

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120420\
 Data File : VV019483.D
 Acq On : 04 Dec 2020 17:11
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

Quant Time: Dec 05 02:42:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM112320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Dec 05 02:40:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	307683	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	302960	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	164473	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	145218	47.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.52%
7) Chloroethane-d5	1.57	69	125057	50.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.00%
11) 1,1-Dichloroethene-d2	2.12	63	280371	51.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.52%
21) 2-Butanone-d5	3.90	46	182188	97.27	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.27%
24) Chloroform-d	4.37	84	274582	55.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.54%
26) 1,2-Dichloroethane-d4	5.05	65	186392	57.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	114.64%
32) Benzene-d6	5.07	84	521005	58.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	116.34%
36) 1,2-Dichloropropane-d6	6.09	67	175536	58.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	117.80%
41) Toluene-d8	7.33	98	463857	57.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	115.62%
43) trans-1,3-Dichloropropene-	7.64	79	83152	57.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	115.52%
47) 2-Hexanone-d5	8.10	63	112552	95.85	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.85%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	215142	55.77	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	111.54%
64) 1,2-Dichlorobenzene-d4	11.64	152	161751	50.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.28%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	100109	40.254	ug/L 99
3) Chloromethane	1.25	50	134716	40.280	ug/L 100
5) Vinyl chloride	1.32	62	136953	42.856	ug/L 99
6) Bromomethane	1.53	94	117846	56.566	ug/L 99
8) Chloroethane	1.59	64	89821	44.164	ug/L 100
9) Trichlorofluoromethane	1.76	101	182592	45.508	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	101939	47.245	ug/L 94
12) 1,1-Dichloroethene	2.13	96	98345	43.780	ug/L 85
13) Acetone	2.18	43	146556	102.336	ug/L 94
14) Carbon disulfide	2.31	76	309583	47.481	ug/L 100
15) Methyl Acetate	2.44	43	158250	54.576	ug/L 95
16) Methylene chloride	2.52	84	130557	50.177	ug/L 90
17) trans-1,2-Dichloroethene	2.78	96	112194	50.498	ug/L 91
18) Methyl tert-butyl Ether	2.78	73	380289	53.828	ug/L 96
19) 1,1-Dichloroethane	3.21	63	252166	55.332	ug/L 98
20) cis-1,2-Dichloroethene	3.94	96	123889	50.742	ug/L 94
22) 2-Butanone	3.98	43	222362	117.077	ug/L 92

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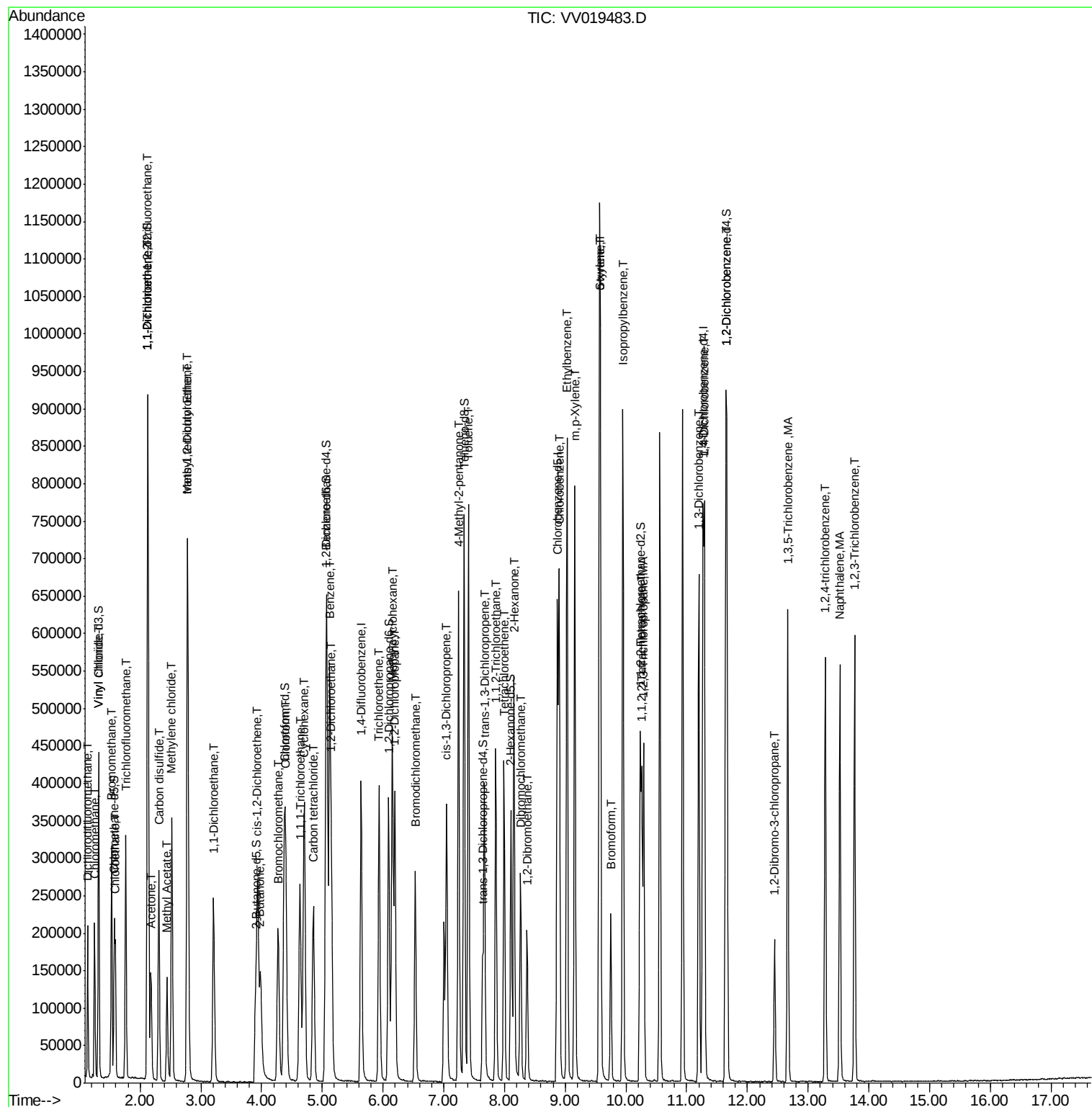
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	62505	48.339	uq/L	89
25) Chloroform	4.40	83	245432	53.275	uq/L	98
27) 1,2-Dichloroethane	5.15	62	203224	56.222	uq/L	95
29) Cyclohexane	4.70	56	196496	61.959	uq/L	94
30) 1,1,1-Trichloroethane	4.63	97	205080	56.040	uq/L	98
31) Carbon tetrachloride	4.85	117	168813	53.734	uq/L	99
33) Benzene	5.12	78	512966	56.578	uq/L	100
34) Trichloroethene	5.94	95	133792	52.916	uq/L	95
35) Methylcyclohexane	6.15	83	174136	58.529	uq/L	96
37) 1,2-Dichloropropane	6.20	63	147399	58.942	uq/L	97
38) Bromodichloromethane	6.53	83	183166	55.245	uq/L	98
39) cis-1,3-Dichloropropene	7.05	75	211395	57.228	uq/L	99
40) 4-Methyl-2-pentanone	7.24	43	438349	124.309	uq/L	96
42) Toluene	7.41	91	526651	55.996	uq/L	99
44) trans-1,3-Dichloropropene	7.67	75	210153	57.115	uq/L	97
45) 1,1,2-Trichloroethane	7.86	97	126304	53.936	uq/L	99
46) Tetrachloroethene	7.99	164	86188	49.082	uq/L	93
48) 2-Hexanone	8.15	43	342296	122.560	uq/L	95
49) Dibromochloromethane	8.26	129	130047	50.248	uq/L	100
50) 1,2-Dibromoethane	8.37	107	128145	51.563	uq/L	100
51) Chlorobenzene	8.90	112	312259	50.326	uq/L	99
52) Ethylbenzene	9.03	91	565313	56.009	uq/L	98
53) m,p-Xylene	9.16	106	200023	53.561	uq/L	100
54) o-xylene	9.56	106	193526	53.222	uq/L	96
55) Styrene	9.58	104	360921	55.447	uq/L	98
56) Isopropylbenzene	9.95	105	527425	55.363	uq/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	194219	54.261	uq/L	99
59) 1,2,3-Trichloropropane	10.29	75	174734	53.192	uq/L	99
61) Bromoform	9.75	173	89872	47.796	uq/L	99
62) 1,3-Dichlorobenzene	11.20	146	240630	50.290	uq/L	98
63) 1,4-Dichlorobenzene	11.29	146	245354	48.786	uq/L	98
65) 1,2-Dichlorobenzene	11.66	146	246064	50.090	uq/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	45760	53.832	uq/L	88
67) 1,3,5-Trichlorobenzene	12.67	180	172057	49.398	uq/L	98
68) 1,2,4-trichlorobenzene	13.28	180	151875	49.250	uq/L	99
69) Naphthalene	13.52	128	393089	50.129	uq/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	160717	49.861	uq/L	99

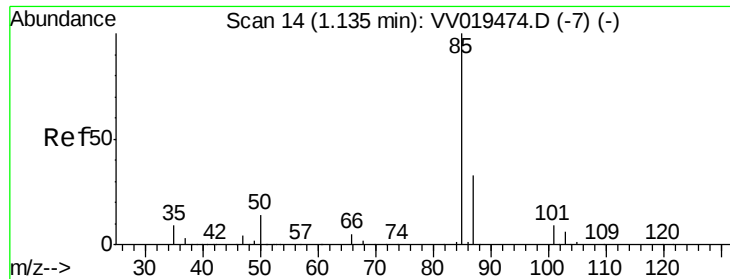
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 40.254 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

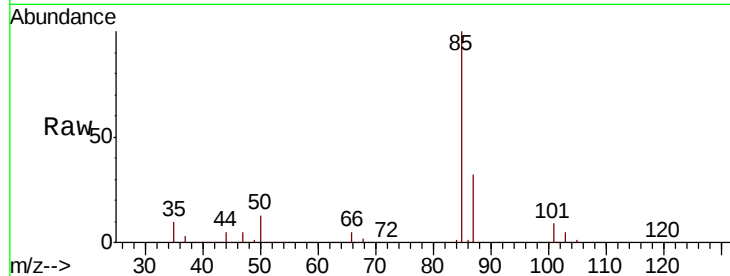
VSTD05078

Tot Ion: 85 Resp: 100109

Ion Ratio Lower Upper

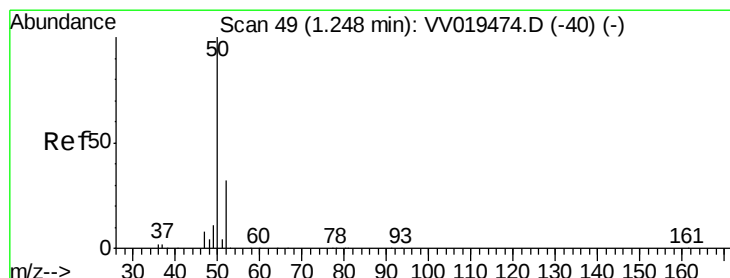
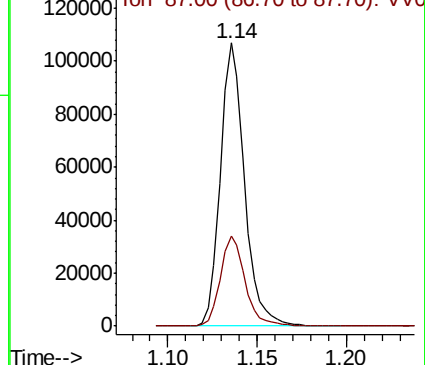
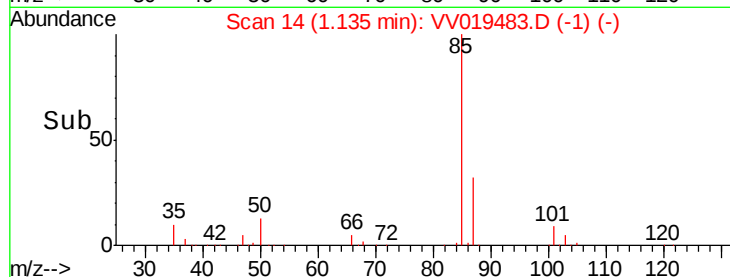
85 100

87 32.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VV019483.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV019483.D (-1) (-)



#3

Chloromethane

Concen: 40.280 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV019483.D

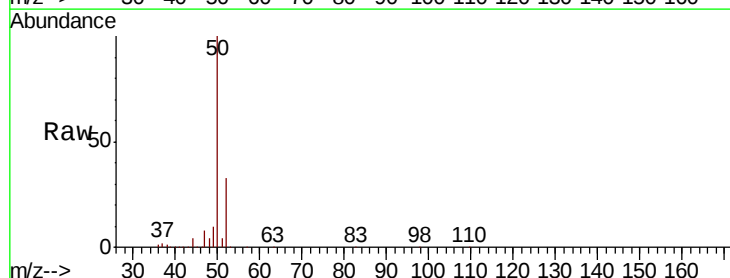
Acq: 04 Dec 2020 17:11

Tgt Ion: 50 Resp: 134716

Ion Ratio Lower Upper

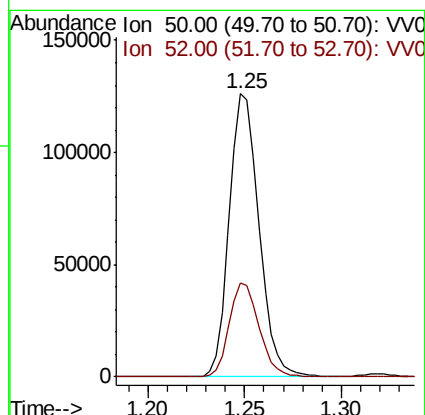
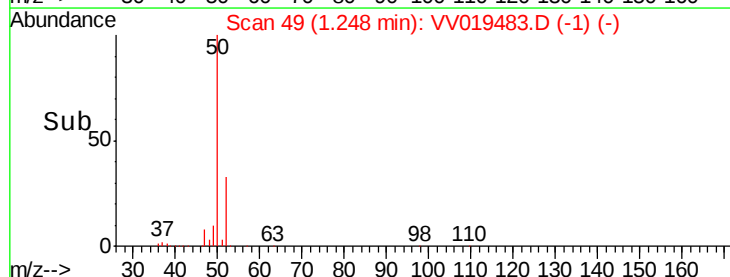
50 100

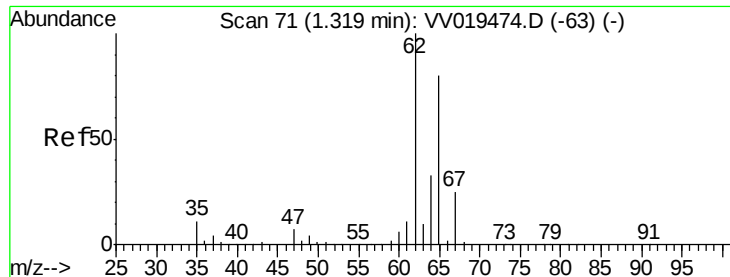
52 33.2 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV019483.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV019483.D (-1) (-)





#5

Vinyl chloride

Concen: 42.856 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

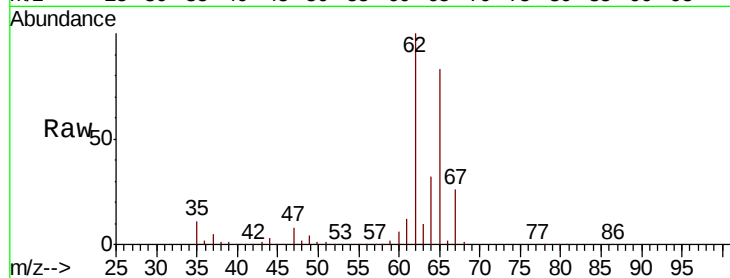
VSTD05078

Tot Ion: 62 Resp: 136953

Ion Ratio Lower Upper

62 100

64 32.2 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

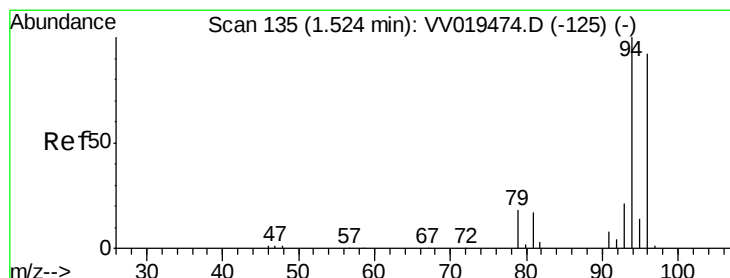
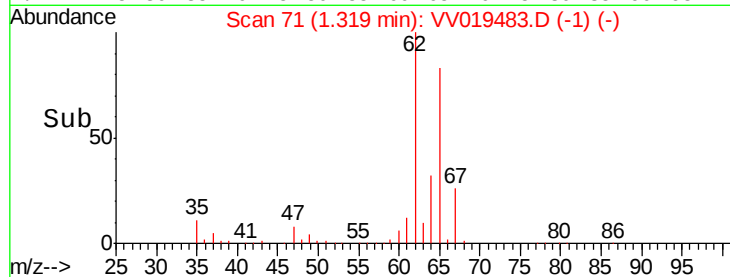
150000

100000

50000

0

Time--> 1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 56.566 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV019483.D

