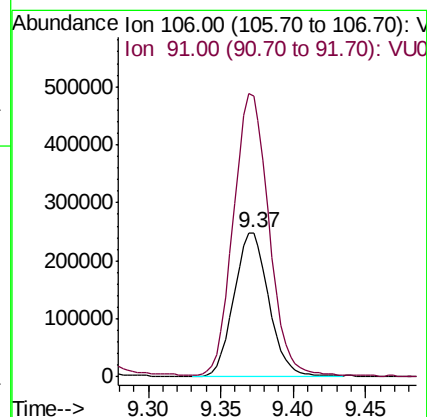
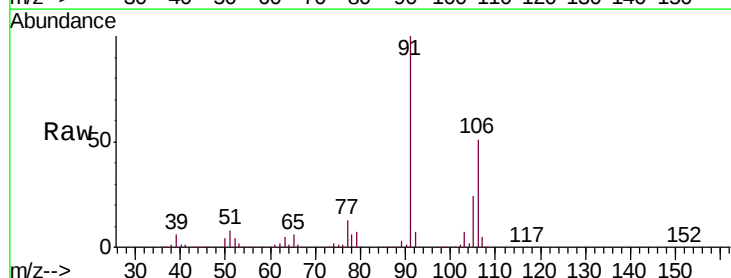
Acq: 24 May 2019 04:44

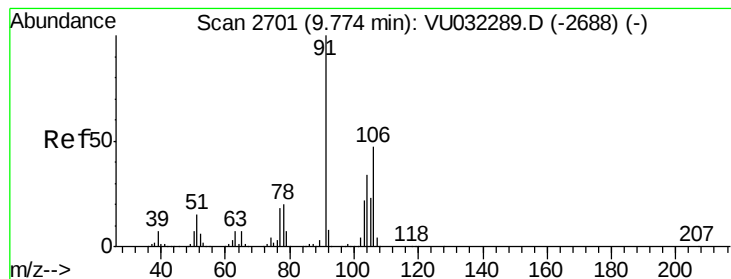
Tgt Ion: 106 Resp: 411534

Ion Ratio Lower Upper

106 100

91 195.0 136.5 253.5





#54

o-xylene

Concen: 49.457 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

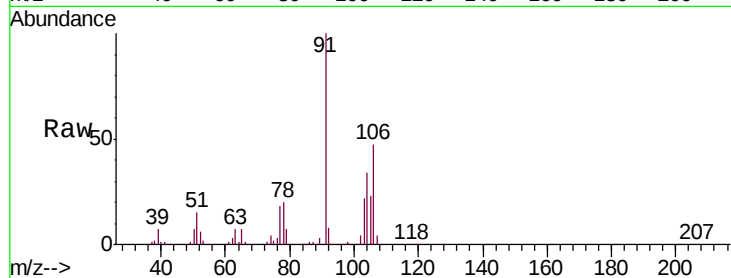
VSTD05054

Tgt Ion:106 Resp: 428027

Ion Ratio Lower Upper

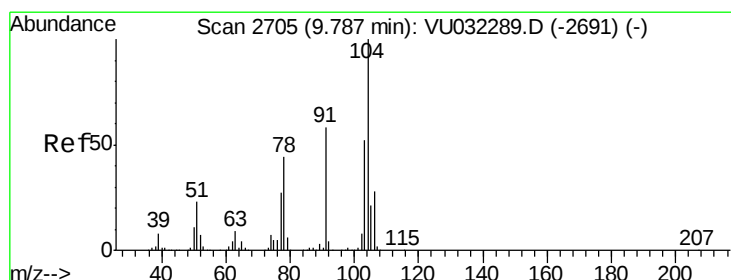
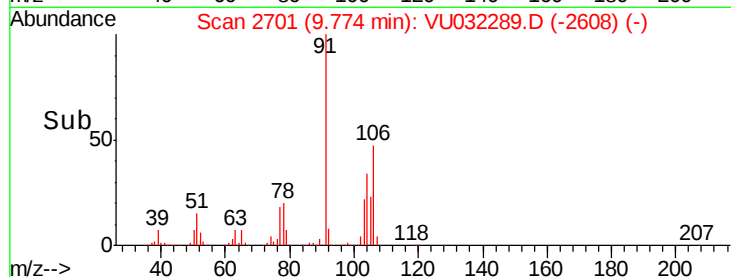
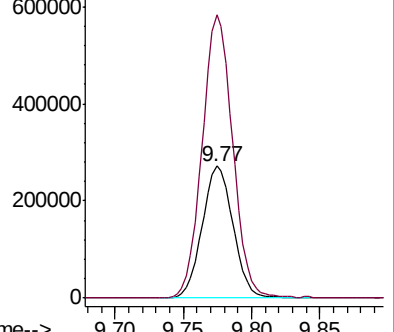
106 100

91 214.7 150.3 279.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.351 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032289.D

