

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122019\
 Data File : VN059678.D
 Acq On : 20 Dec 2019 14:08
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 20 16:33:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N122019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 20 16:30:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	225481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	360721	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	261235	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136241	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	61296	18.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.92%	
35) Dibromofluoromethane	7.57	113	44762	20.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.38%	
50) Toluene-d8	10.08	98	181203	20.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.22%	
62) 4-Bromofluorobenzene	12.40	95	60832	19.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	65702	22.448	ug/l	97
3) Chloromethane	2.04	50	88317	20.367	ug/l	98
4) Vinyl Chloride	2.16	62	68025	16.083	ug/l	100
5) Bromomethane	2.54	94	31896	13.017	ug/l	93
6) Chloroethane	2.68	64	31066	12.954	ug/l	97
7) Trichlorofluoromethane	3.00	101	55598	12.456	ug/l	97
8) Diethyl Ether	3.38	74	27754	18.699	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	39417	16.682	ug/l	99
10) Methyl Iodide	3.92	142	51349	16.674	ug/l	99
11) Tert butyl alcohol	4.75	59	43350	74.847	ug/l	98
12) 1,1-Dichloroethene	3.71	96	38705	16.826	ug/l	98
13) Acrolein	3.58	56	27801	74.796	ug/l	97
14) Allyl chloride	4.29	41	86194	18.174	ug/l	96
15) Acrylonitrile	4.95	53	165838	117.050	ug/l	97
16) Acetone	3.79	43	135578	73.205	ug/l	100
17) Carbon Disulfide	4.02	76	165552	20.836	ug/l	99
18) Methyl Acetate	4.29	43	84878	20.892	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	174364	21.382	ug/l	97
20) Methylene Chloride	4.52	84	81717	29.534	ug/l	97
21) trans-1,2-Dichloroethene	5.00	96	54956	21.406	ug/l	95
22) Diisopropyl ether	5.92	45	161122	18.433	ug/l	99
23) Vinyl Acetate	5.86	43	615097	90.429	ug/l	100
24) 1,1-Dichloroethane	5.82	63	89893	18.176	ug/l	99
25) 2-Butanone	6.81	43	185294	82.109	ug/l	98
26) 2,2-Dichloropropane	6.80	77	80740	17.906	ug/l	98
27) cis-1,2-Dichloroethene	6.80	96	50211	17.604	ug/l	98
28) Bromochloromethane	7.17	49	34595	21.014	ug/l	98
29) Tetrahydrofuran	7.18	42	126243	89.919	ug/l	98
30) Chloroform	7.35	83	89604	17.765	ug/l	99
31) Cyclohexane	7.63	56	106529	22.366	ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	89959	20.243	ug/l	98
36) 1,1-Dichloropropene	7.77	75	81124	21.740	ug/l	99
37) Ethyl Acetate	6.90	43	75902	17.463	ug/l	98
38) Carbon Tetrachloride	7.75	117	77542	19.986	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	76710	17.517	ug/l	97
40) Benzene	8.02	78	244710	22.425	ug/l	100
41) Methacrylonitrile	7.18	41	110233	62.144	ug/l #	100
42) 1,2-Dichloroethane	8.10	62	83176	19.598	ug/l	98
43) Isopropyl Acetate	8.14	43	137223	19.987	ug/l	99
44) Trichloroethene	8.82	130	49648	17.490	ug/l	97
45) 1,2-Dichloropropane	9.10	63	57667	18.869	ug/l	100
46) Dibromomethane	9.19	93	40365	20.672	ug/l	96
47) Bromodichloromethane	9.39	83	80443	20.625	ug/l	99
48) Methyl methacrylate	9.18	41	58741	18.961	ug/l	93
49) 1,4-Dioxane	9.18	88	14888	344.675	ug/l	96
51) 4-Methyl-2-Pentanone	9.97	43	372522	91.433	ug/l	100
52) Toluene	10.14	92	143840	20.866	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	91884	20.331	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	81285	17.278	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	56727	21.230	ug/l	99
56) Ethyl methacrylate	10.42	69	79941	20.332	ug/l	93
57) 1,3-Dichloropropane	10.70	76	98434	20.781	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	83431	64.685	ug/l	99
59) 2-Hexanone	10.74	43	310574	96.611	ug/l	98
60) Dibromochloromethane	10.89	129	48084	16.437	ug/l	98
61) 1,2-Dibromoethane	11.00	107	45765	15.938	ug/l	100
64) Tetrachloroethene	10.62	164	62054	25.985	ug/l	99
65) Chlorobenzene	11.43	112	119626	21.489	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	45691	21.070	ug/l	99
67) Ethyl Benzene	11.51	91	220263	21.243	ug/l	99
68) m/p-Xylenes	11.62	106	167123	45.894	ug/l	98
69) o-Xylene	11.94	106	79917	23.442	ug/l	99
70) Styrene	11.96	104	123189	22.575	ug/l	99
71) Bromoform	12.12	173	38871	25.488	ug/l #	98
73) Isopropylbenzene	12.25	105	241561	22.320	ug/l	100
74) N-amyl acetate	12.07	43	97213	19.691	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	75106	21.669	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	111710	32.130	ug/l #	100
77) Bromobenzene	12.52	156	58843	21.913	ug/l	96
78) n-propylbenzene	12.59	91	284631	22.030	ug/l	100
79) 2-Chlorotoluene	12.67	91	172898	22.154	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	207271	22.286	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.29	75	28552	20.509	ug/l	96
82) 4-Chlorotoluene	12.77	91	175834	21.831	ug/l	99
83) tert-Butylbenzene	12.99	119	164020	21.160	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	194099	20.932	ug/l	99
85) sec-Butylbenzene	13.17	105	221477	21.116	ug/l	98
86) p-Isopropyltoluene	13.28	119	200031	21.666	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	101260	21.064	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	97897	20.264	ug/l	98
89) n-Butylbenzene	13.61	91	171799	19.889	ug/l	98
90) Hexachloroethane	13.87	117	34237	19.334	ug/l	86
91) 1,2-Dichlorobenzene	13.65	146	101482	21.520	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	15121	15.031	ug/l	81