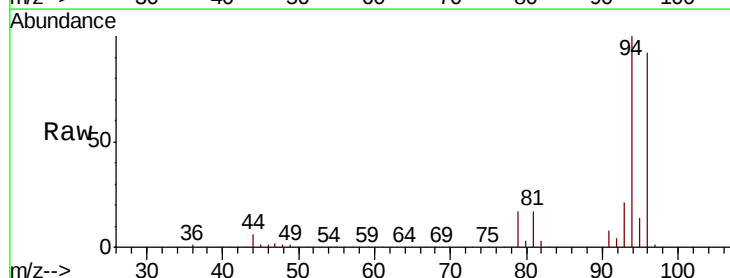
Acq: 04 Dec 2020 17:11

Tgt Ion: 94 Resp: 117846

Ion Ratio Lower Upper

94 100

96 92.3 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

120000

100000

80000

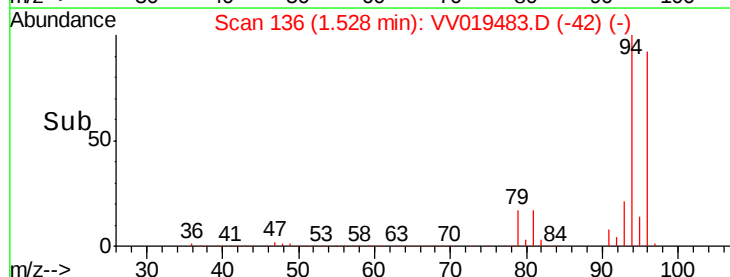
60000

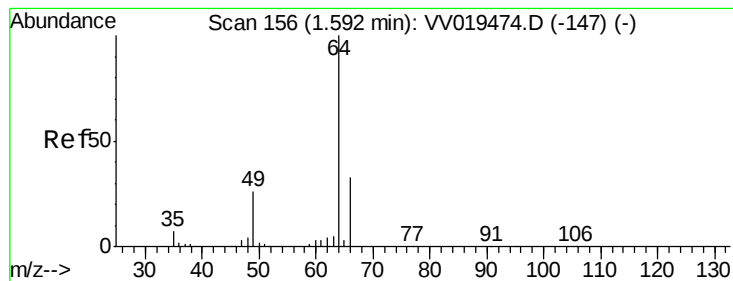
40000

20000

0

Time--> 1.50 1.55 1.60





#8

Chloroethane

Concen: 44.164 ug/L

RT: 1.59 min Scan# 156

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

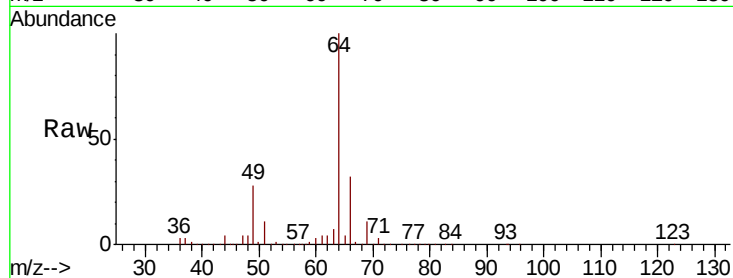
VSTD05078

Tot Ion: 64 Resp: 89821

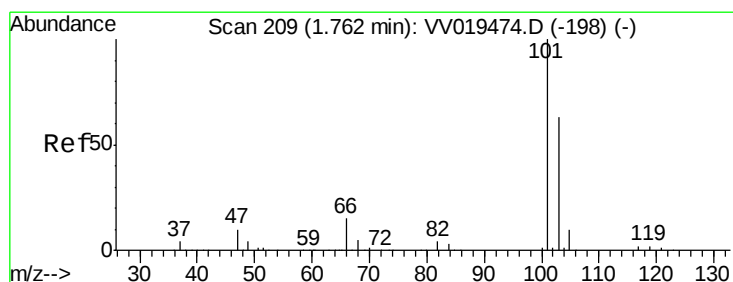
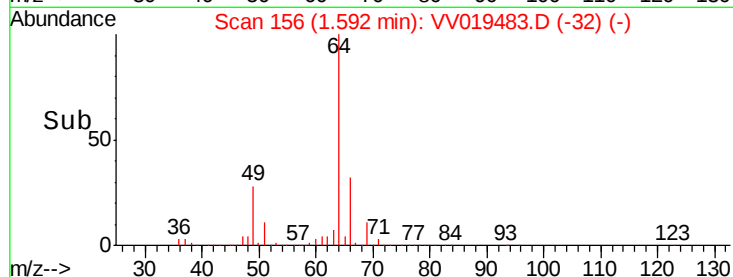
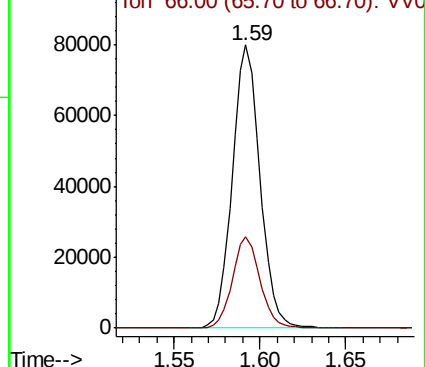
Ion Ratio Lower Upper

64 100

66 32.3 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV019474.D (-147) (-)



#9

Trichlorofluoromethane

Concen: 45.508 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV019483.D

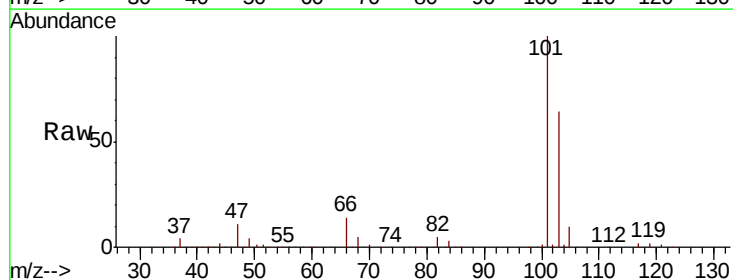
Acq: 04 Dec 2020 17:11

Tgt Ion:101 Resp: 182592

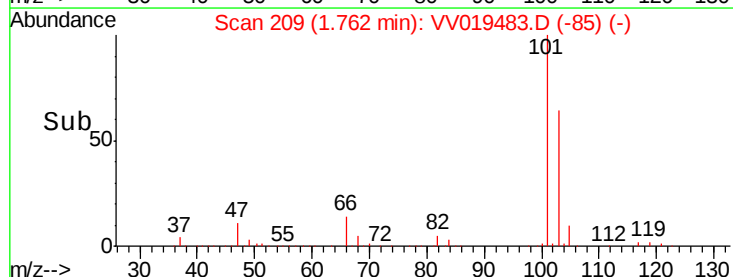
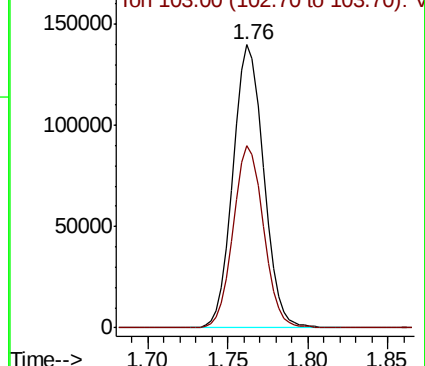
Ion Ratio Lower Upper

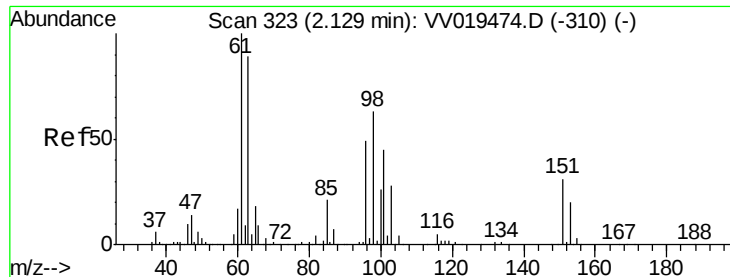
101 100

103 63.5 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV019474.D (-198) (-)





#10

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

Concen: 47.245 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV019483.D

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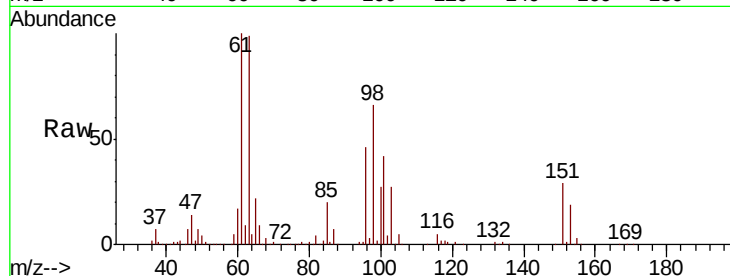
Tot Ion:101 Resp: 101939

Ion Ratio Lower Upper

101 100

85 46.6 35.5 53.3

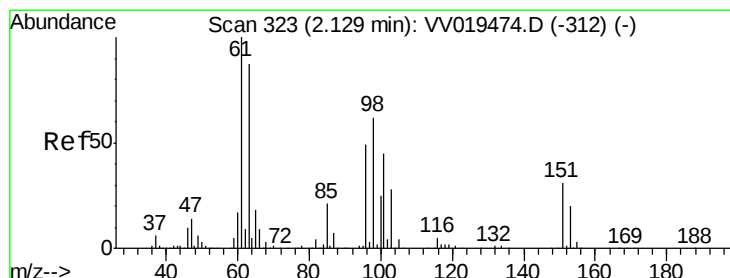
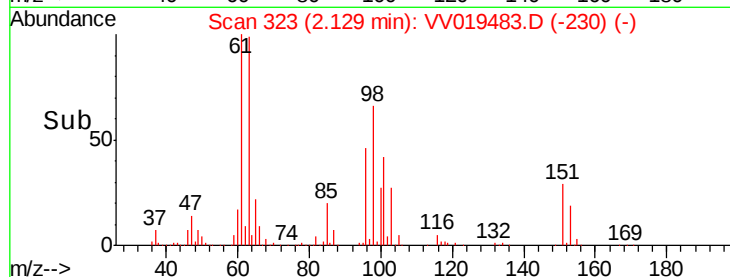
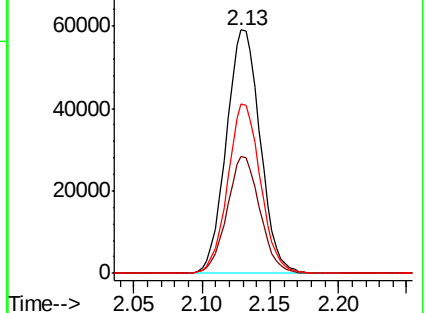
151 67.3 58.9 88.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 43.780 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

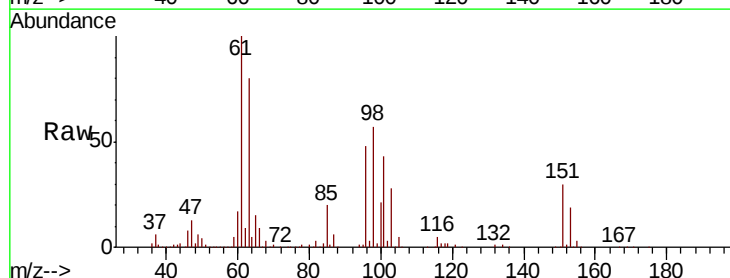
Tgt Ion: 96 Resp: 98345

Ion Ratio Lower Upper

96 100

61 209.6 130.0 241.4

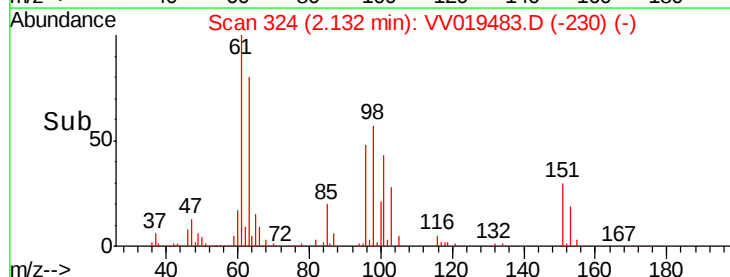
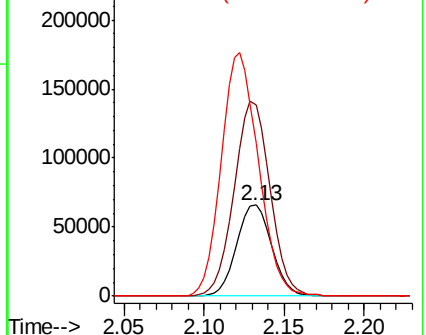
63 167.3 105.1 195.3

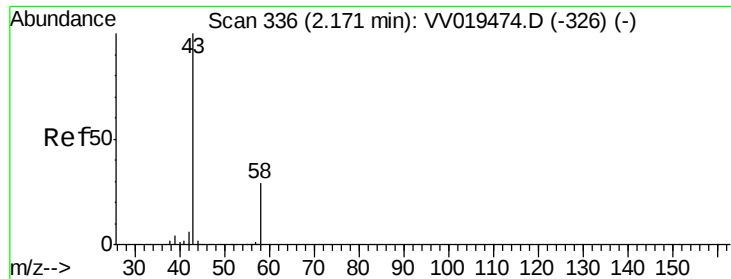


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 102.336 ug/L

RT: 2.18 min Scan# 338

Delta R.T. 0.01 min

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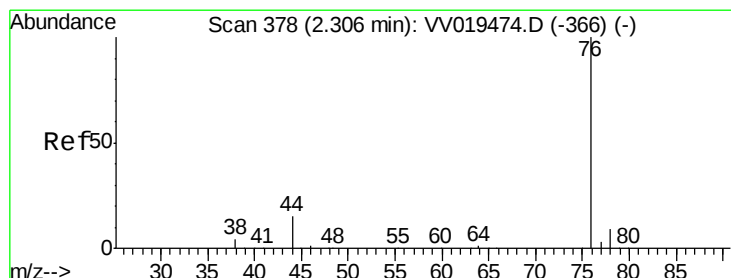
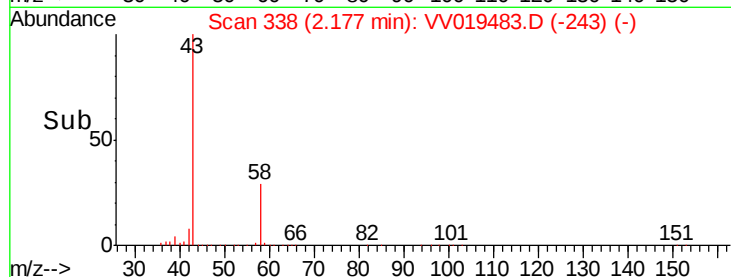
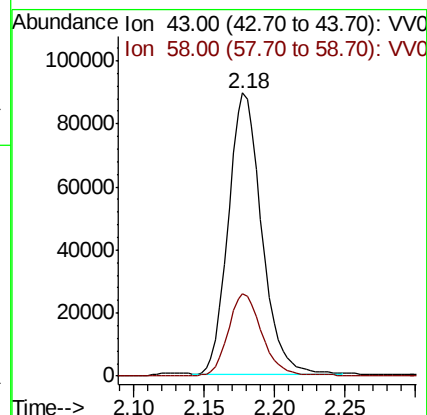
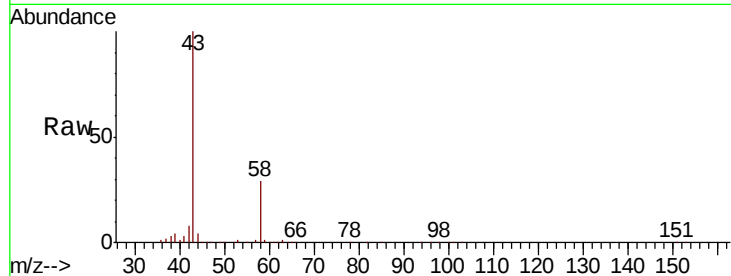
VSTD05078

Tot Ion: 43 Resp: 146556

Ion Ratio Lower Upper

43 100

58 29.7 0.0 66.4



#14

Carbon disulfide

Concen: 47.481 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV019483.D

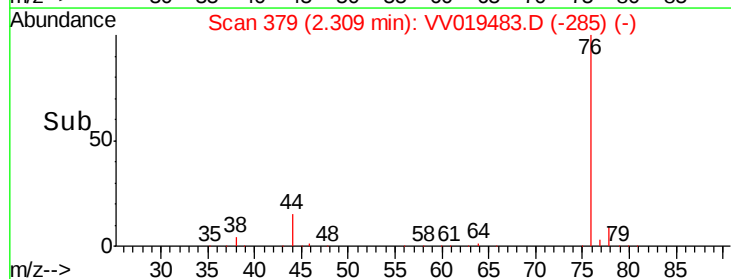
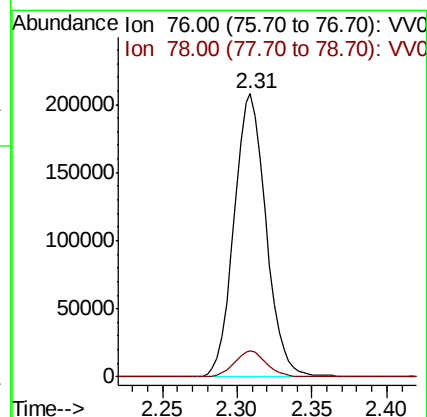
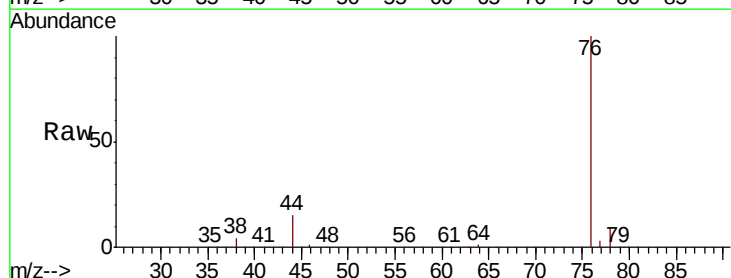
Acq: 04 Dec 2020 17:11

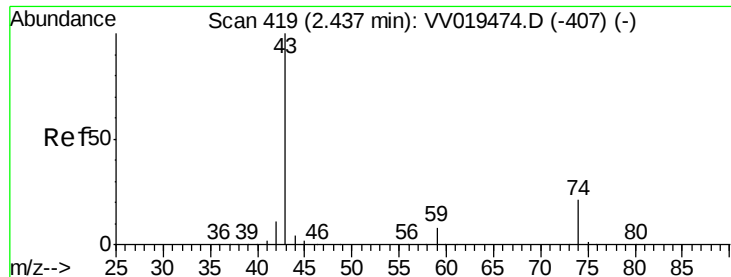
Tgt Ion: 76 Resp: 309583

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0





#15

Methvl Acetate

Concen: 54.576 ug/L

RT: 2.44 min Scan# 420

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampled :

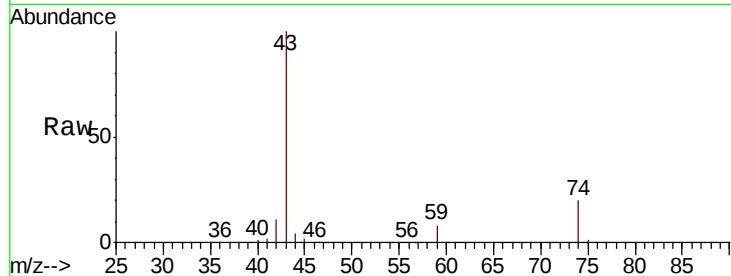
VSTD05078

Tot Ion: 43 Resp: 158250

Ion Ratio Lower Upper

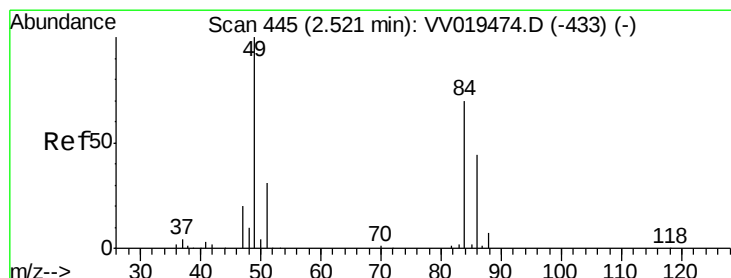
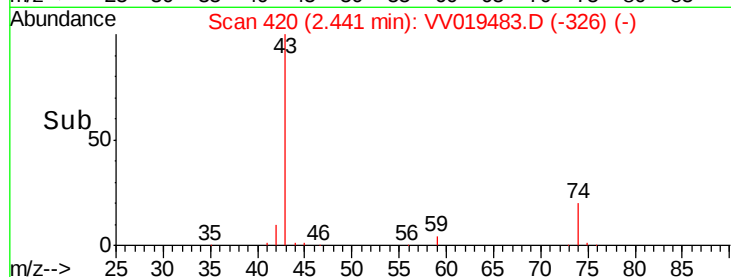
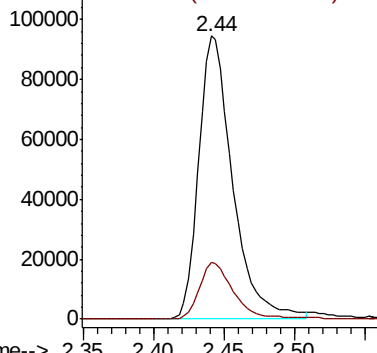
43 100