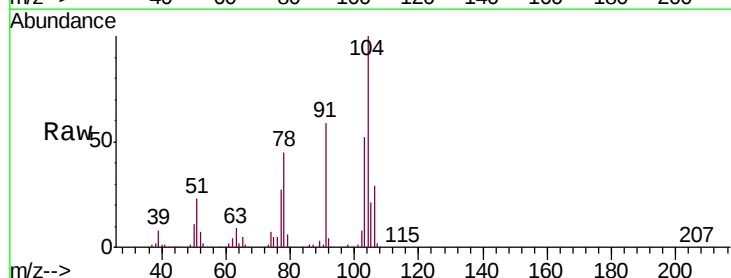
Acq: 24 May 2019 04:44

Tgt Ion:104 Resp: 765196

Ion Ratio Lower Upper

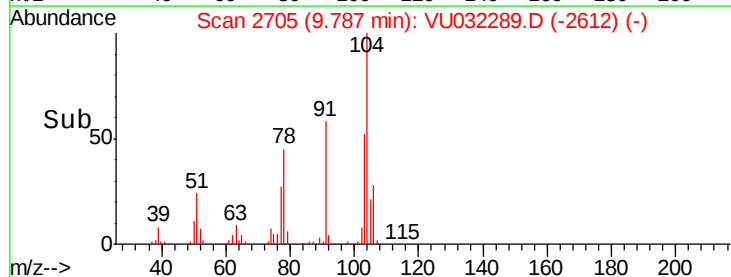
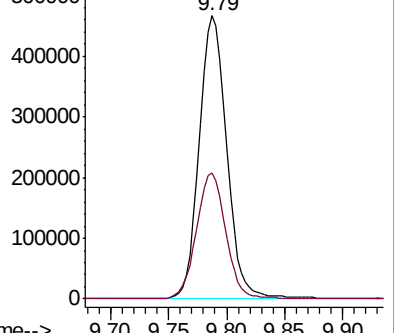
104 100

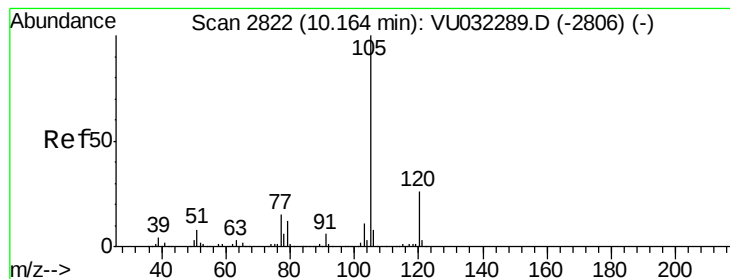
78 44.5 31.1 57.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 46.036 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

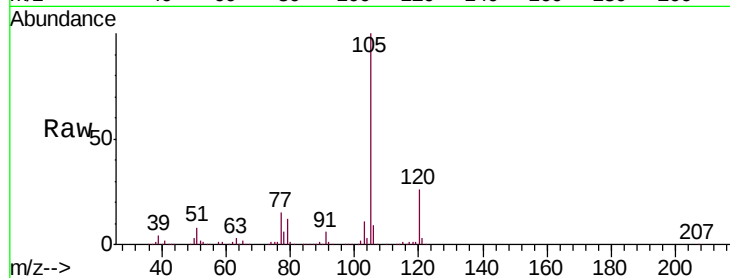
Tgt Ion:105 Resp: 1013014

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.4

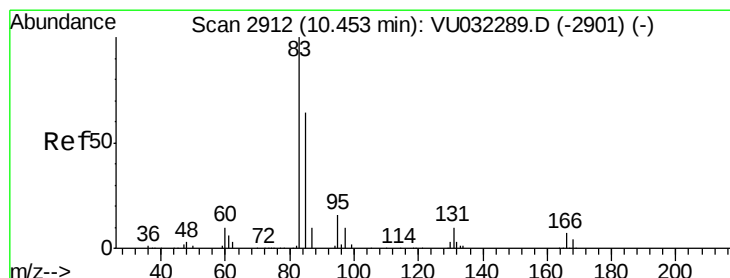
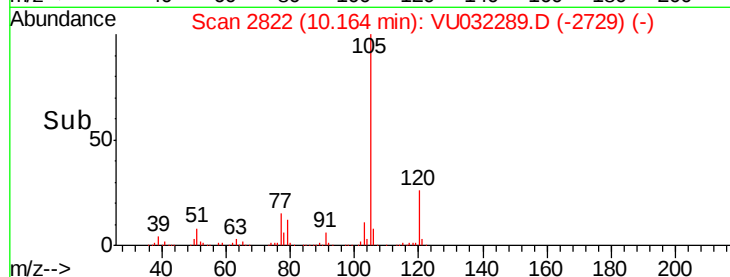
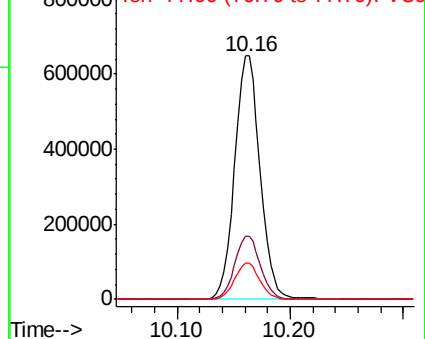
77 14.7 11.8 17.6