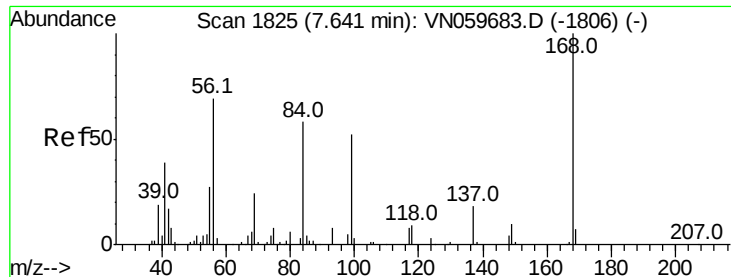
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	57791	18.974	ug/l	99
94) Hexachlorobutadiene	15.00	225	36691	22.370	ug/l	98
95) Naphthalene	15.12	128	160388	17.746	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	58681	18.834	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

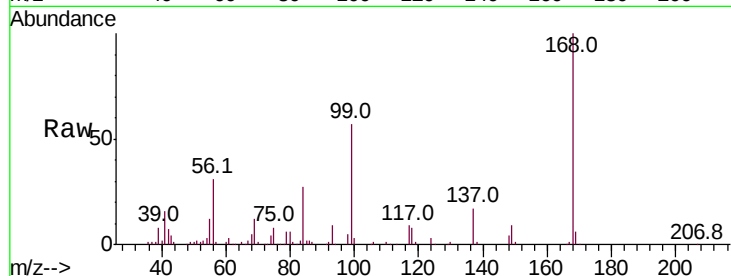
ClientSampleId :

Tot Ion:168 Resp: 225481

Ion Ratio Lower Upper

168 100

99 56.8 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VN059678.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059678.D (-1732) (-)