74 20.0 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 50.177 ug/L

RT: 2.52 min Scan# 445

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

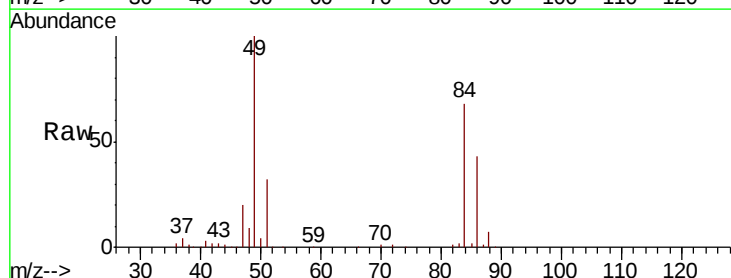
Tgt Ion: 84 Resp: 130557

Ion Ratio Lower Upper

84 100

86 63.8 45.8 85.2

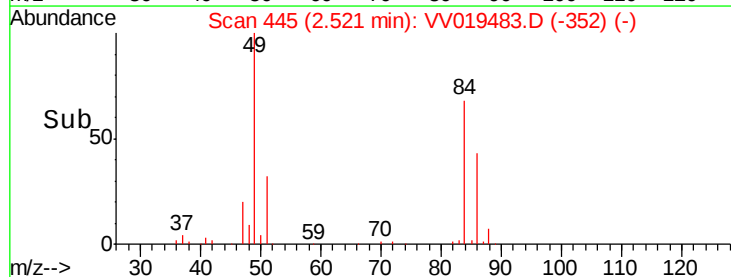
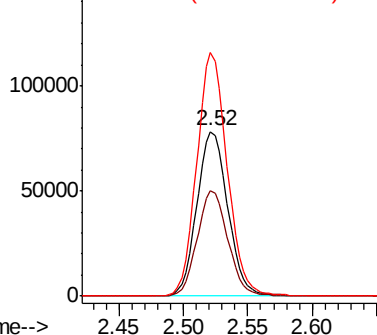
49 148.1 92.0 170.9

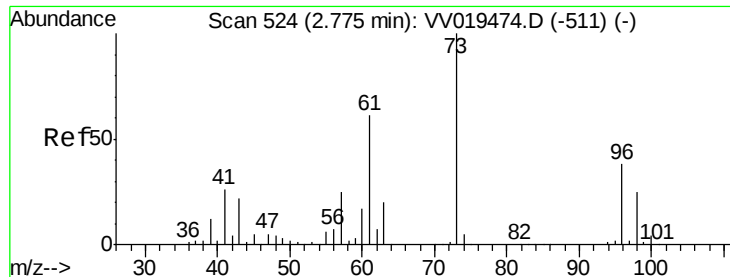


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

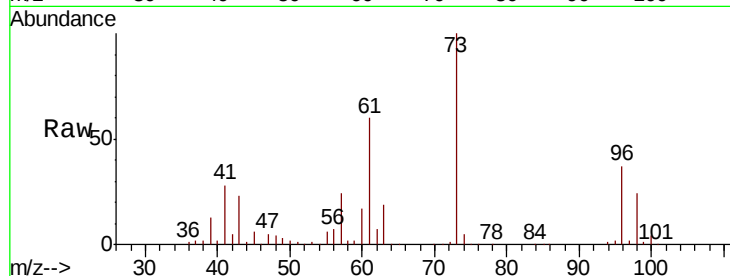




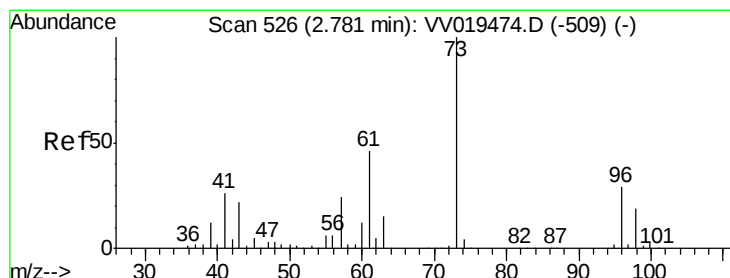
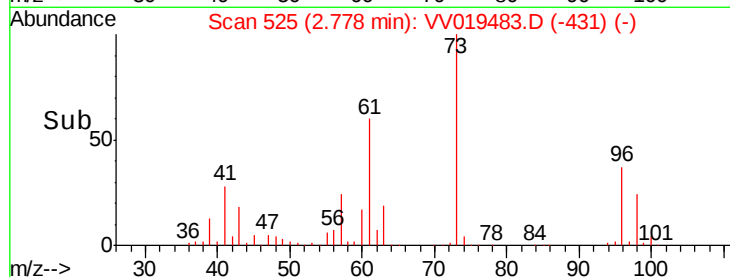
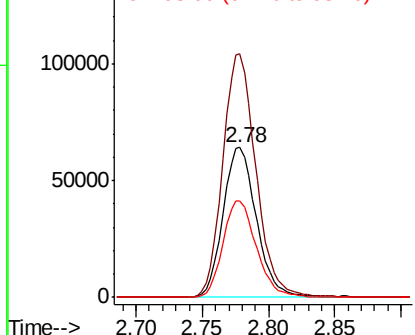
#17
trans-1,2-Dichloroethene
Concen: 50.498 ug/L
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV019483.D
Acq: 04 Dec 2020 17:11

Instrument :
MSVOA_V
ClientSampled :
VSTD05078

Tot Ion: 96 Resp: 112194
Ion Ratio Lower Upper
96 100
61 162.6 103.7 192.5
98 64.6 44.0 81.6

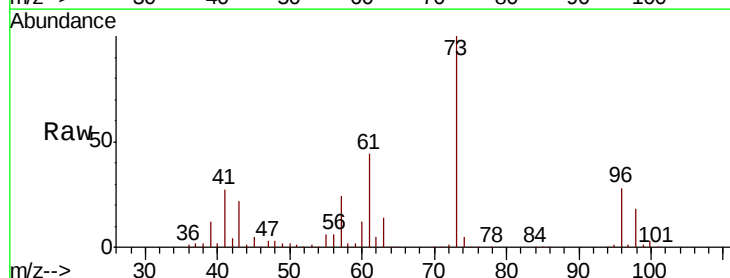


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

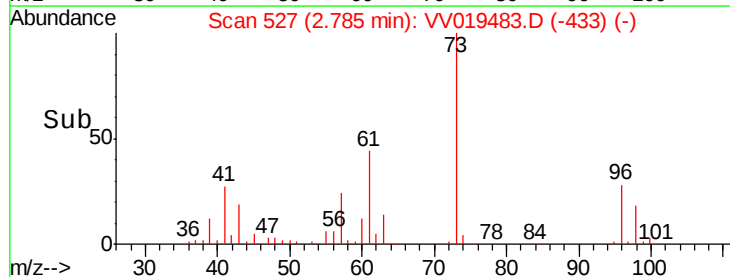
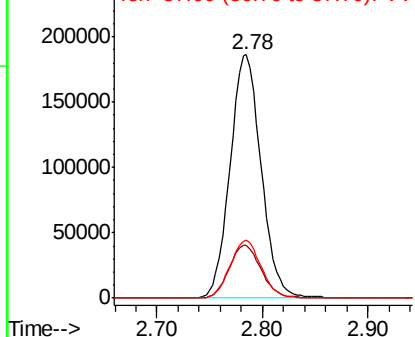


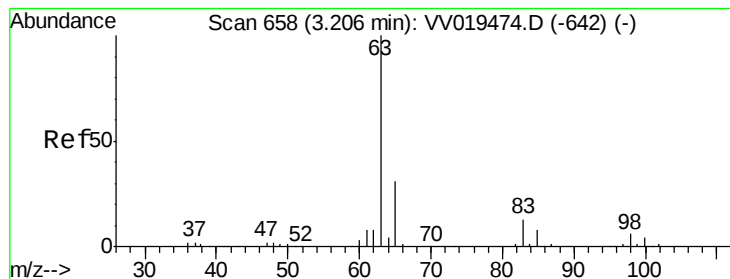
#18
Methyl tert-butyl Ether
Concen: 53.828 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV019483.D
Acq: 04 Dec 2020 17:11

Tgt Ion: 73 Resp: 380289
Ion Ratio Lower Upper
73 100
43 22.2 15.6 23.4
57 24.0 18.3 27.5



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





#19

1,1-Dichloroethane

Concen: 55.332 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

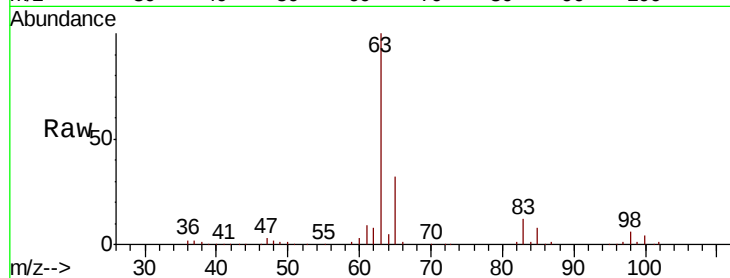
Tot Ion: 63 Resp: 252166

Ion Ratio Lower Upper

63 100

65 31.8 21.8 40.4

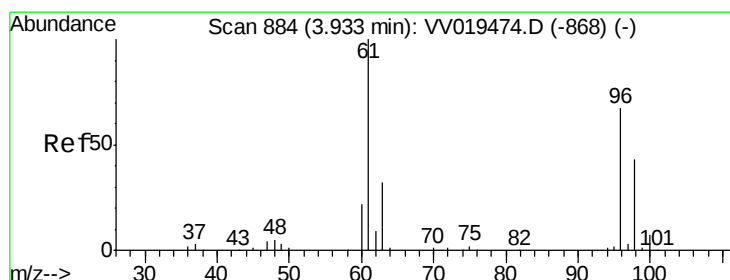
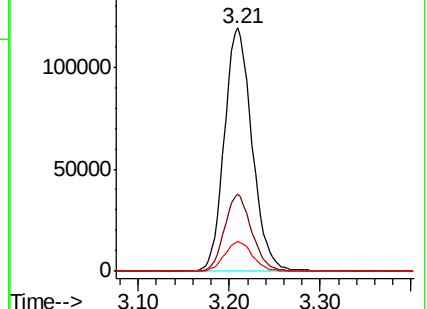
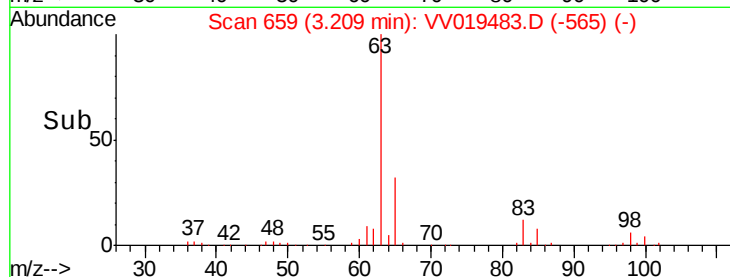
83 12.1 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VV019483.D (-565) (-)

Ion 65.00 (64.70 to 65.70): VV019483.D (-565) (-)

Ion 83.00 (82.70 to 83.70): VV019483.D (-565) (-)



#20

cis-1,2-Dichloroethene

Concen: 50.742 ug/L

RT: 3.94 min Scan# 885

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

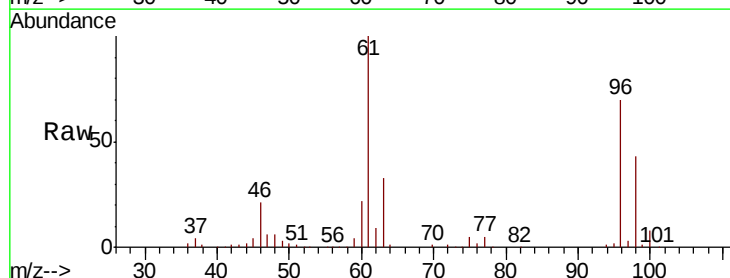
Tgt Ion: 96 Resp: 123889

Ion Ratio Lower Upper

96 100

61 143.7 95.5 177.3

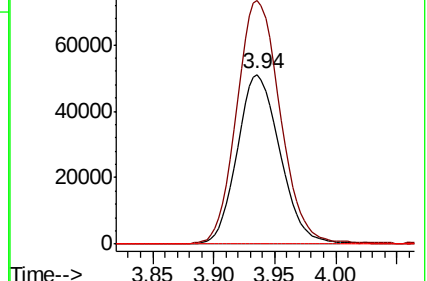
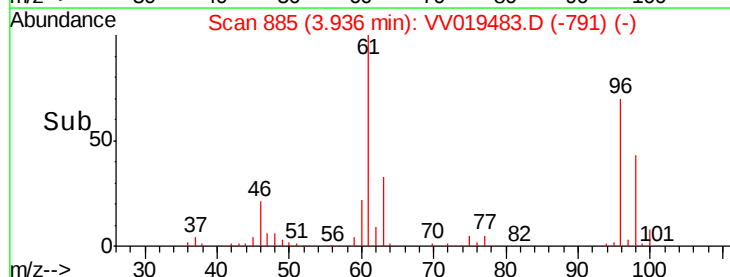
68 0.0 0.0 0.0

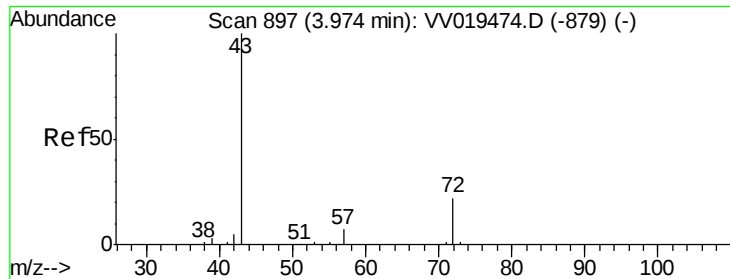


Abundance Ion 96.00 (95.70 to 96.70): VV019483.D (-791) (-)

Ion 61.00 (60.70 to 61.70): VV019483.D (-791) (-)

Ion 68.00 (67.70 to 68.70): VV019483.D (-791) (-)





#22

2-Butanone

Concen: 117.077 ug/L

RT: 3.98 min Scan# 899

Delta R.T. 0.01 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

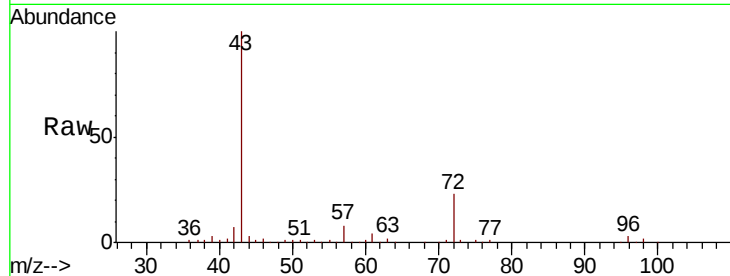
VSTD05078

Tot Ion: 43 Resp: 222362

Ion Ratio Lower Upper

43 100

72 21.2 12.7 38.1

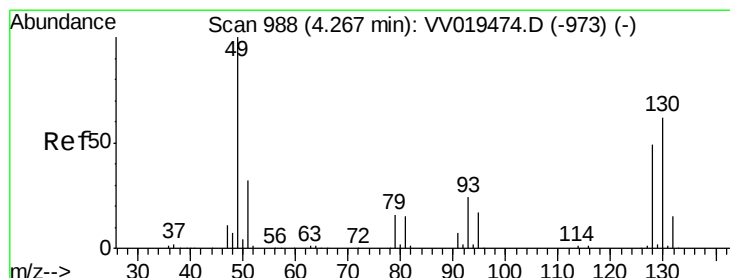
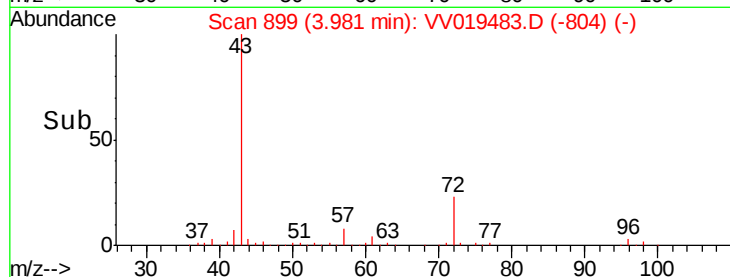


Abundance Ion 43.00 (42.70 to 43.70): VV019474.D (-879) (-)

Ion 72.00 (71.70 to 72.70): VV019474.D (-879) (-)

Time-->

3.98



#23

Bromochloromethane

Concen: 48.339 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.01 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Tgt Ion: 128 Resp: 62505

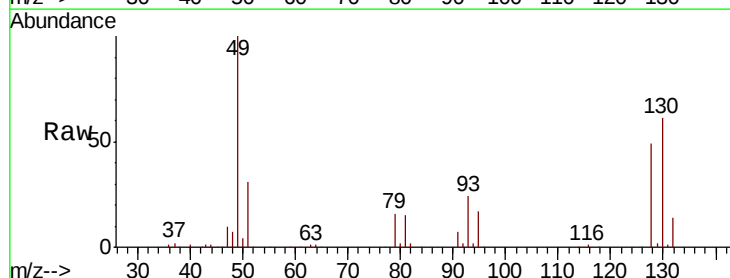
Ion Ratio Lower Upper

128 100

49 205.7 126.1 234.1

130 124.5 89.4 166.0

51 64.2 46.5 69.7



Abundance Ion 128.00 (127.70 to 128.70): VV019483.D (-895) (-)

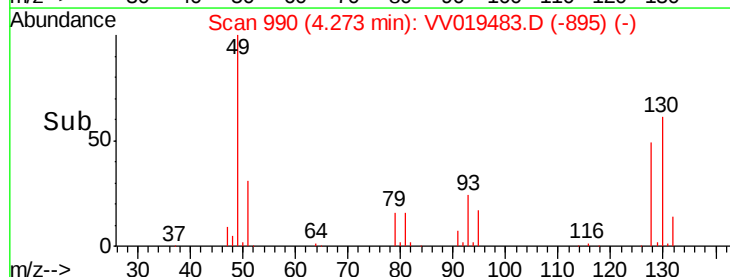
Ion 49.00 (48.70 to 49.70): VV019483.D (-895) (-)

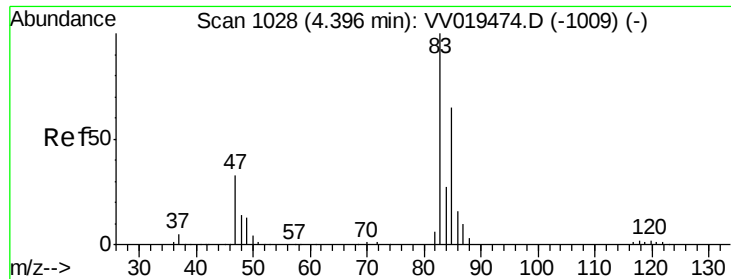
Ion 130.00 (129.70 to 130.70): VV019483.D (-895) (-)

Ion 51.00 (50.70 to 51.70): VV019483.D (-895) (-)