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: 54.076 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

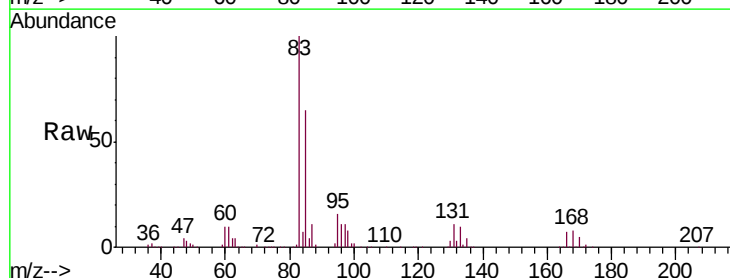
Tgt Ion: 83 Resp: 466357

Ion Ratio Lower Upper

83 100

85 64.8 45.4 84.2

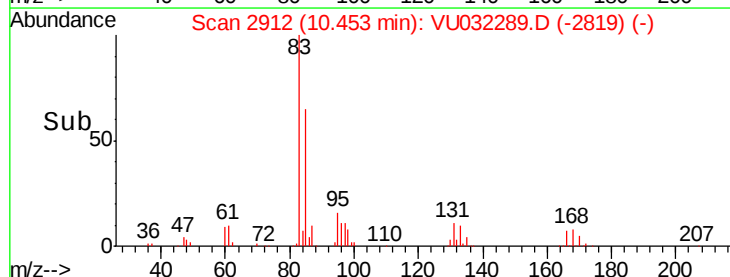
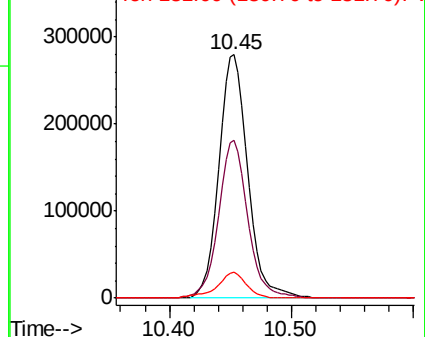
131 10.5 8.4 12.6

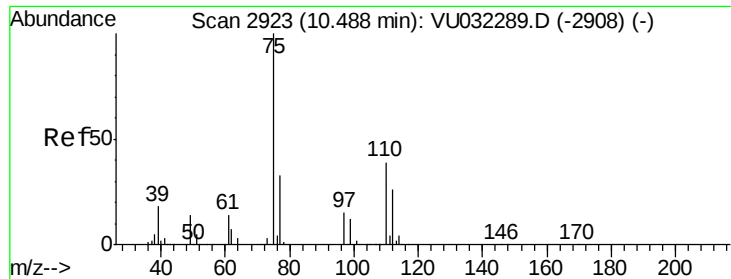


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 55.230 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

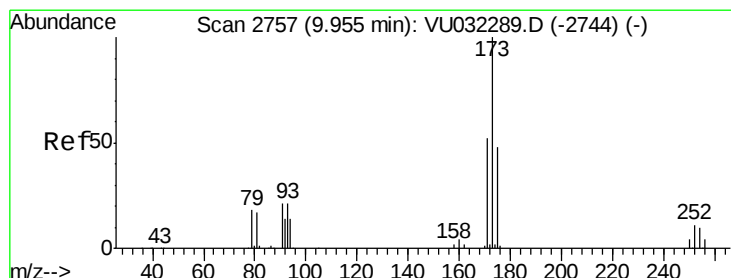
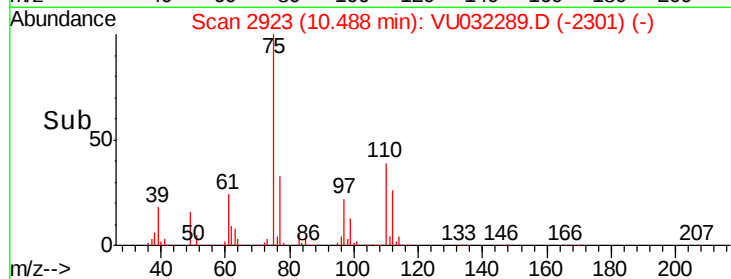
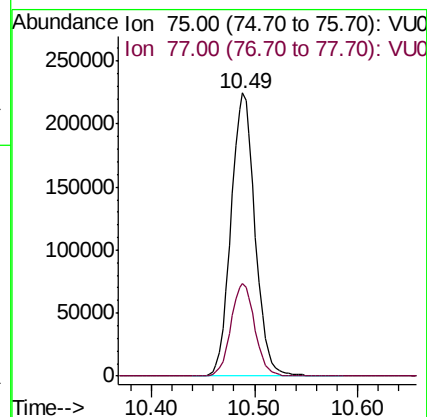
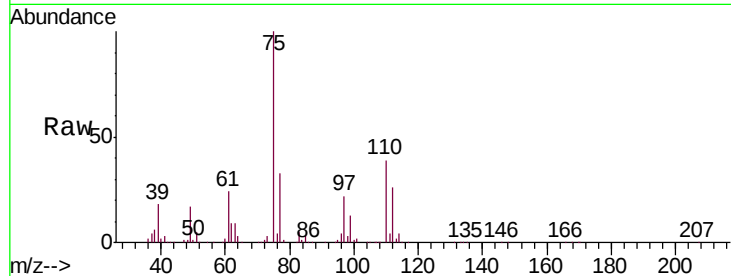
VSTD05054