7.64

100000

80000

60000

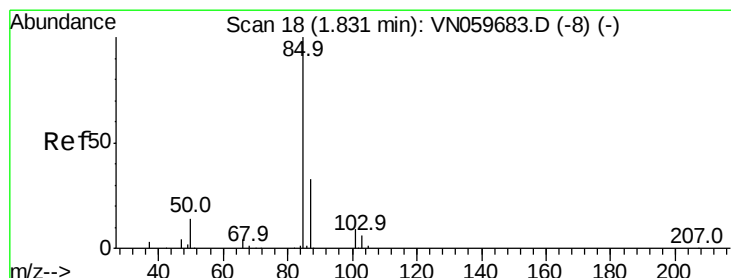
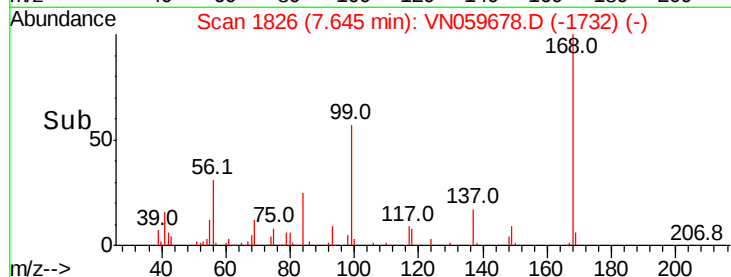
40000

20000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 22.448 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN059678.D

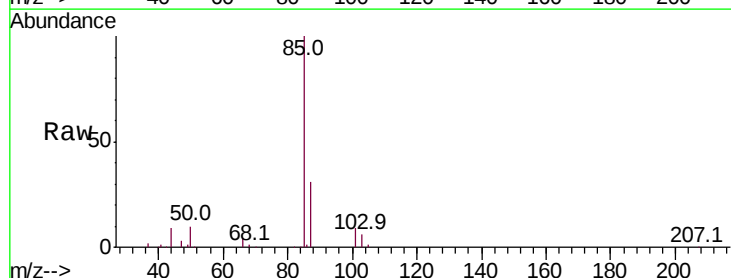
Acq: 20 Dec 2019 14:08

Tgt Ion: 85 Resp: 65702

Ion Ratio Lower Upper

85 100

87 31.2 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN059678.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN059678.D (-1) (-)

1.83

60000

50000

40000

30000

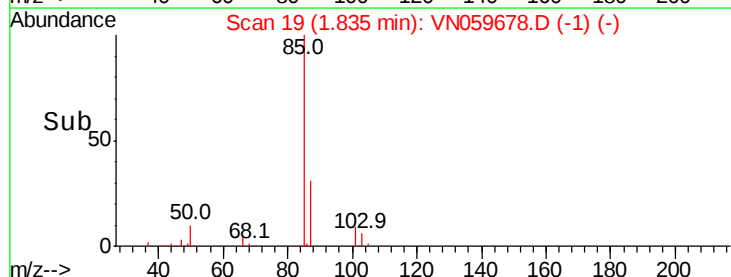
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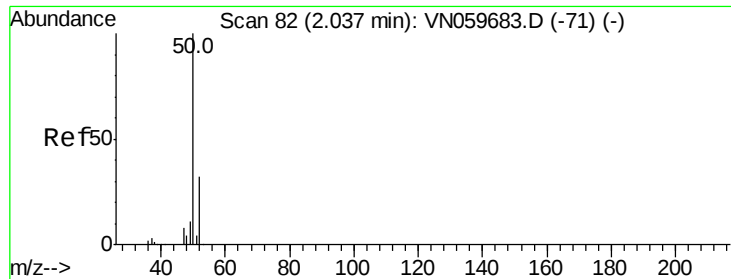
10000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 20.367 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