Time-->

4.27

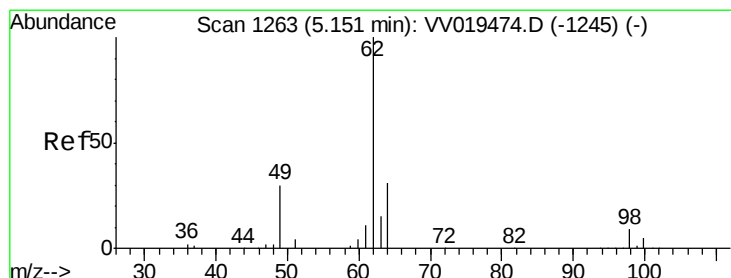
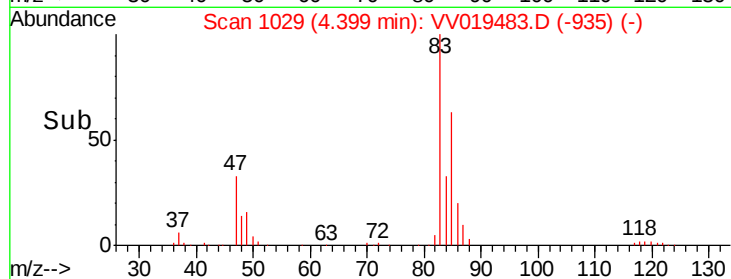
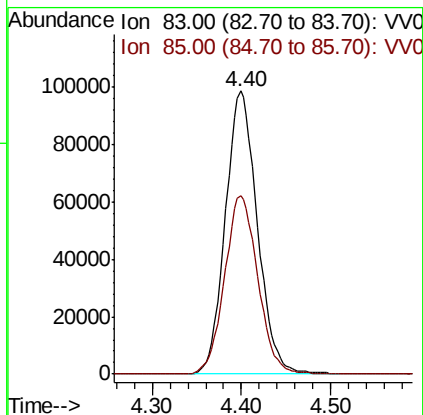
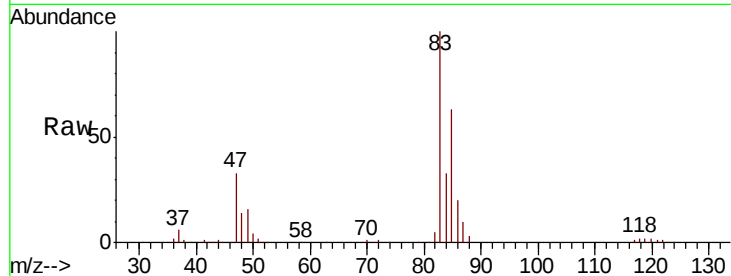




#25
Chloroform
Concen: 53.275 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VV019483.D
Acq: 04 Dec 2020 17:11

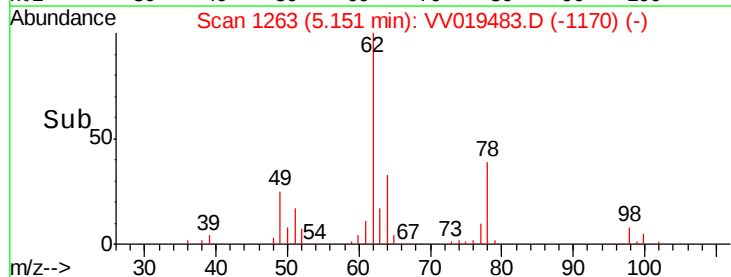
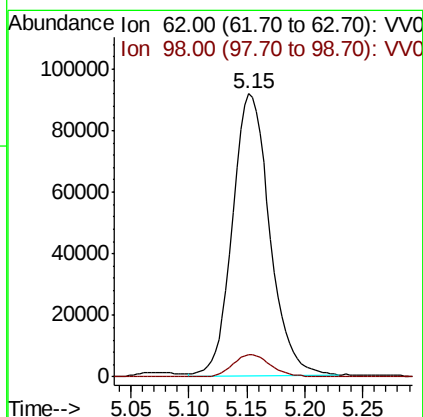
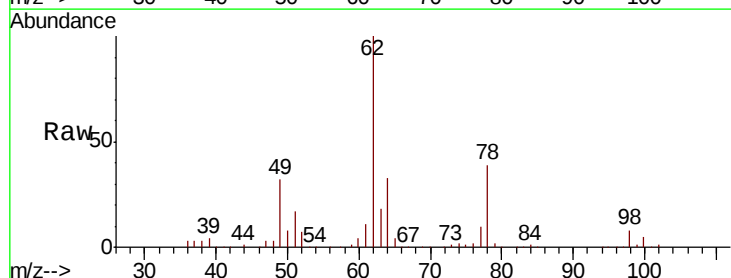
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

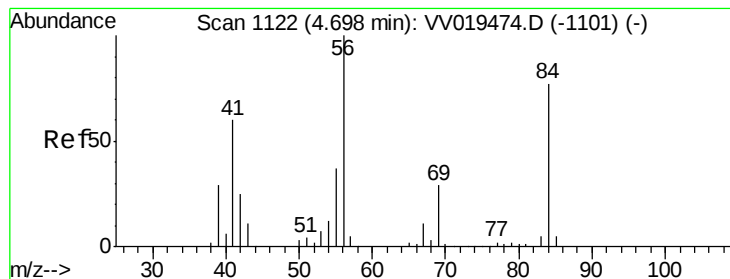
Tot Ion: 83 Resp: 245432
Ion Ratio Lower Upper
83 100
85 63.0 45.1 83.9



#27
1,2-Dichloroethane
Concen: 56.222 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VV019483.D
Acq: 04 Dec 2020 17:11

Tgt Ion: 62 Resp: 203224
Ion Ratio Lower Upper
62 100
98 7.8 7.6 11.4





#29

Cyclohexane

Concen: 61.959 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

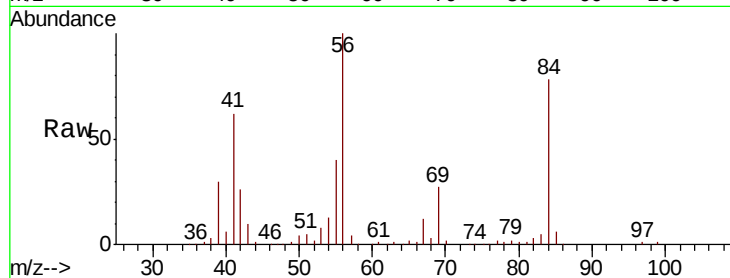
Tot Ion: 56 Resp: 196496

Ion Ratio Lower Upper

56 100

69 27.6 23.8 35.8

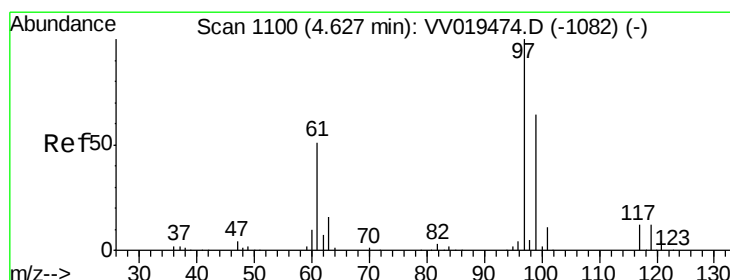
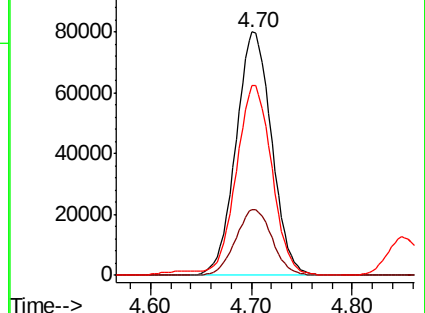
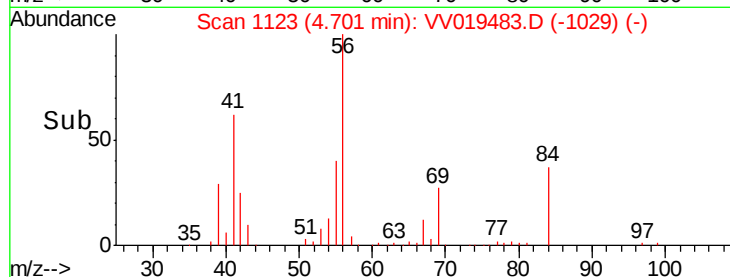
84 77.3 67.0 100.6



Abundance Ion 56.00 (55.70 to 56.70): VV019483.D (-1029) (-)

Ion 69.00 (68.70 to 69.70): VV019483.D (-1029) (-)

Ion 84.00 (83.70 to 84.70): VV019483.D (-1029) (-)



#30

1,1,1-Trichloroethane

Concen: 56.040 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

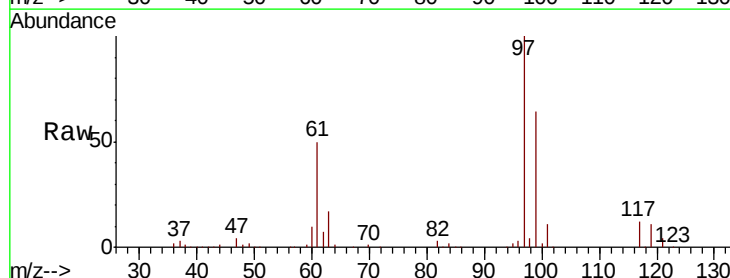
Tgt Ion: 97 Resp: 205080

Ion Ratio Lower Upper

97 100

99 63.9 51.0 76.6

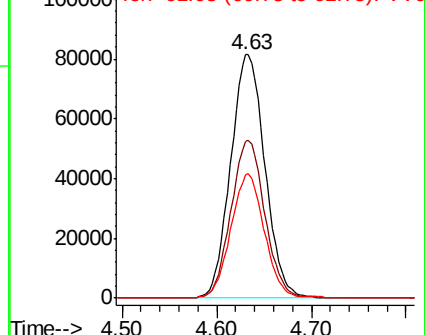
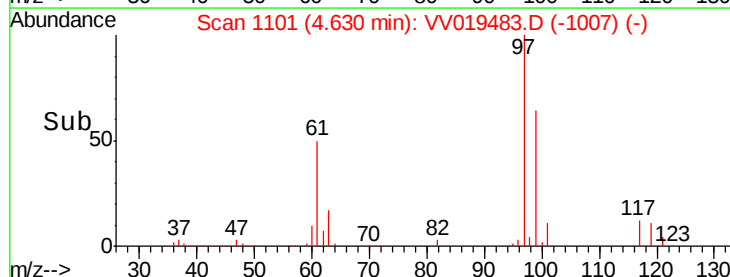
61 49.8 36.9 55.3

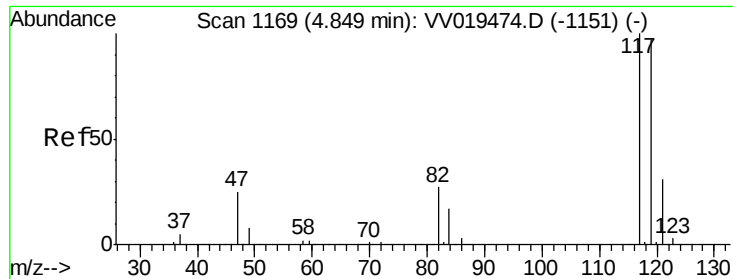


Abundance Ion 97.00 (96.70 to 97.70): VV019483.D (-1007) (-)

Ion 99.00 (98.70 to 99.70): VV019483.D (-1007) (-)

Ion 61.05 (60.75 to 61.75): VV019483.D (-1007) (-)





#31

Carbon tetrachloride

Concen: 53.734 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

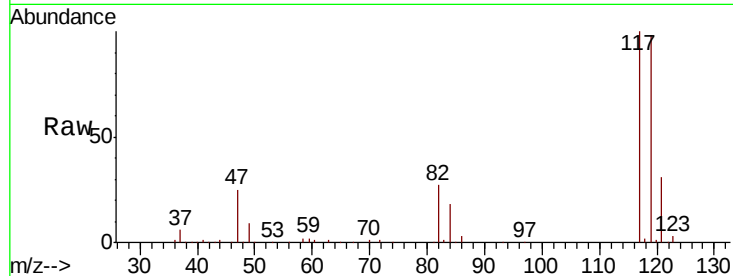
VSTD05078

Tot Ion:117 Resp: 168813

Ion Ratio Lower Upper

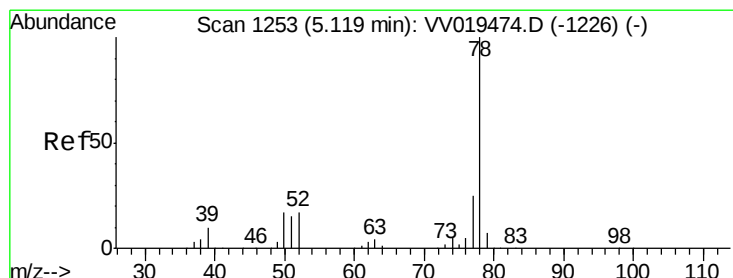
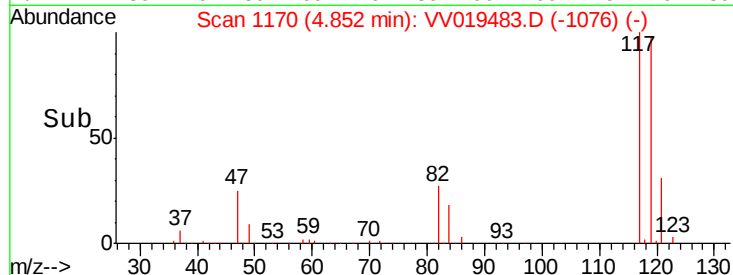
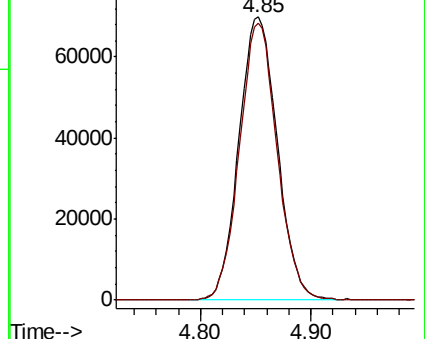
117 100

119 95.8 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 56.578 ug/L

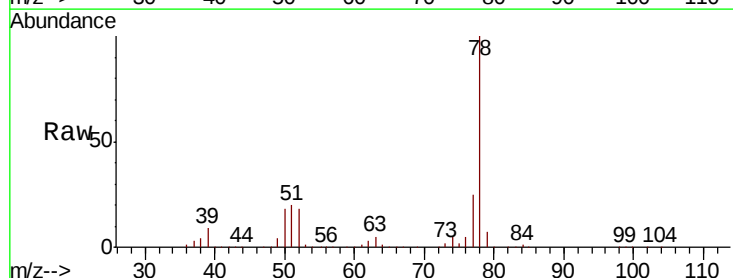
RT: 5.12 min Scan# 1254

Delta R.T. 0.00 min

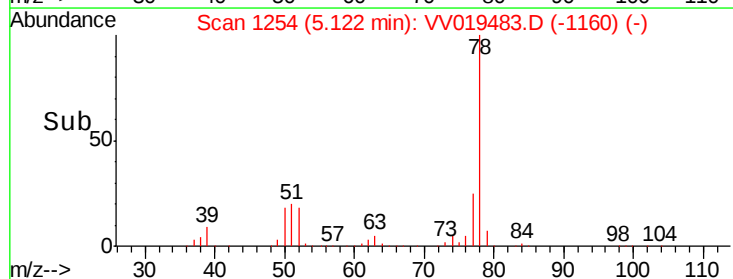
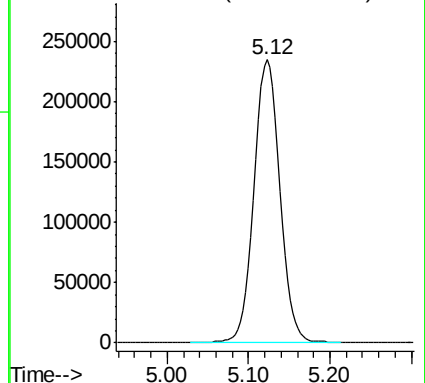
Lab File: VV019483.D

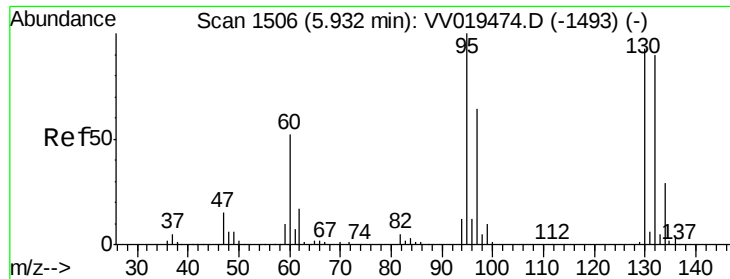
Acq: 04 Dec 2020 17:11

Tgt Ion: 78 Resp: 512966



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 52.916 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

Tot Ion: 95 Resp: 133792

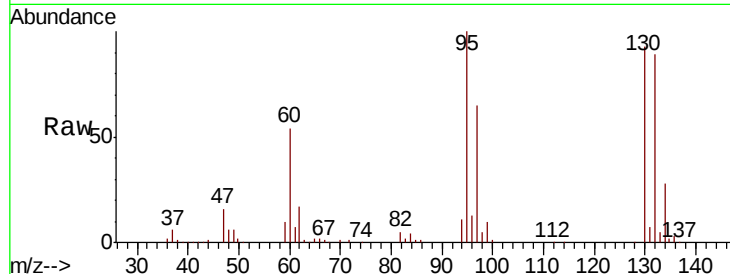
Ion Ratio Lower Upper

95 100

97 65.3 43.8 81.3

132 89.2 65.6 121.8

130 92.9 69.2 128.6



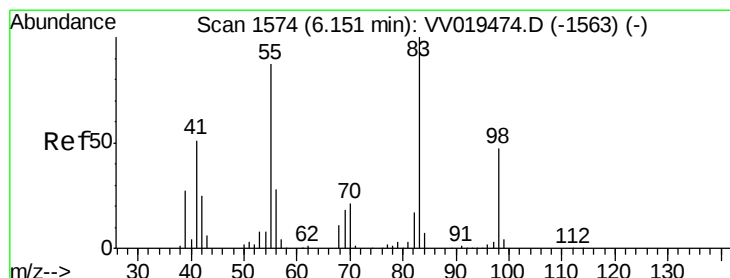
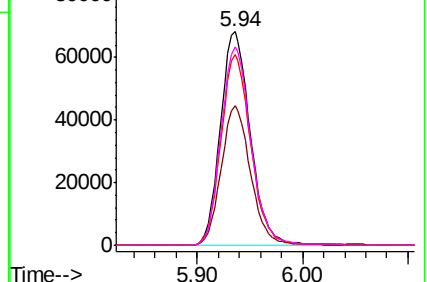
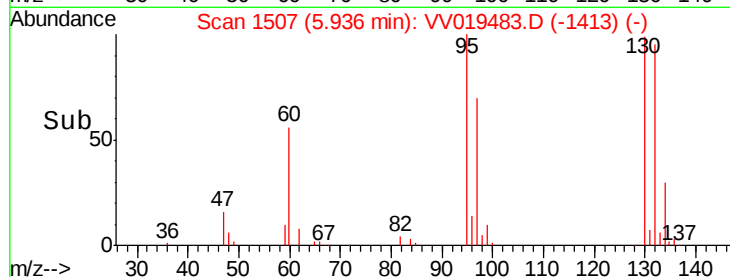
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 58.529 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