Tgt Ion: 75 Resp: 364744

Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5



#61

Bromoform

Concen: 53.501 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

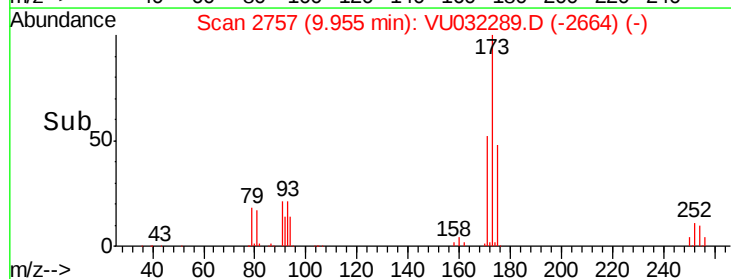
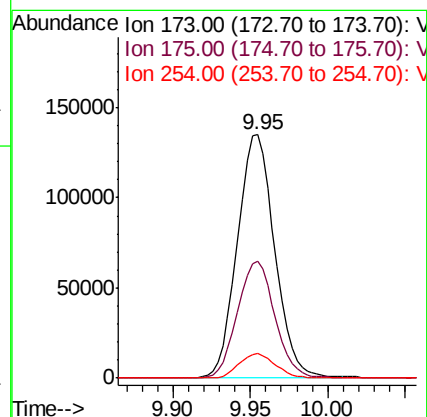
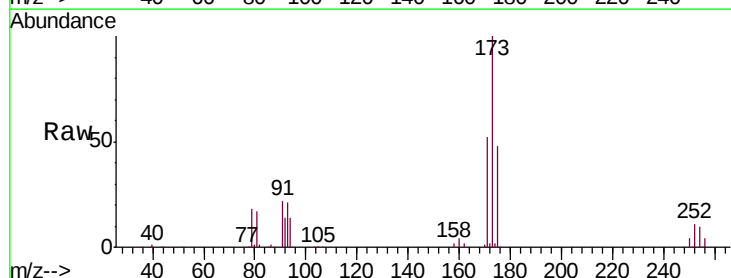
Tgt Ion: 173 Resp: 226745