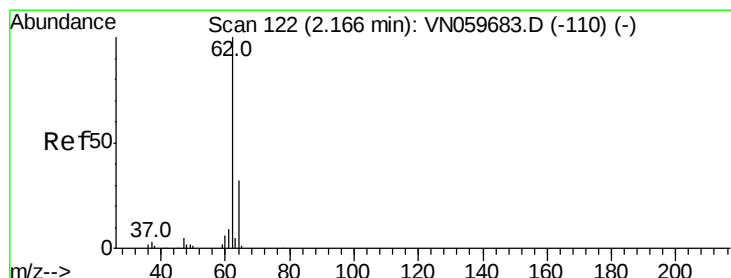
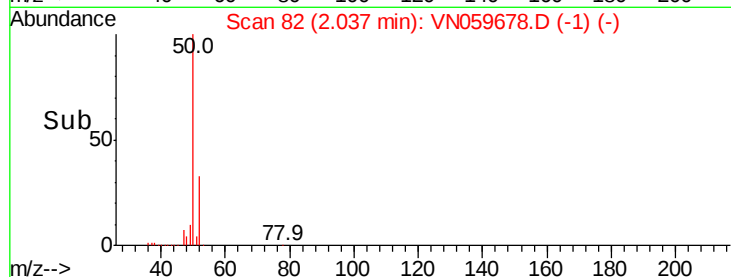
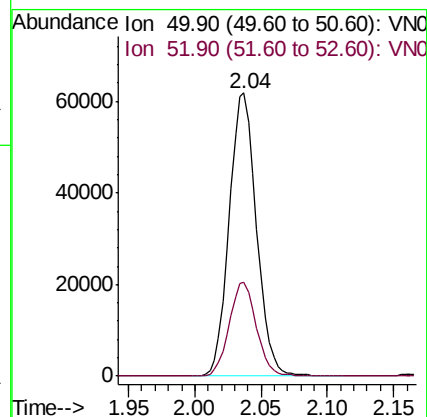
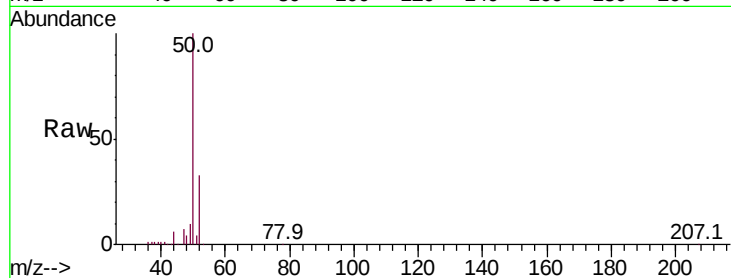
ClientSampleId :

Tot Ion: 50 Resp: 88317

Ion Ratio Lower Upper

50 100

52 33.1 25.5 38.3



#4

Vinyl Chloride

Concen: 16.083 ug/l

RT: 2.16 min Scan# 121

Delta R.T. -0.00 min

Lab File: VN059678.D

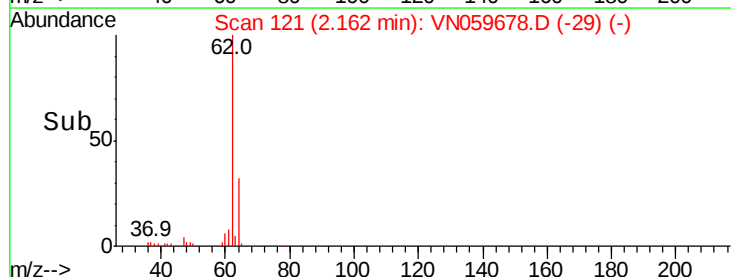
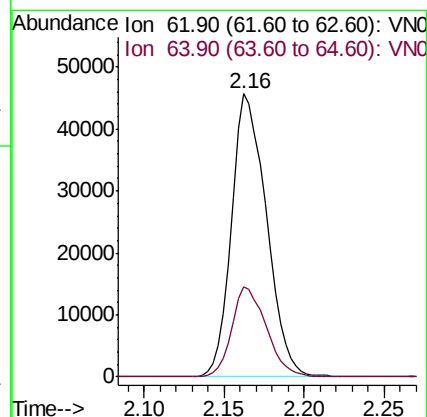
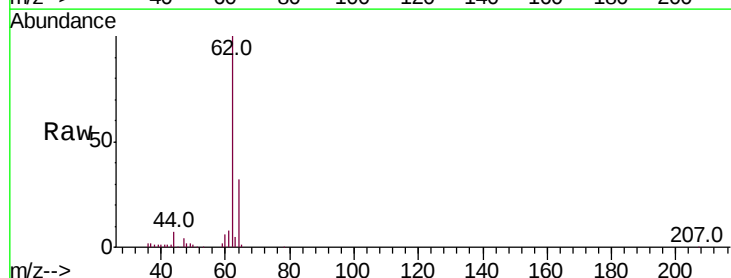
Acq: 20 Dec 2019 14:08