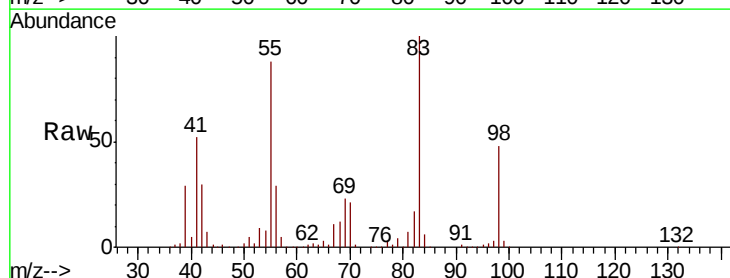
Tgt Ion: 83 Resp: 174136

Ion Ratio Lower Upper

83 100

55 89.2 67.4 101.2

98 48.1 38.3 57.5

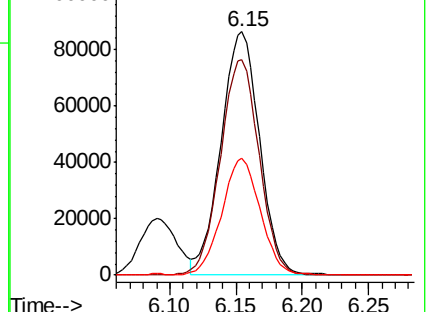
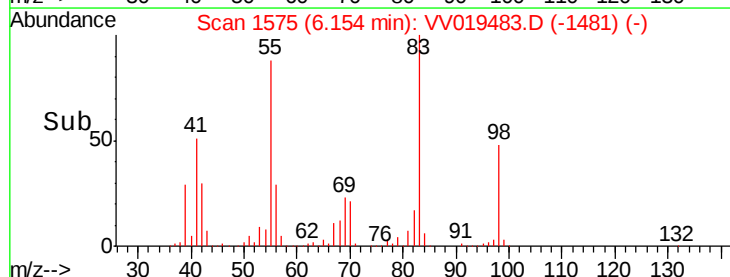


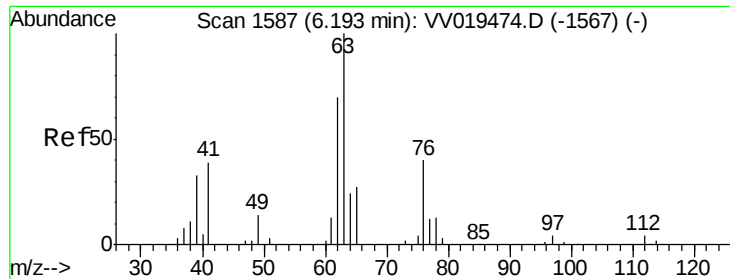
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

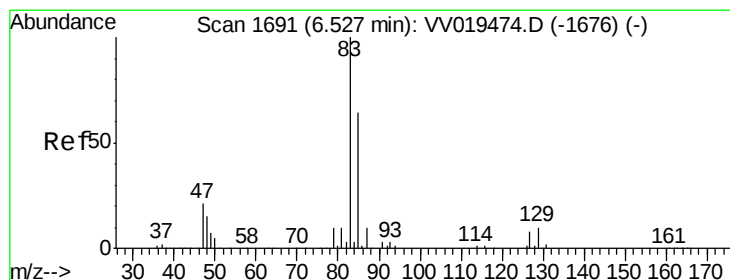
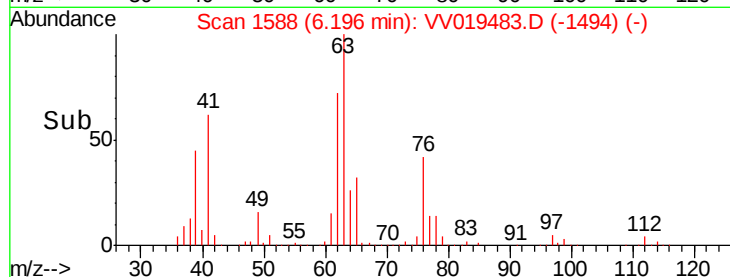
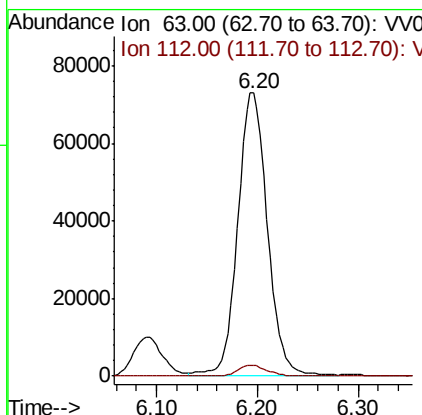
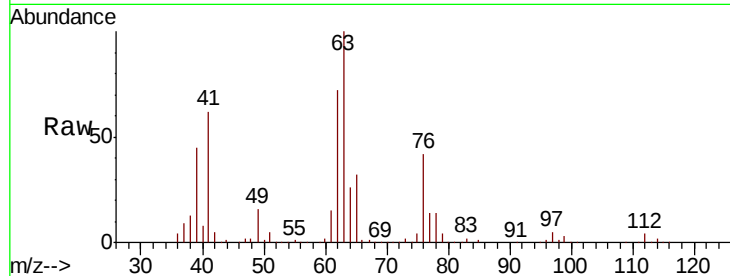




#37
 1,2-Dichloropropane
 Concen: 58.942 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: VV019483.D
 Acq: 04 Dec 2020 17:11

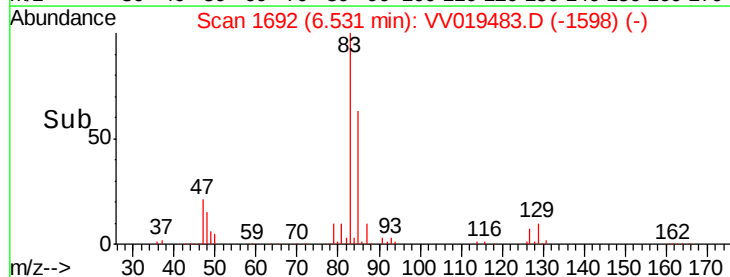
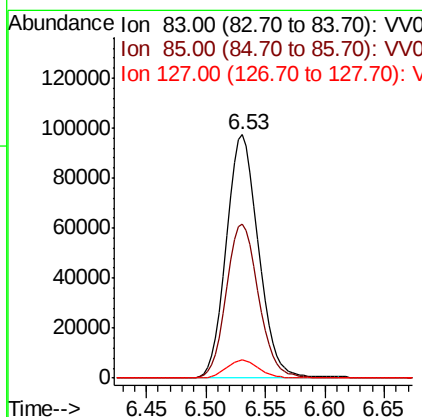
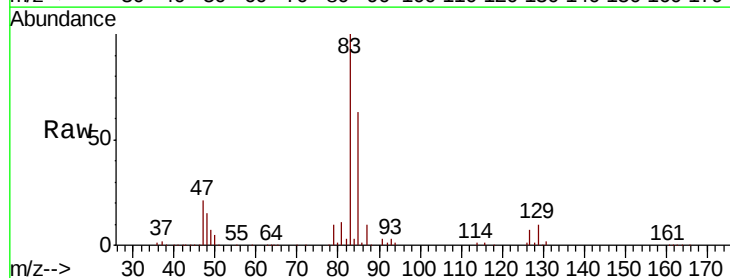
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

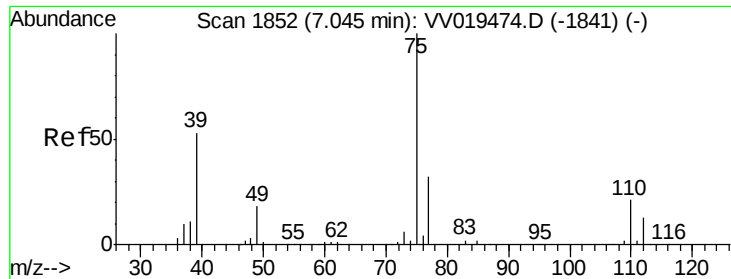
Tot Ion: 63 Resp: 147399
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.8 5.6



#38
 Bromodichloromethane
 Concen: 55.245 ug/L
 RT: 6.53 min Scan# 1692
 Delta R.T. 0.00 min
 Lab File: VV019483.D
 Acq: 04 Dec 2020 17:11

Tgt Ion: 83 Resp: 183166
 Ion Ratio Lower Upper
 83 100
 85 63.3 45.3 84.1
 127 7.4 6.6 9.8

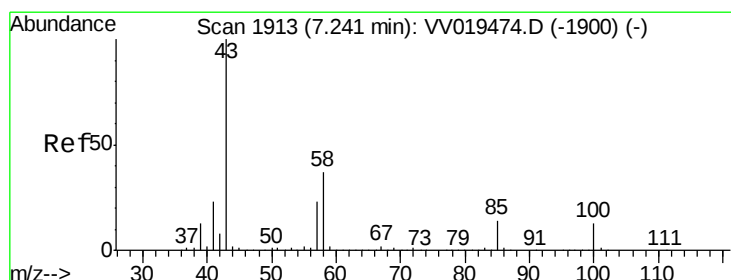
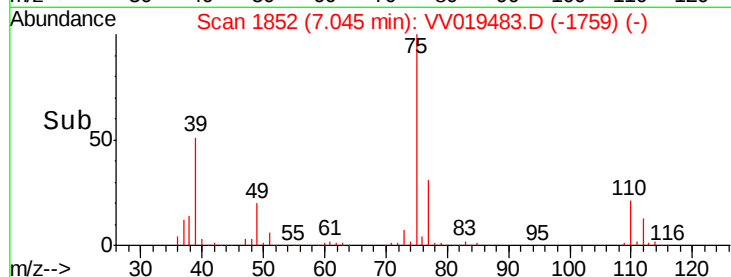
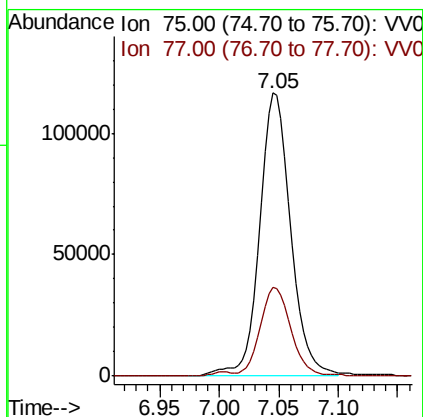
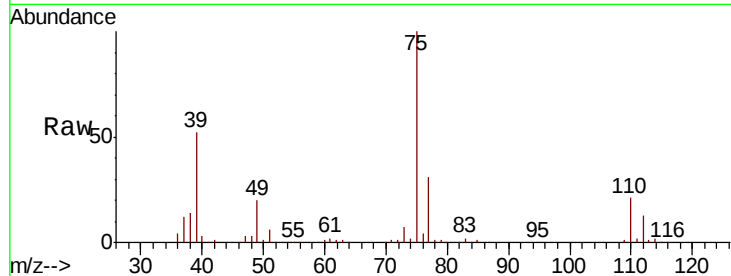




#39
 cis-1,3-Dichloropropene
 Concen: 57.228 ug/L
 RT: 7.05 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VV019483.D
 Acq: 04 Dec 2020 17:11

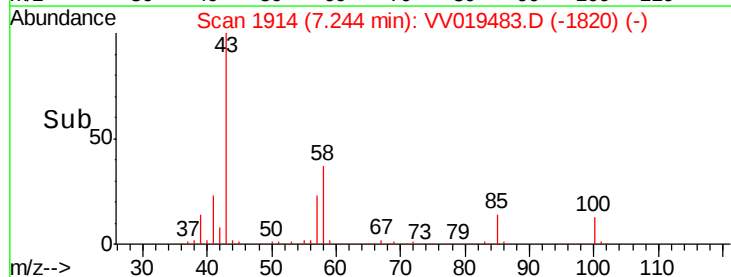
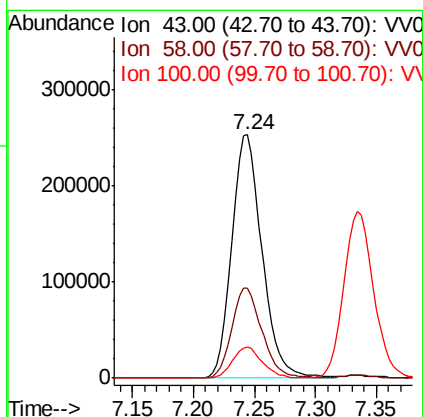
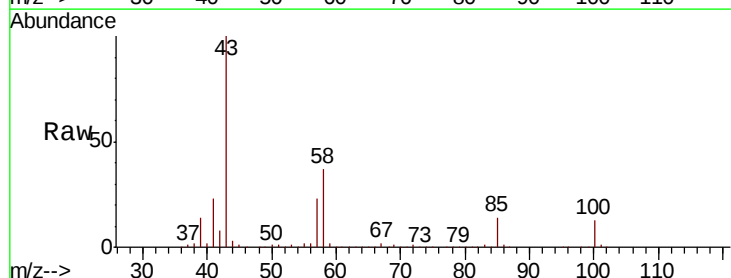
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

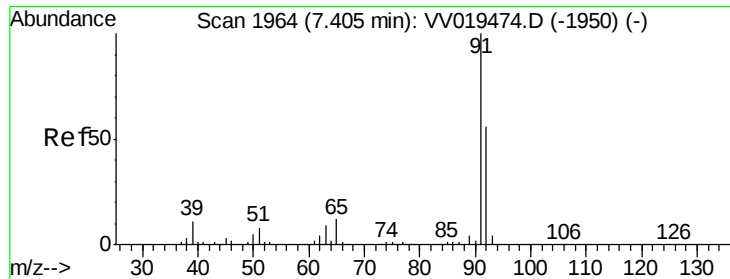
Tot Ion: 75 Resp: 211395
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 124.309 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. 0.00 min
 Lab File: VV019483.D
 Acq: 04 Dec 2020 17:11

Tgt Ion: 43 Resp: 438349
 Ion Ratio Lower Upper
 43 100
 58 36.8 31.0 46.4
 100 12.6 11.7 17.5





#42

Toluene

Concen: 55.996 ug/L

RT: 7.41 min Scan# 1964

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

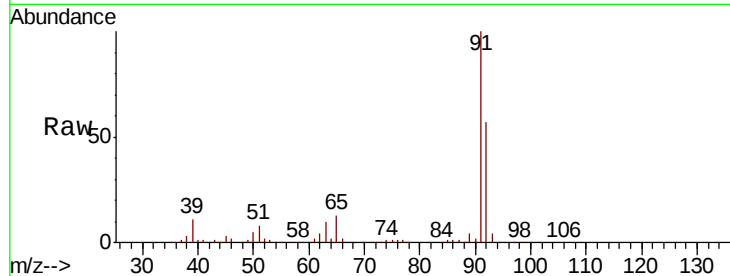
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

Tot Ion: 91 Resp: 526651

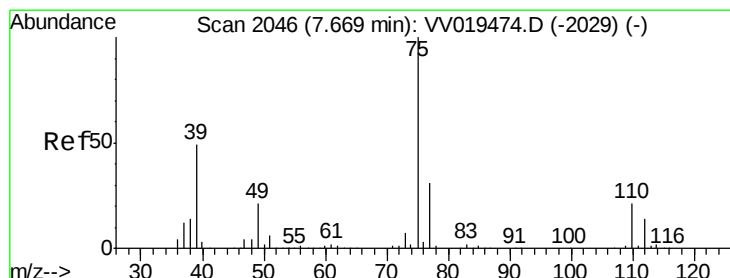
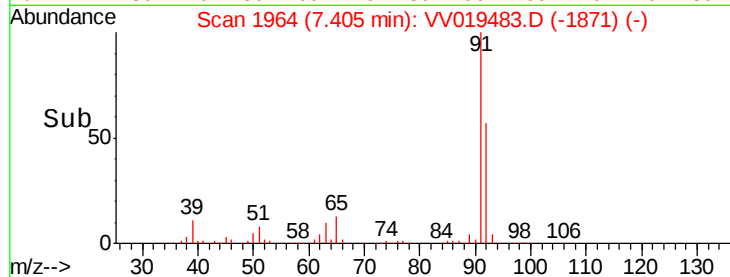
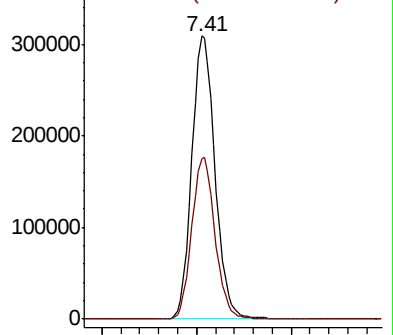
Ion Ratio Lower Upper

91 100

92 56.8 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VV019474.D (-1950) (-)



#44

trans-1,3-Dichloropropene

Concen: 57.115 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV019483.D

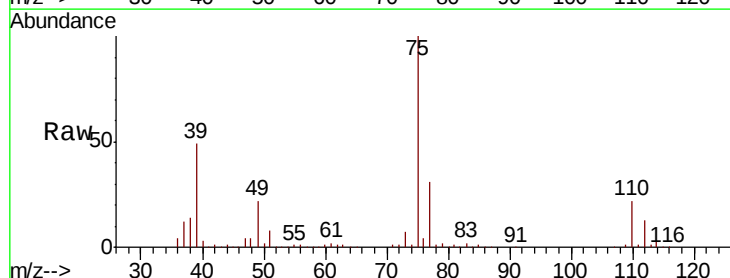
Acq: 04 Dec 2020 17:11

Tgt Ion: 75 Resp: 210153

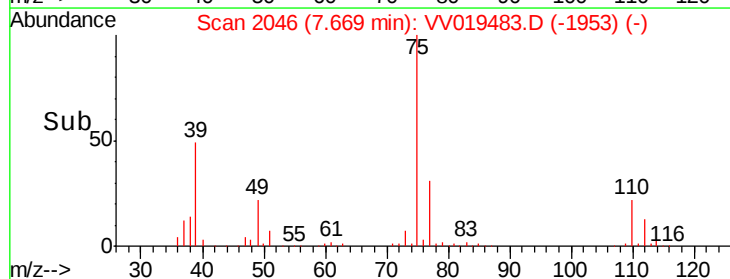
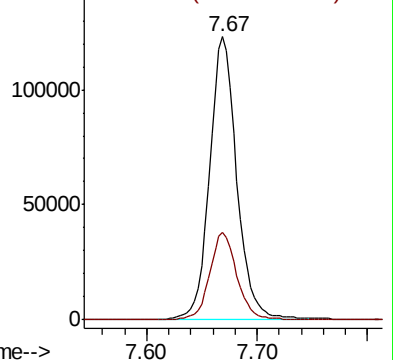
Ion Ratio Lower Upper

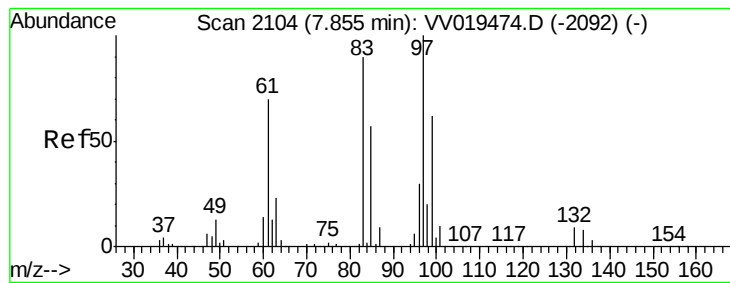
75 100

77 31.0 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VV019474.D (-2029) (-)