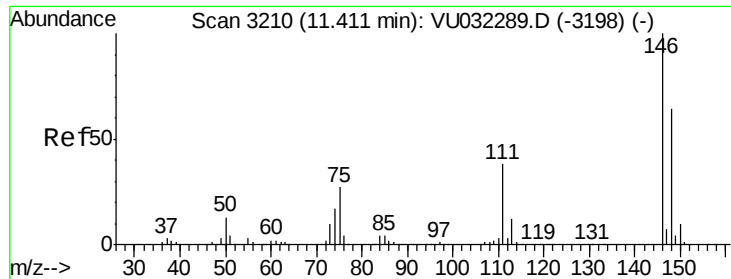
Ion Ratio Lower Upper

173 100

175 48.2 38.6 57.8

254 9.8 7.8 11.8





#62

1,3-Dichlorobenzene

Concen: 47.450 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

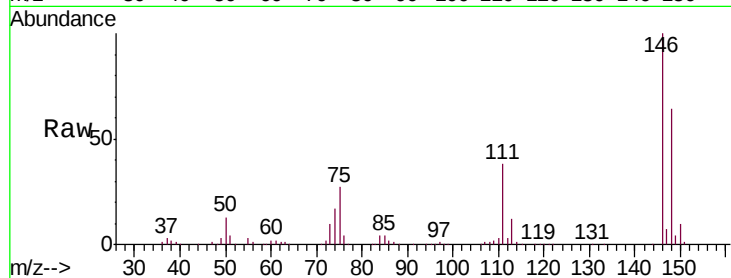
Tgt Ion:146 Resp: 501457

Ion Ratio Lower Upper

146 100

111 37.7 26.4 49.0

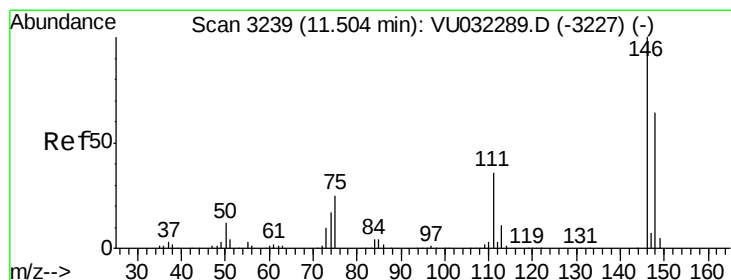
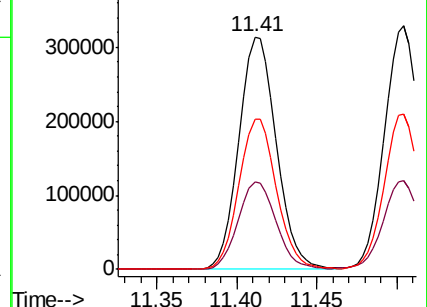
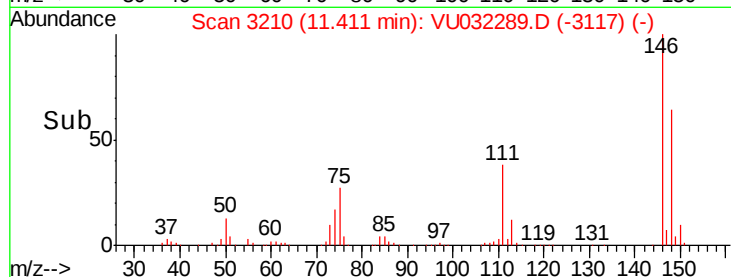
148 64.4 45.1 83.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.740 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

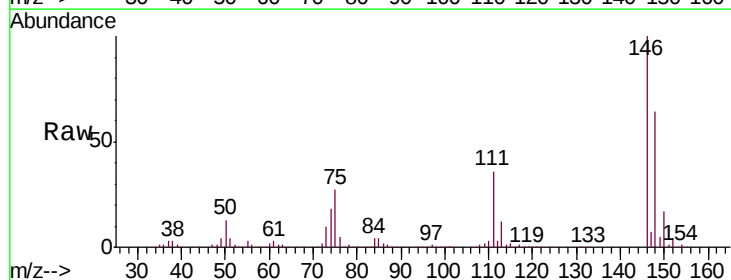
Tgt Ion:146 Resp: 520750

Ion Ratio Lower Upper

146 100

111 36.2 25.3 47.1

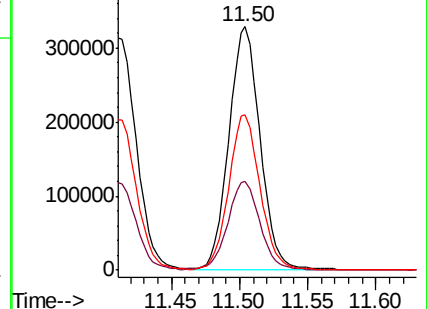
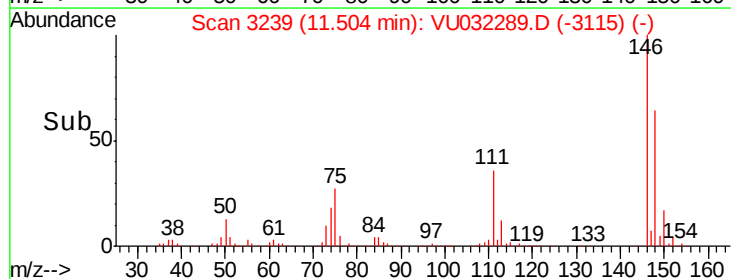
148 63.9 44.7 83.1

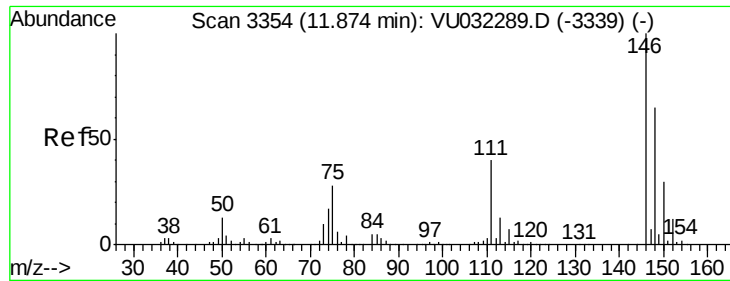


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 49.811 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