#45

1,1,2-Trichloroethane

Concen: 53.936 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

Tot Ion: 97 Resp: 126304

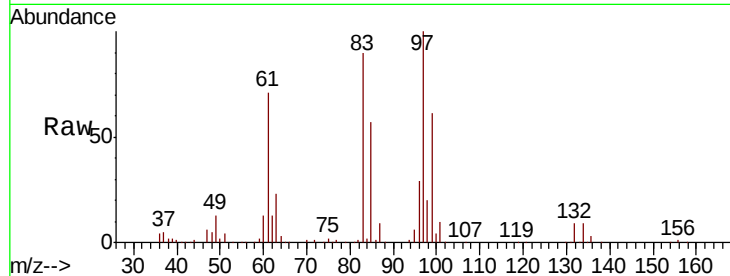
Ion Ratio Lower Upper

97 100

99 61.0 43.7 81.1

83 90.1 62.0 115.2

85 57.5 40.0 74.4



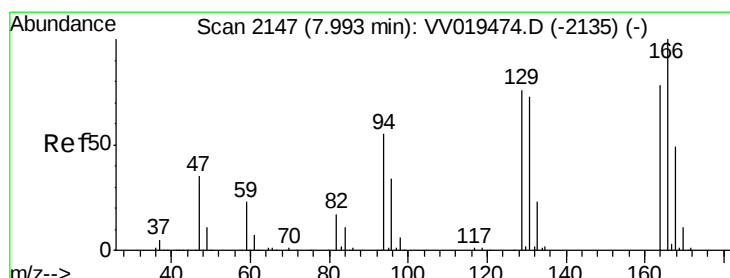
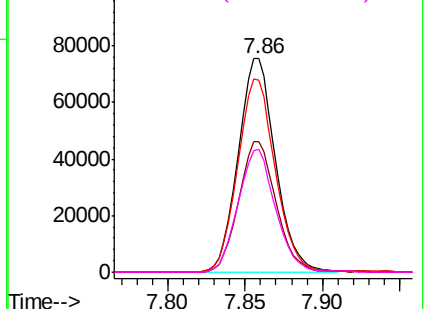
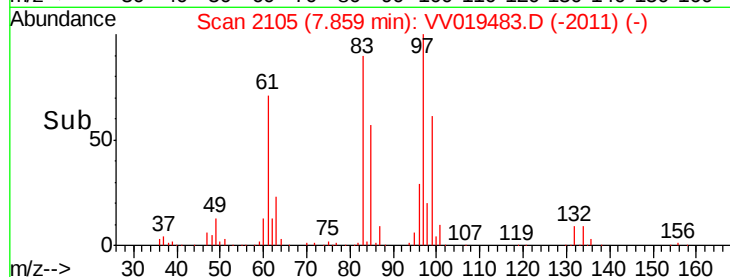
Abundance

Ion 97.00 (96.70 to 97.70): VV019483.D (-2011) (-)

Ion 99.00 (98.70 to 99.70): VV019483.D (-2011) (-)

Ion 83.00 (82.70 to 83.70): VV019483.D (-2011) (-)

Ion 85.00 (84.70 to 85.70): VV019483.D (-2011) (-)



#46

Tetrachloroethene

Concen: 49.082 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Tgt Ion: 164 Resp: 86188

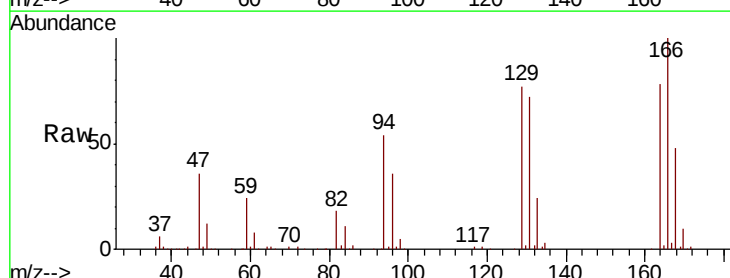
Ion Ratio Lower Upper

164 100

129 99.0 62.9 116.7

131 93.0 61.1 113.5

166 128.4 86.5 160.6



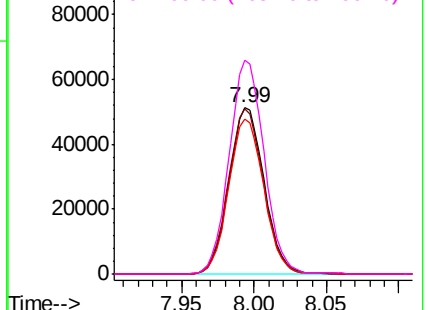
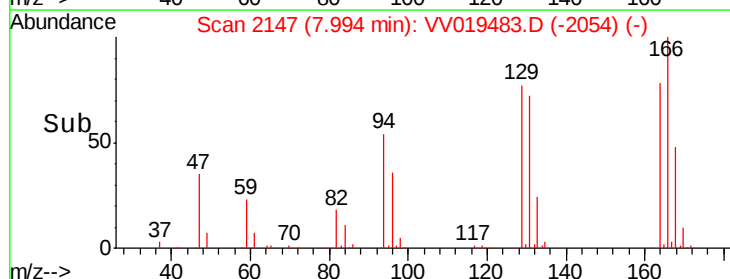
Abundance

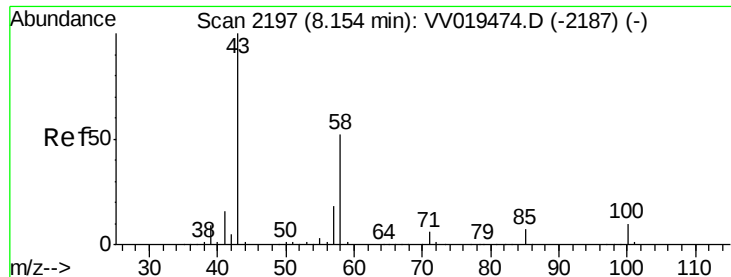
Ion 164.00 (163.70 to 164.70): VV019483.D (-2054) (-)

Ion 129.00 (128.70 to 129.70): VV019483.D (-2054) (-)

Ion 131.00 (130.70 to 131.70): VV019483.D (-2054) (-)

Ion 166.00 (165.70 to 166.70): VV019483.D (-2054) (-)

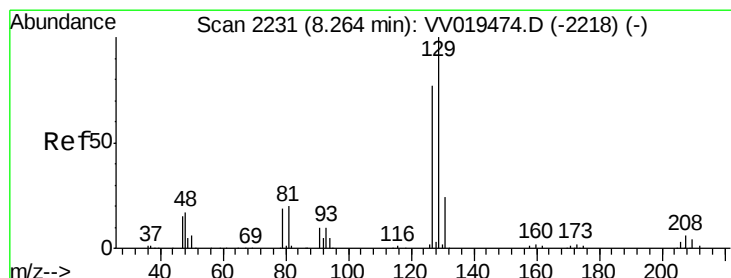
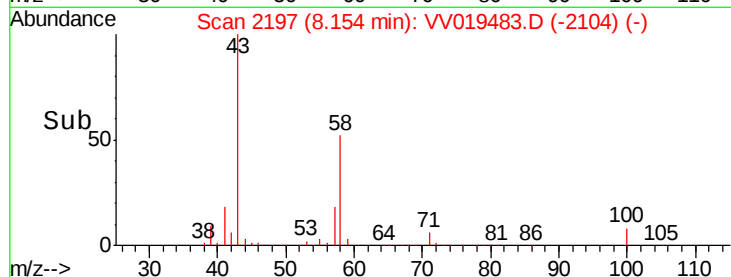
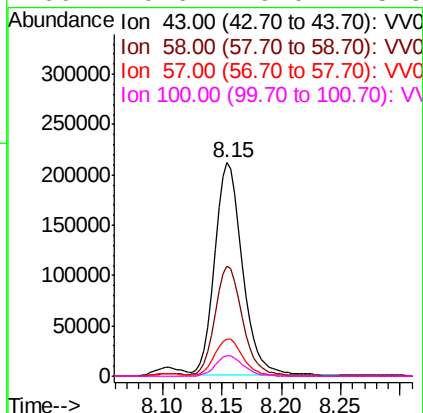
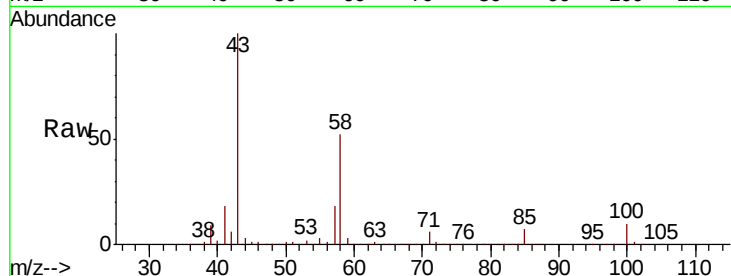




#48
2-Hexanone
Concen: 122.560 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VV019483.D
Acq: 04 Dec 2020 17:11

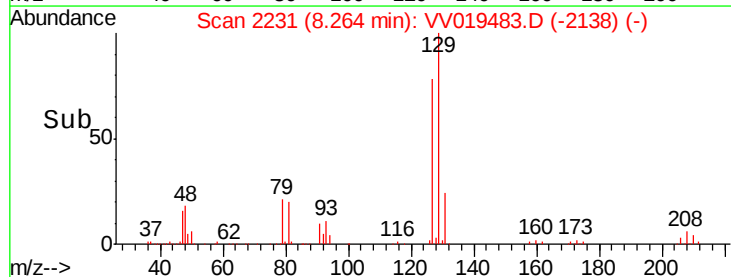
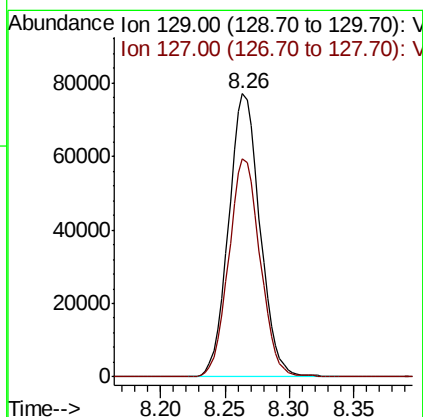
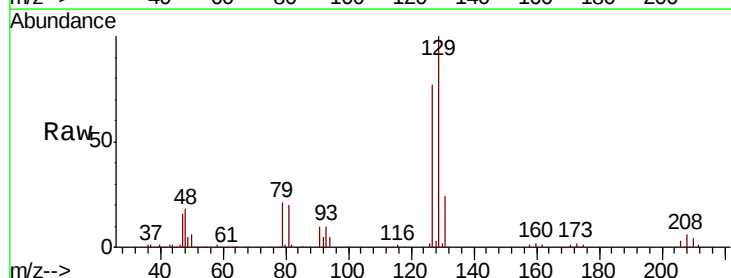
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

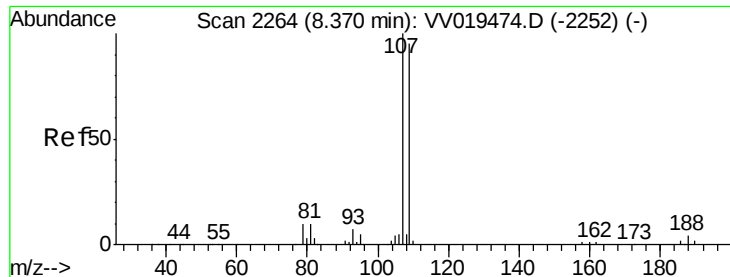
Tot Ion:	43	Resp:	342296
Ion	Ratio	Lower	Upper
43	100		
58	51.2	43.8	65.6
57	17.7	15.4	23.2
100	9.6	9.0	13.6



#49
Dibromochloromethane
Concen: 50.248 ug/L
RT: 8.26 min Scan# 2231
Delta R.T. 0.00 min
Lab File: VV019483.D
Acq: 04 Dec 2020 17:11

Tgt Ion:	129	Resp:	130047
Ion	Ratio	Lower	Upper
129	100		
127	76.9	53.5	99.5

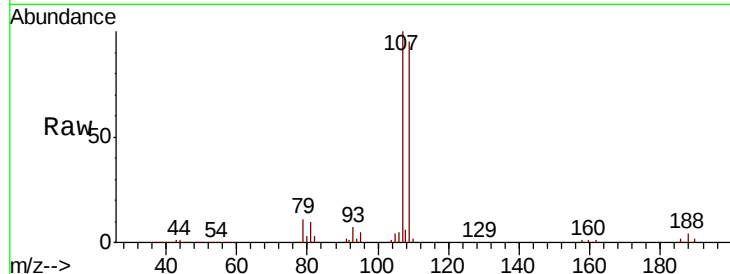




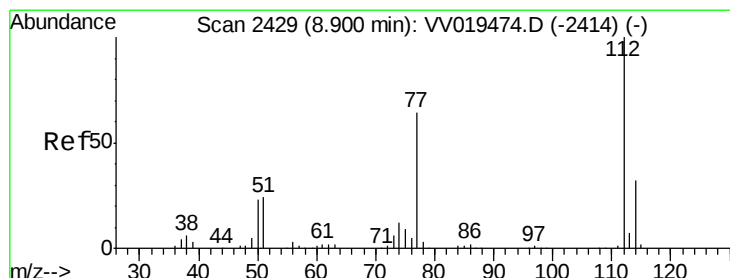
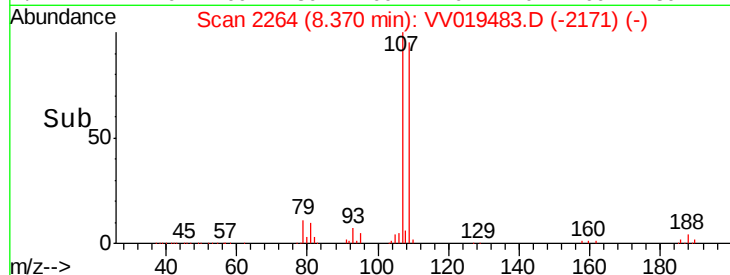
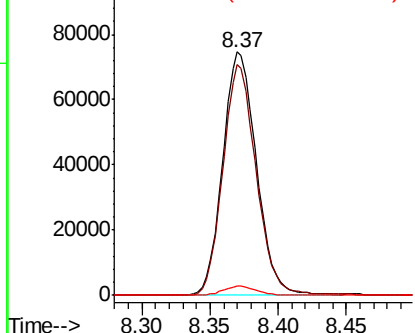
#50
 1,2-Dibromoethane
 Concen: 51.563 ug/L
 RT: 8.37 min Scan# 2264
 Delta R.T. 0.00 min
 Lab File: VV019483.D
 Acq: 04 Dec 2020 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	66.1	122.8
188	3.7	3.0	4.4

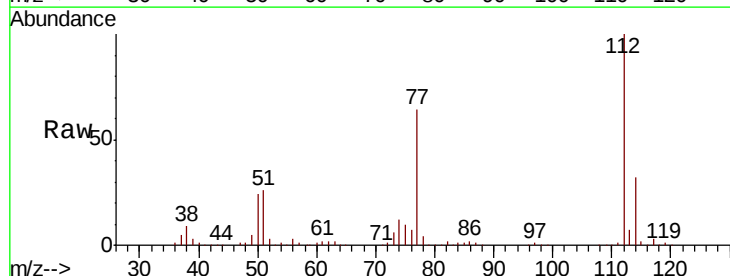


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

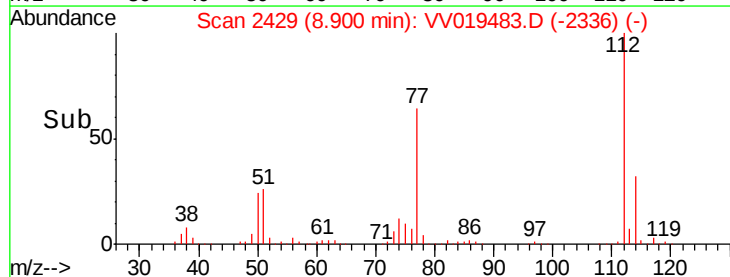
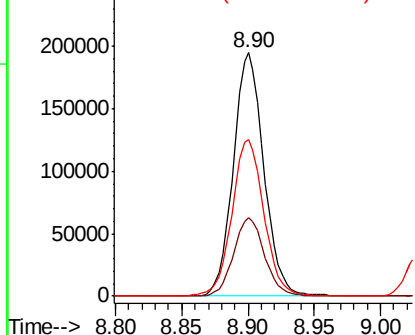


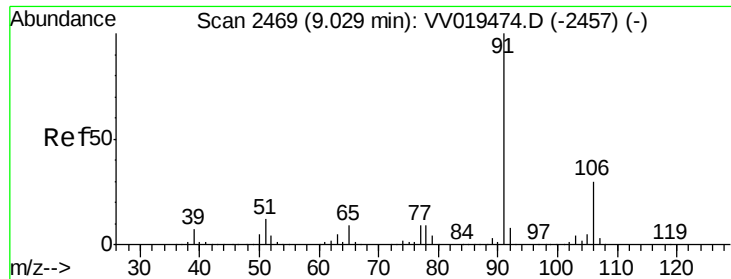
#51
 Chlorobenzene
 Concen: 50.326 ug/L
 RT: 8.90 min Scan# 2429
 Delta R.T. 0.00 min
 Lab File: VV019483.D
 Acq: 04 Dec 2020 17:11

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.7	42.1
77	64.4	50.3	75.5



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): V

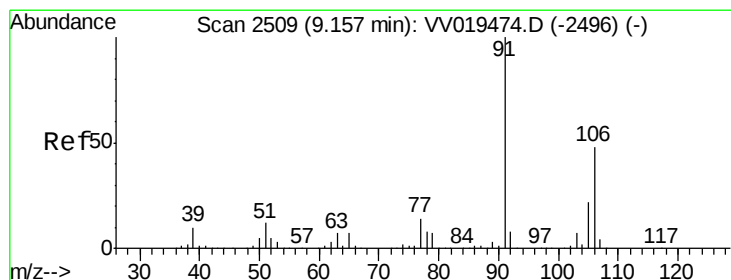
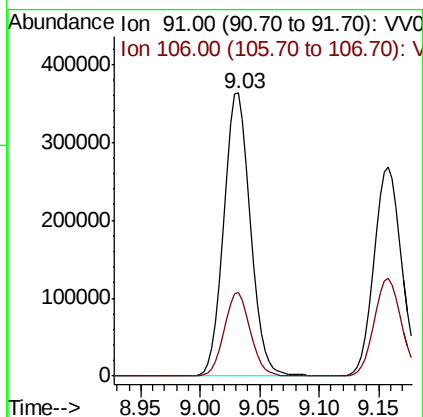
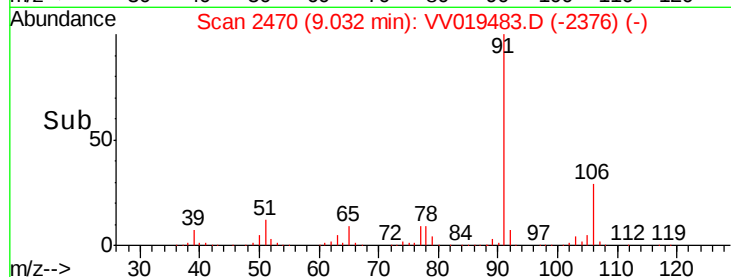
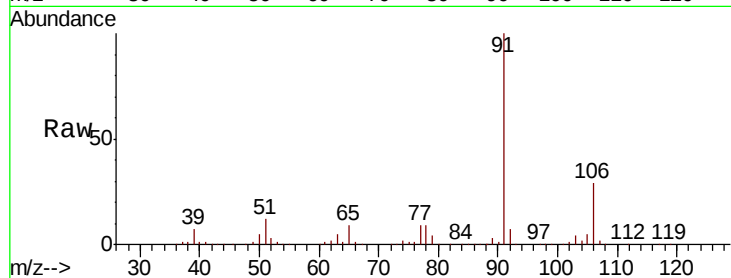