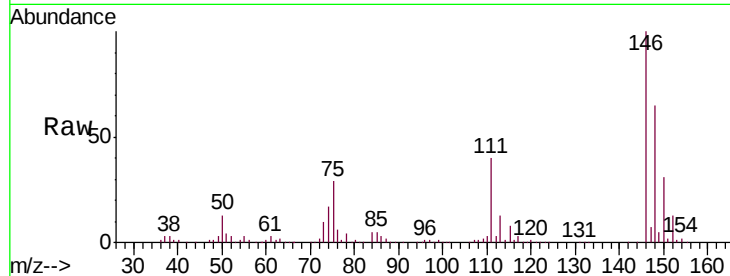
Tgt Ion:146 Resp: 555723

Ion Ratio Lower Upper

146 100

111 39.6 31.7 47.5

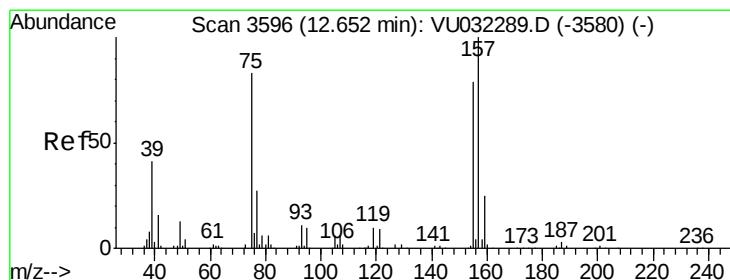
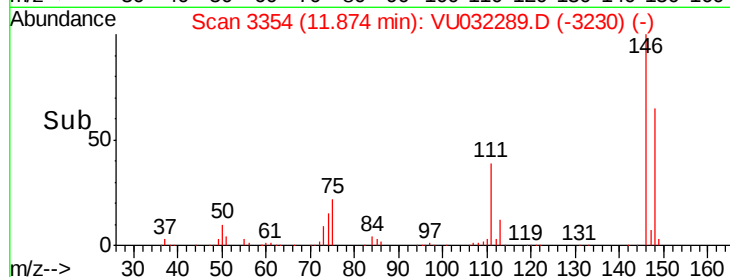
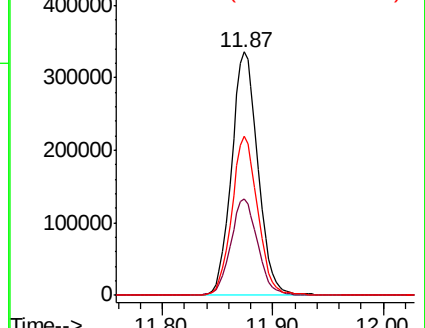
148 65.2 52.2 78.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 56.217 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

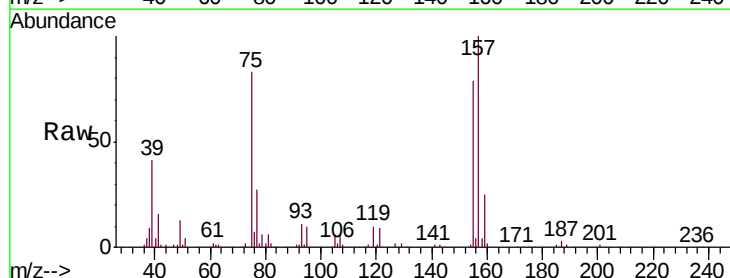
Tgt Ion: 75 Resp: 100323

Ion Ratio Lower Upper

75 100

155 94.8 75.8 113.8

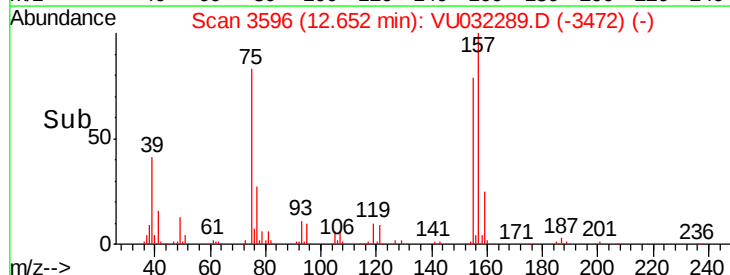
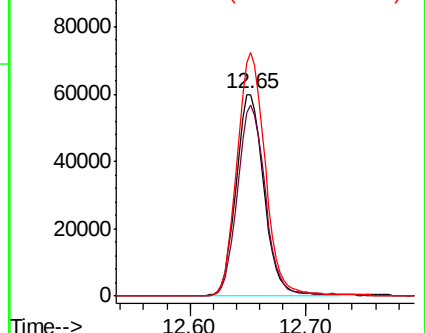
157 120.5 96.4 144.6