#52
Ethylbenzene
Concen: 56.009 ug/L
RT: 9.03 min Scan# 2470
Delta R.T. 0.00 min
Lab File: VV019483.D
Acq: 04 Dec 2020 17:11

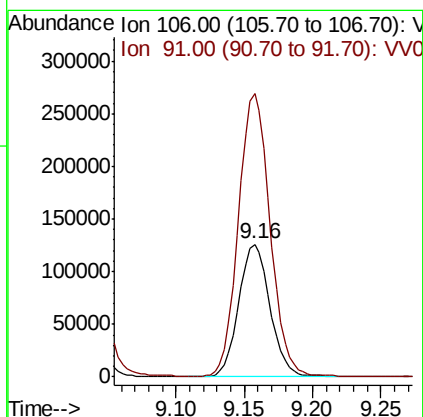
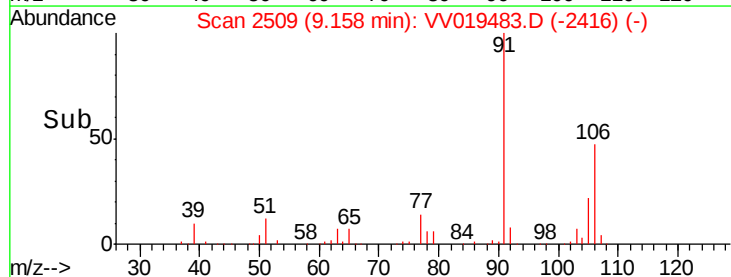
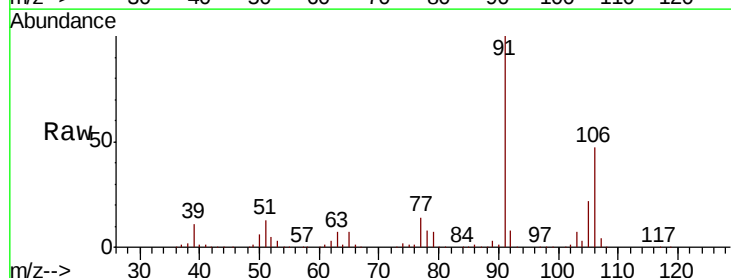
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

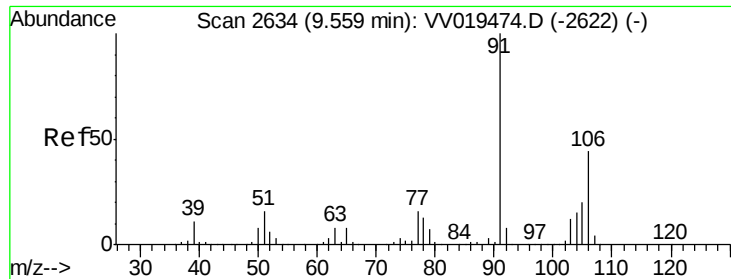
Tot Ion: 91 Resp: 565313
Ion Ratio Lower Upper
91 100
106 29.4 21.4 39.8



#53
m,p-Xylene
Concen: 53.561 ug/L
RT: 9.16 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VV019483.D
Acq: 04 Dec 2020 17:11

Tgt Ion: 106 Resp: 200023
Ion Ratio Lower Upper
106 100
91 213.1 148.7 276.3





#54

o-xylene

Concen: 53.222 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

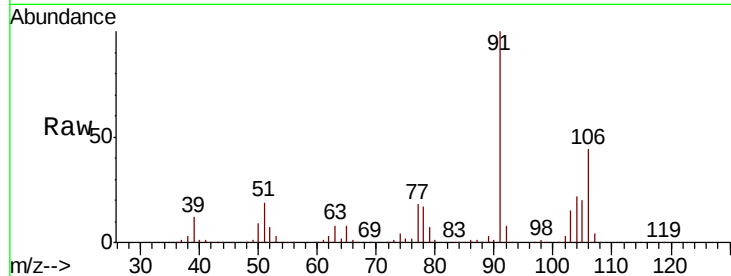
VSTD05078

Tot Ion:106 Resp: 193526

Ion Ratio Lower Upper

106 100

91 227.5 155.1 288.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

300000

200000

100000

0

9.55

9.56

9.57

9.58

9.59

9.60

9.61

9.62

9.63

9.64

9.65

9.66

9.67

9.68

9.69

9.70

9.71

9.72

9.73

9.74

9.75

9.76

9.77

9.78

9.79

9.80

9.81

9.82

9.83

9.84

9.85

9.86

9.87

9.88

9.89

9.90

9.91

9.92

9.93

9.94

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9.97

9.98

9.99

10.00

10.01

10.02

10.03

10.04

10.05

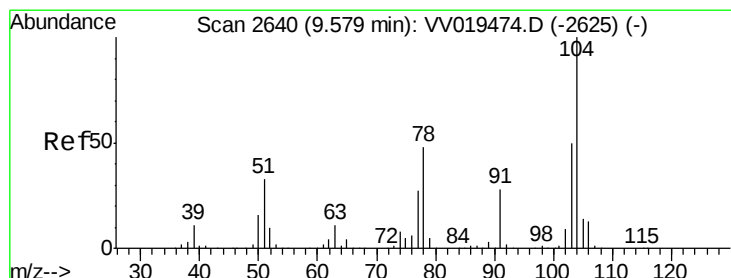
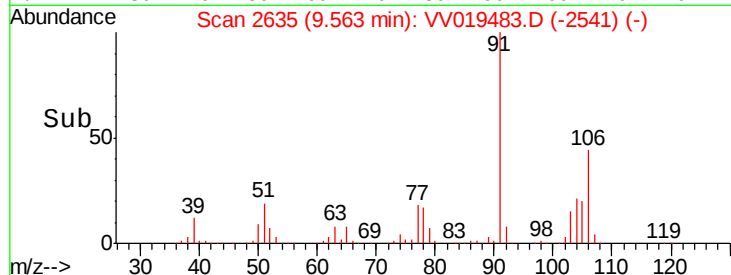
10.06

10.07

10.08

10.09

10.10



#55

Styrene

Concen: 55.447 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV019483.D

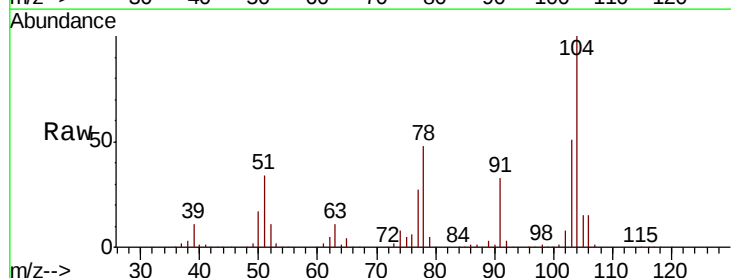
Acq: 04 Dec 2020 17:11

Tgt Ion:104 Resp: 360921

Ion Ratio Lower Upper

104 100

78 48.4 33.0 61.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

250000

200000

150000

100000

50000

0

9.58

9.59

9.60

9.61

9.62

9.63

9.64

9.65

9.66

9.67

9.68

9.69

9.70

9.71

9.72

9.73

9.74

9.75

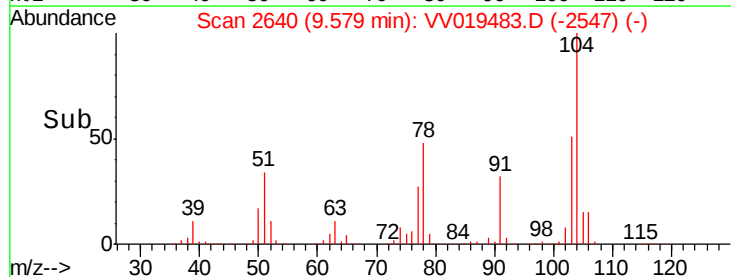
9.76

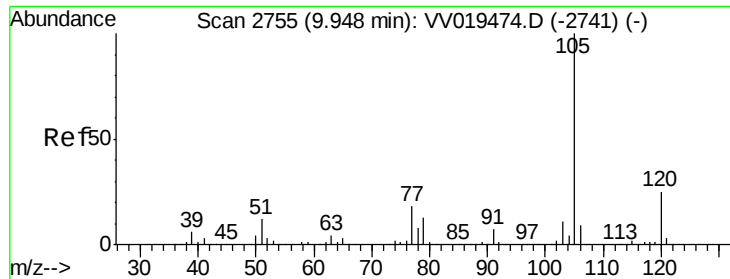
9.77

9.78

9.79

9.80





#56

Isopropylbenzene

Concen: 55.363 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

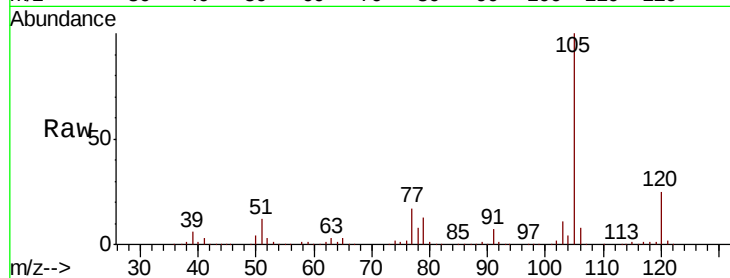
Tot Ion:105 Resp: 527425

Ion Ratio Lower Upper

105 100

120 25.0 20.8 31.2

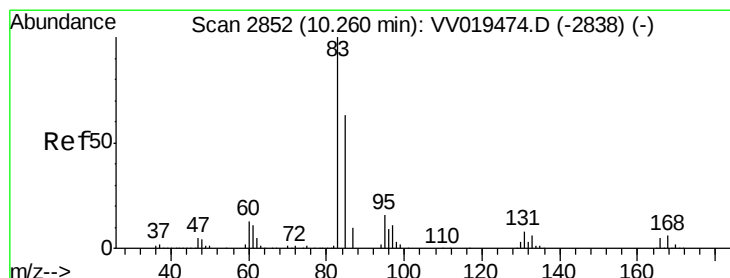
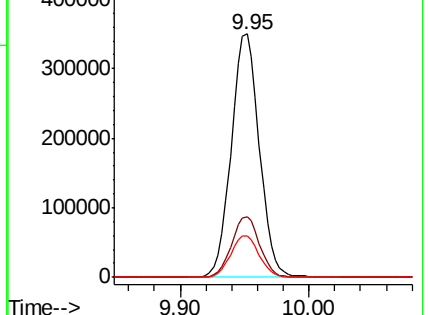
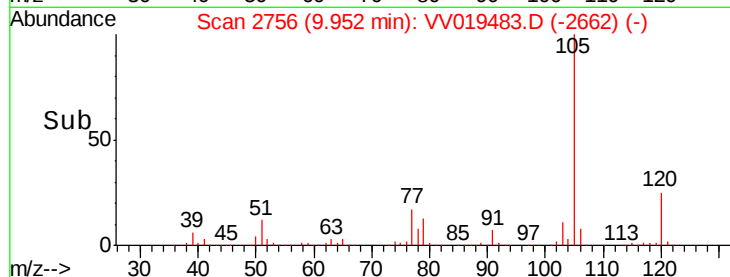
77 17.4 13.1 19.7



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: 54.261 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

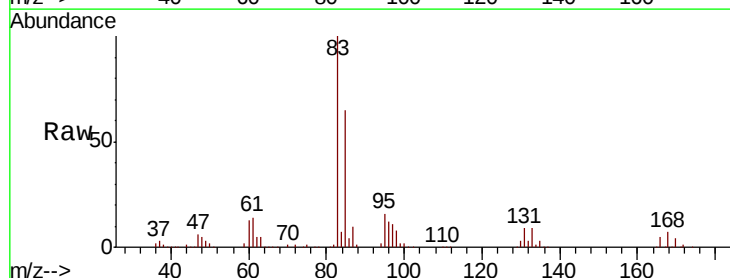
Tgt Ion: 83 Resp: 194219

Ion Ratio Lower Upper

83 100

85 64.5 44.8 83.2

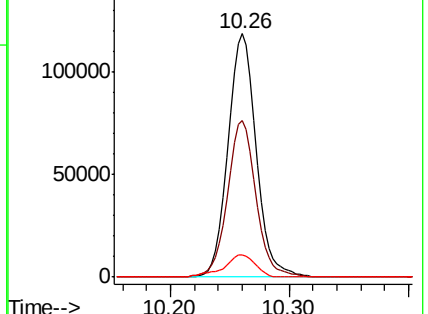
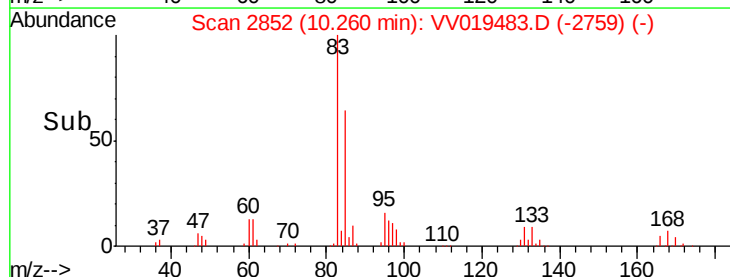
131 9.1 7.2 10.8

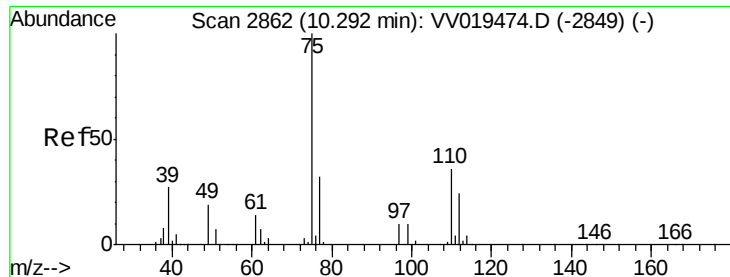


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 53.192 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

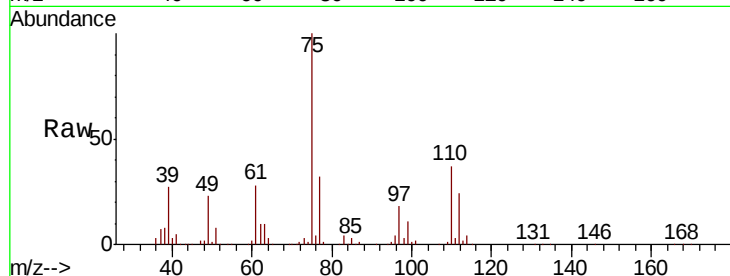
VSTD05078

Tot Ion: 75 Resp: 174734

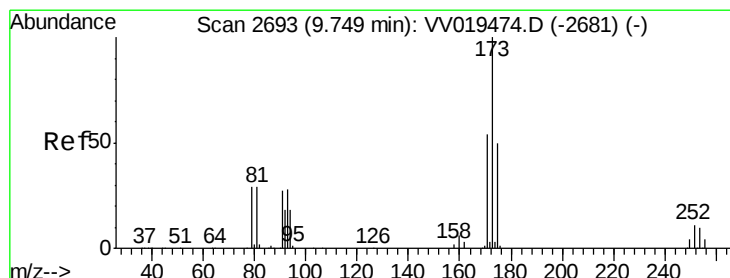
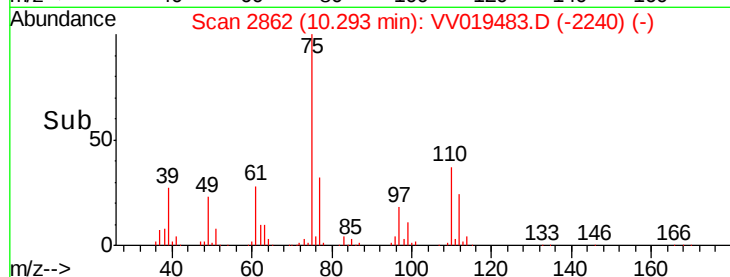
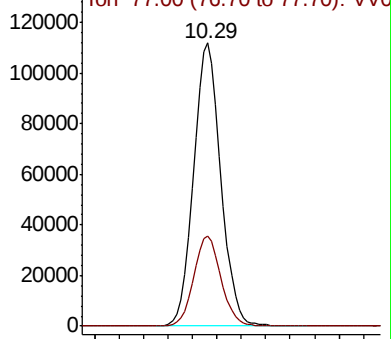
Ion Ratio Lower Upper

75 100

77 31.8 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VV019474.D (-2849) (-)



#61

Bromoform

Concen: 47.796 ug/L

RT: 9.75 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

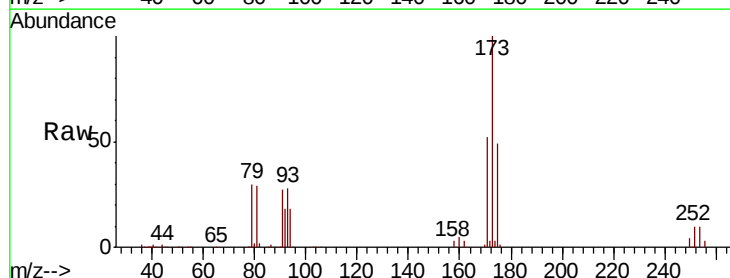
Tgt Ion: 173 Resp: 89872

Ion Ratio Lower Upper

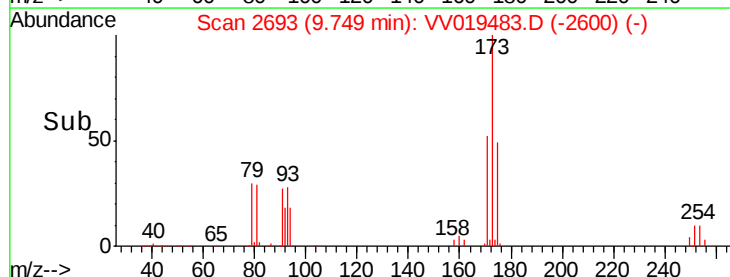
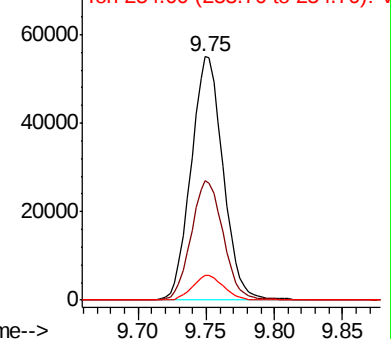
173 100

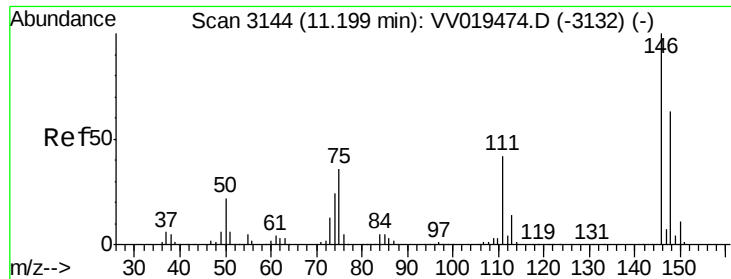
175 48.7 38.8 58.2

254 9.8 8.6 13.0



Abundance Ion 173.00 (172.70 to 173.70): VV019474.D (-2681) (-)