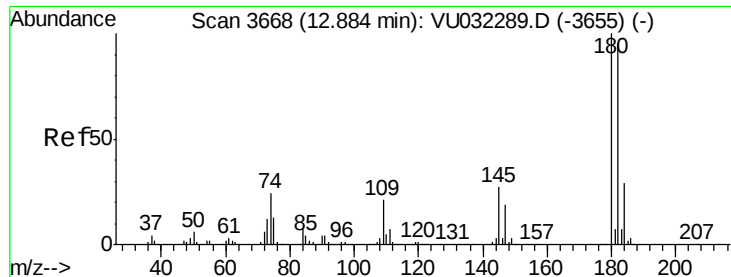


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

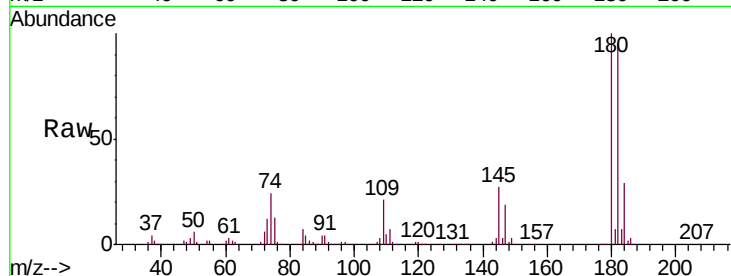




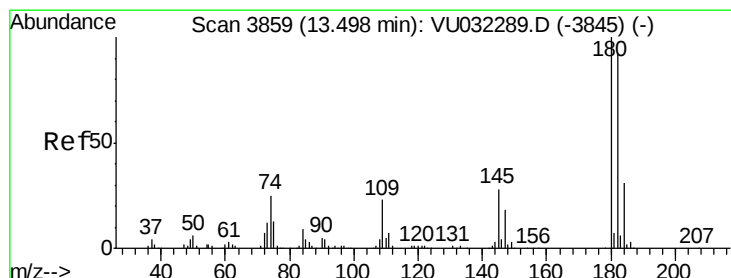
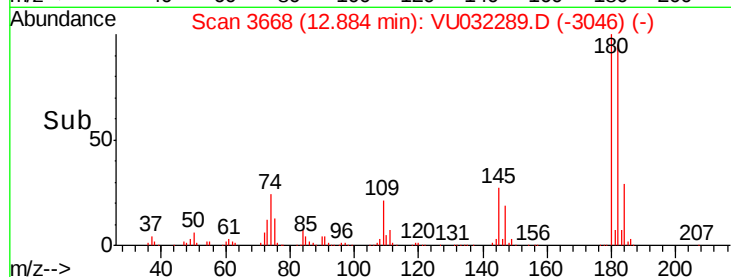
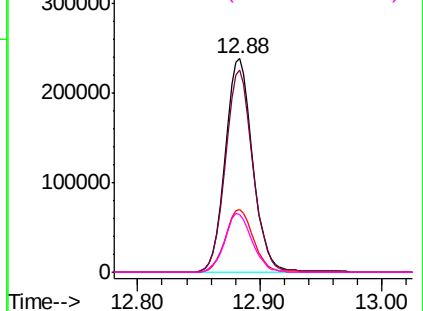
#67
1,3,5-Trichlorobenzene
Concen: 46.829 ug/L
RT: 12.88 min Scan# 3668
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

Tgt Ion:180 Resp: 376220
Ion Ratio Lower Upper
180 100
182 94.4 75.5 113.3
184 30.3 24.2 36.4
145 27.5 22.0 33.0

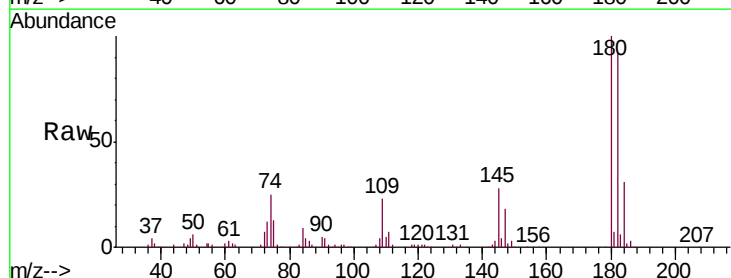


Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V
Ion 145.00 (144.70 to 145.70): V

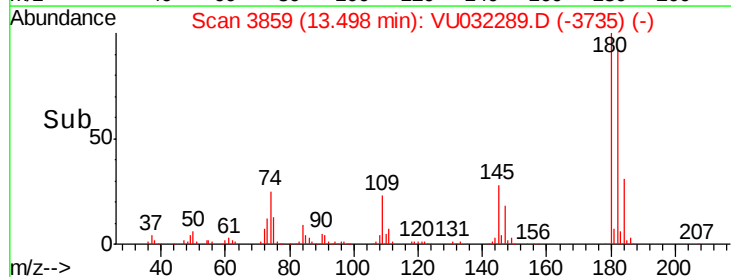
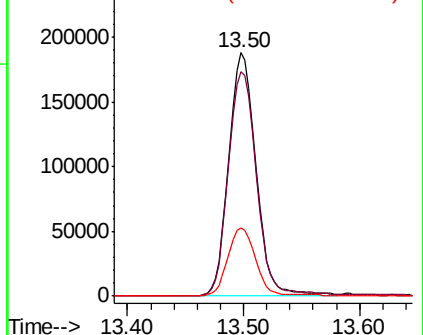