#62

1,3-Dichlorobenzene

Concen: 50.290 ug/L

RT: 11.20 min Scan# 3144

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

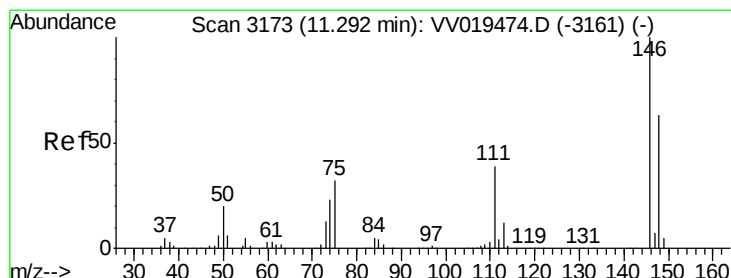
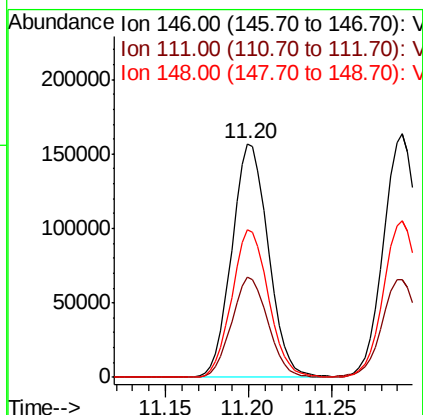
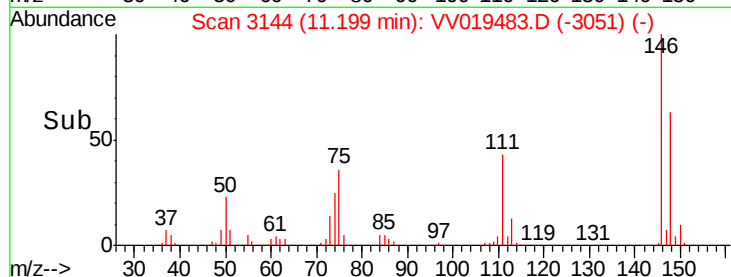
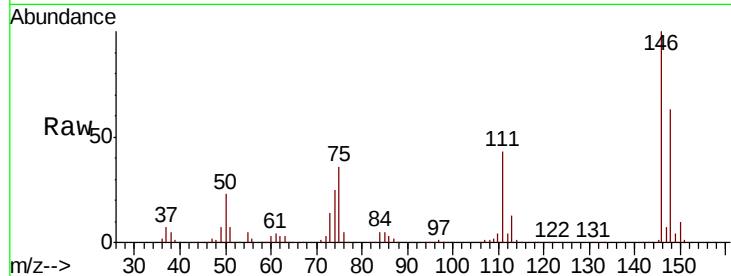
Tot Ion:146 Resp: 240630

Ion Ratio Lower Upper

146 100

111 42.8 27.9 51.7

148 63.2 44.4 82.5



#63

1,4-Dichlorobenzene

Concen: 48.786 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

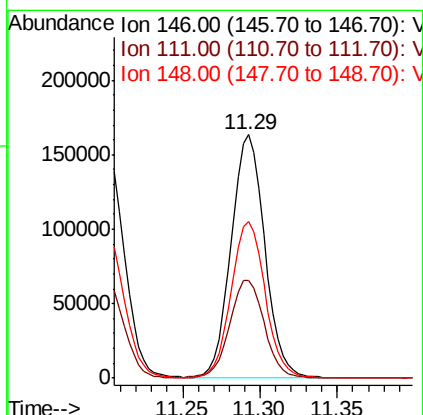
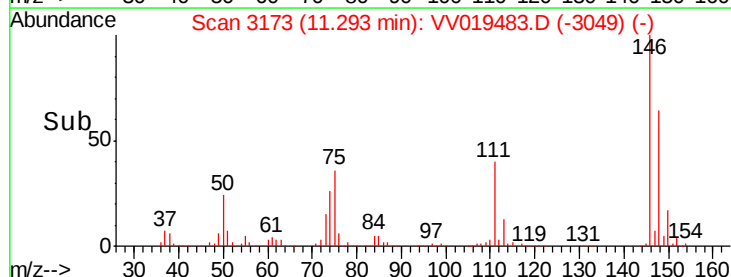
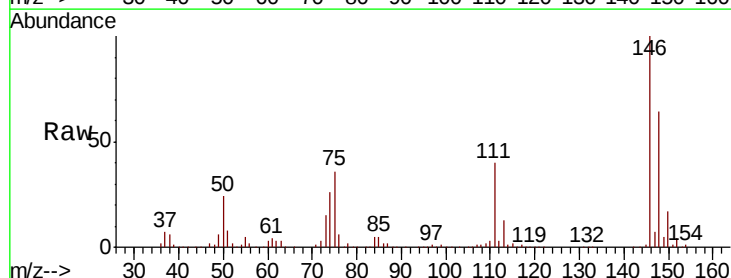
Tgt Ion:146 Resp: 245354

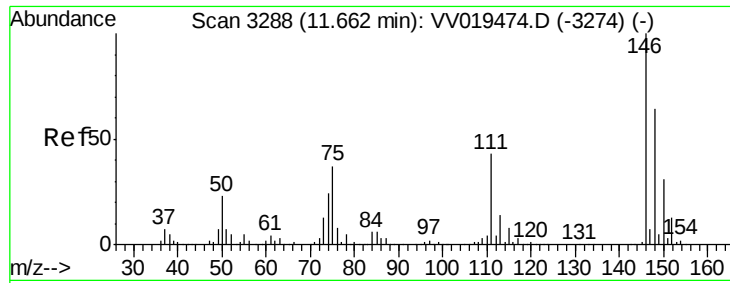
Ion Ratio Lower Upper

146 100

111 40.4 26.7 49.7

148 64.3 45.2 84.0





#65

1,2-Dichlorobenzene

Concen: 50.090 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

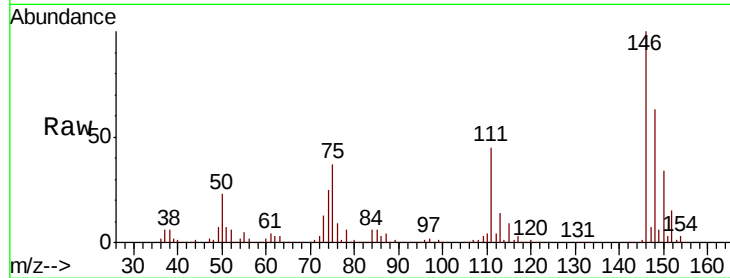
Tot Ion:146 Resp: 246064

Ion Ratio Lower Upper

146 100

111 44.5 33.8 50.8

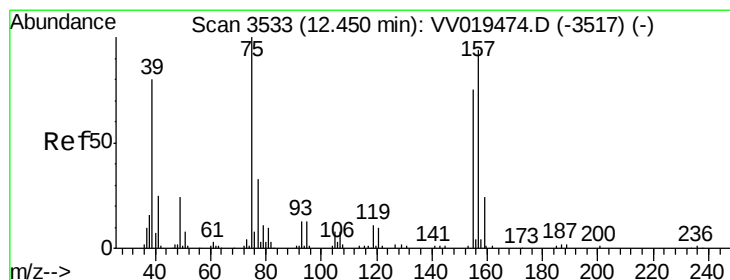
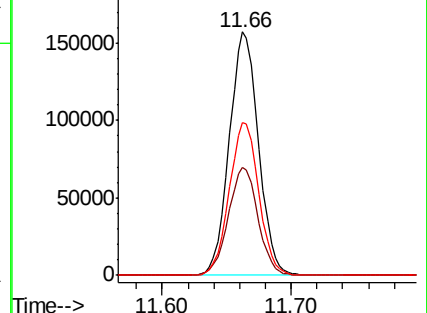
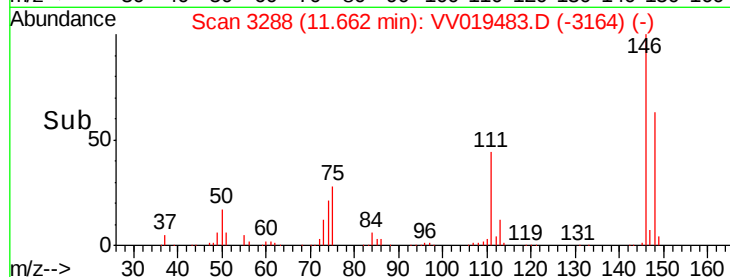
148 63.0 49.8 74.8



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: 53.832 ug/L

RT: 12.45 min Scan# 3532

Delta R.T. -0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

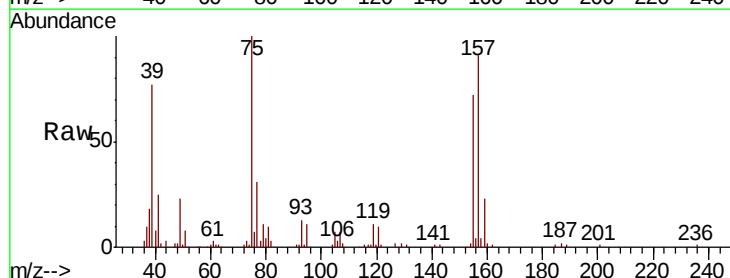
Tgt Ion: 75 Resp: 45760

Ion Ratio Lower Upper

75 100

155 71.6 64.5 96.7

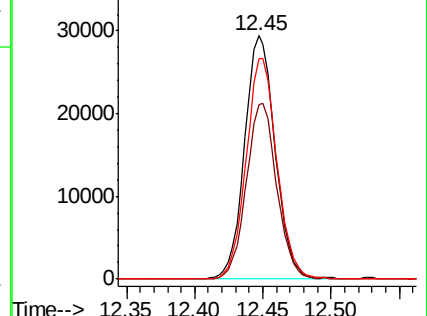
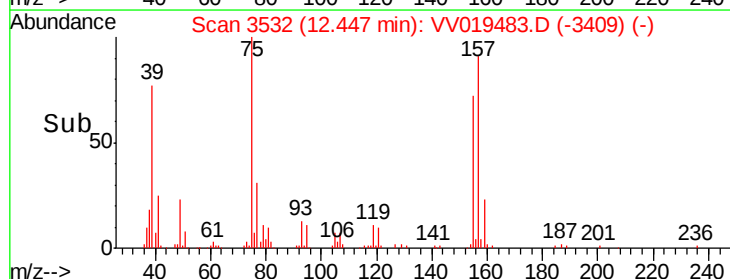
157 90.6 84.2 126.2

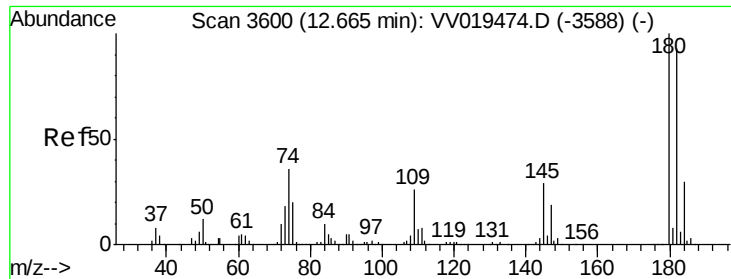


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

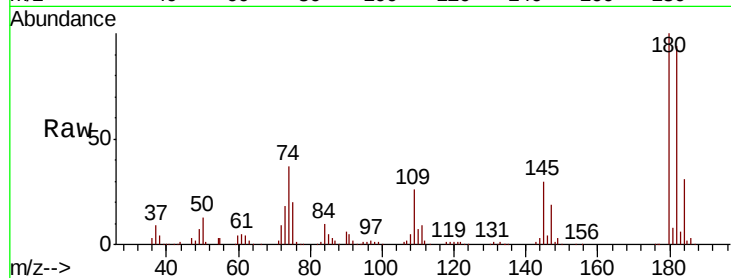




#67
 1,3,5-Trichlorobenzene
 Concen: 49.398 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019483.D
 Acq: 04 Dec 2020 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	77.0	115.4
184	29.6	24.2	36.2
145	30.3	23.2	34.8



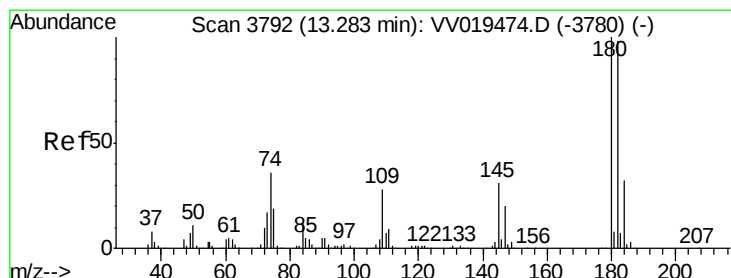
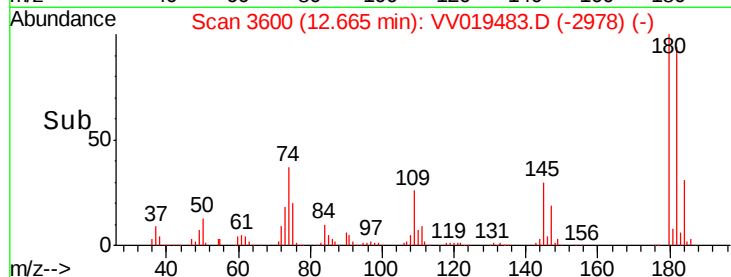
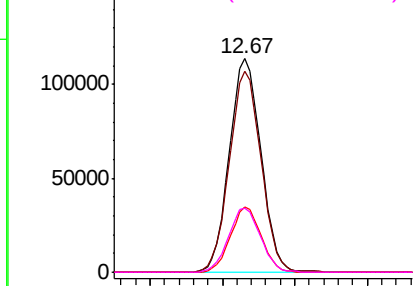
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

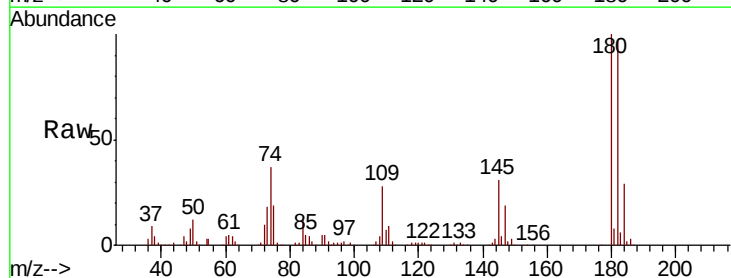
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.250 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019483.D
 Acq: 04 Dec 2020 17:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.3	114.5
145	30.8	23.4	35.2

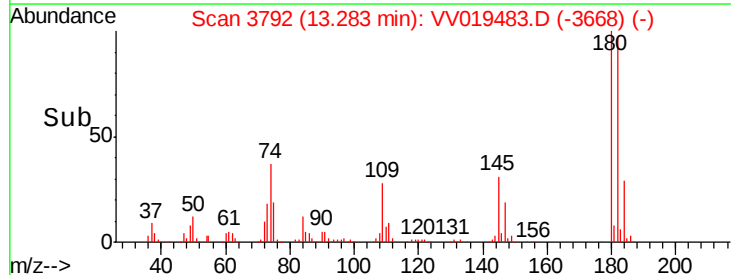
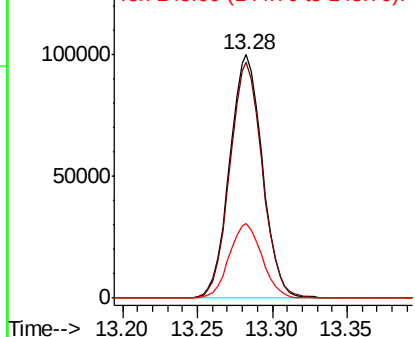


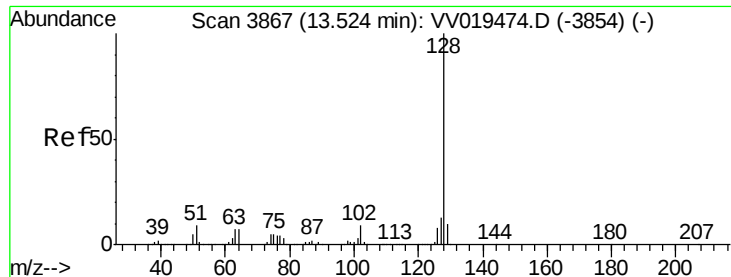
Abundance

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: 50.129 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

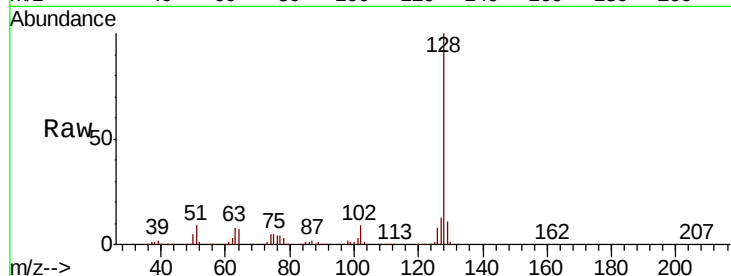
Tot Ion:128 Resp: 393089

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

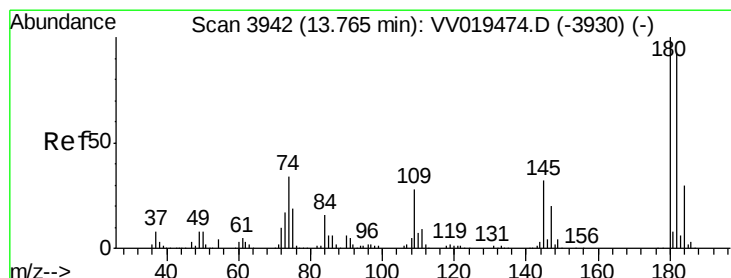
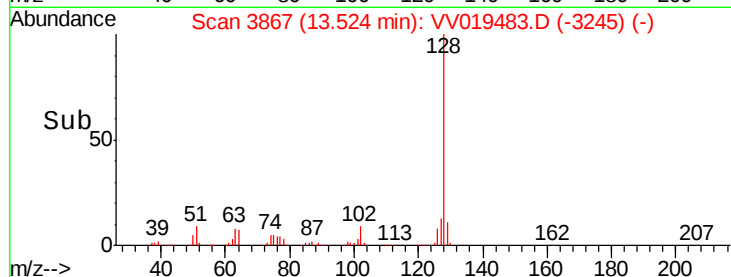
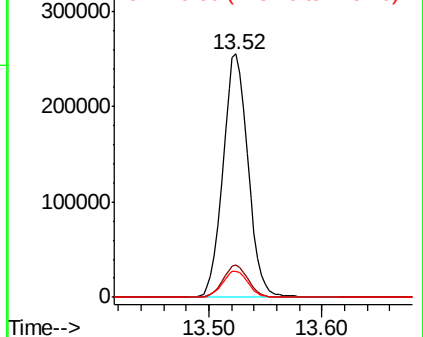
129 11.0 8.6 13.0



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: 49.861 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV019483.D

Acq: 04 Dec 2020 17:11

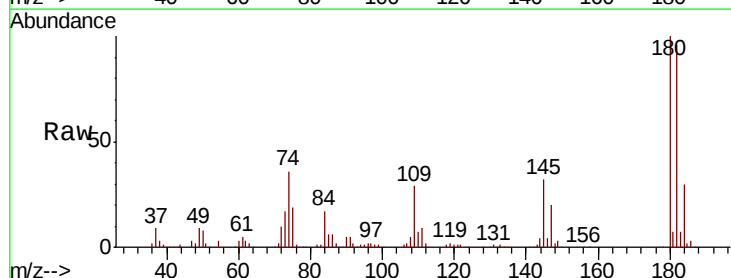
Tgt Ion:180 Resp: 160717

Ion Ratio Lower Upper

180 100

182 95.0 76.6 115.0

145 32.7 25.0 37.6



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