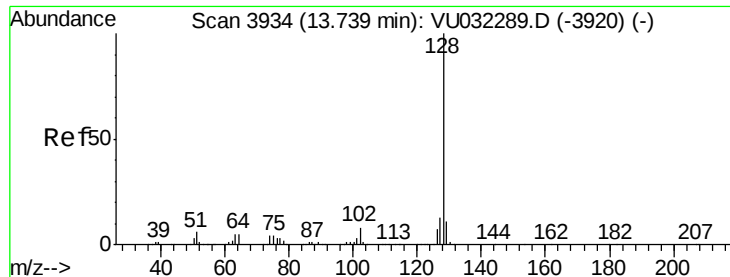
#68
1,2,4-trichlorobenzene
Concen: 48.801 ug/L
RT: 13.50 min Scan# 3859
Delta R.T. 0.00 min
Lab File: VU032289.D
Acq: 24 May 2019 04:44

Tgt Ion:180 Resp: 306276
Ion Ratio Lower Upper
180 100
182 94.1 75.3 112.9
145 28.8 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: 55.337 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Instrument :

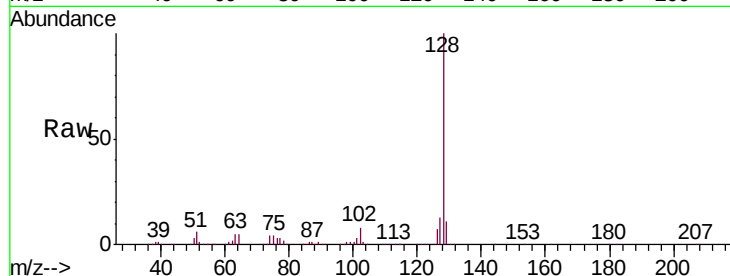
MSVOA_U

ClientSampleId :

VSTD05054

Tgt Ion:128 Resp: 1073387

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.4	8.3	12.5

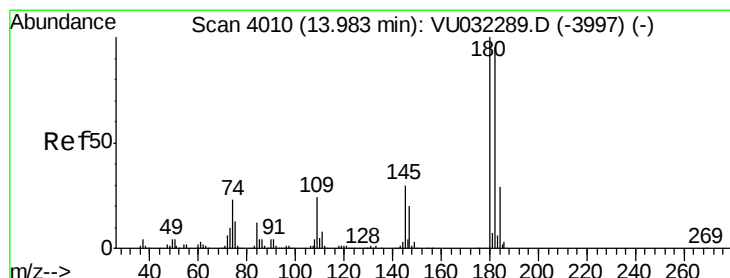
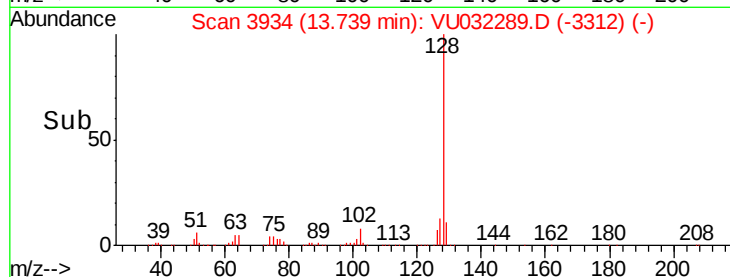
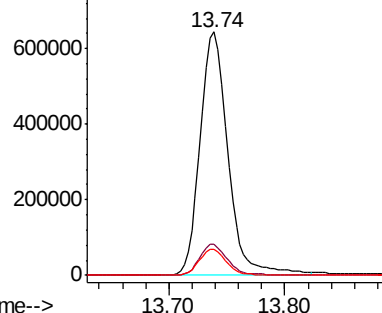


Abundance

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: 49.547 ug/L

RT: 13.98 min Scan# 4010

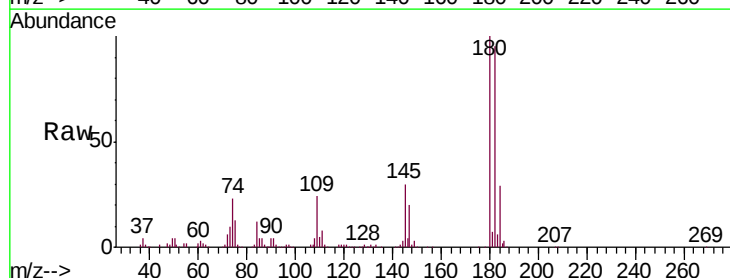
Delta R.T. 0.00 min

Lab File: VU032289.D

Acq: 24 May 2019 04:44

Tgt Ion:180 Resp: 350702

Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.2	115.8
145	29.9	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