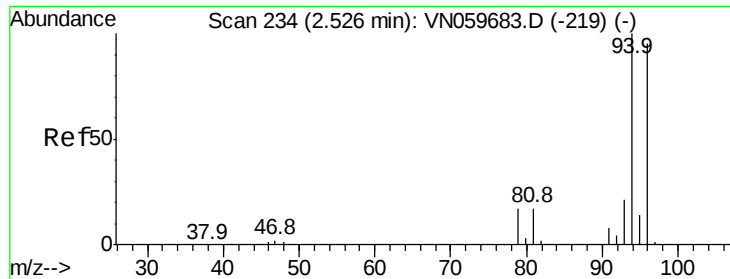
Tgt Ion: 62 Resp: 68025

Ion Ratio Lower Upper

62 100

64 31.9 25.4 38.0

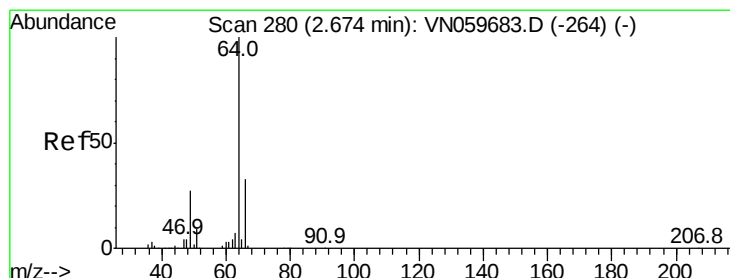
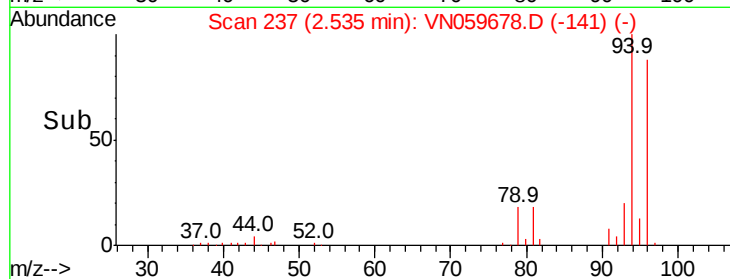
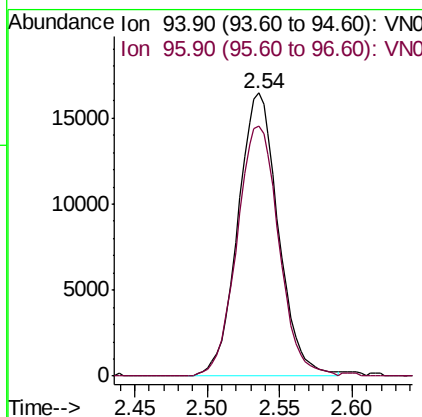
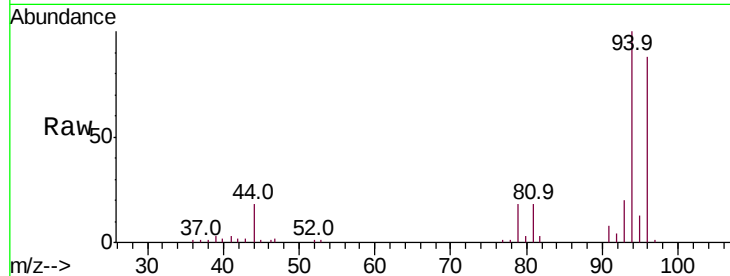




#5
Bromomethane
Concen: 13.017 ug/l
RT: 2.54 min Scan# 237
Delta R.T. 0.01 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

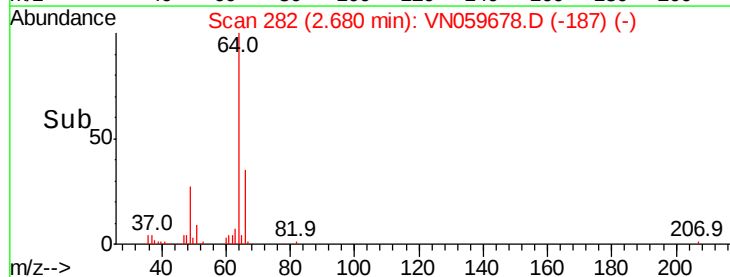
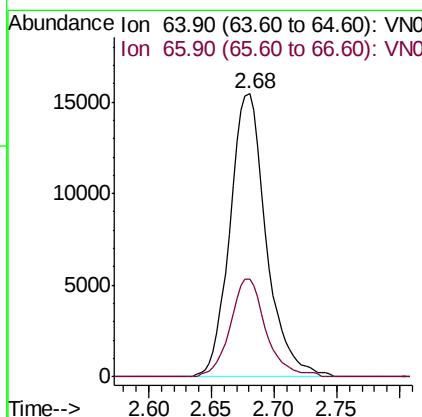
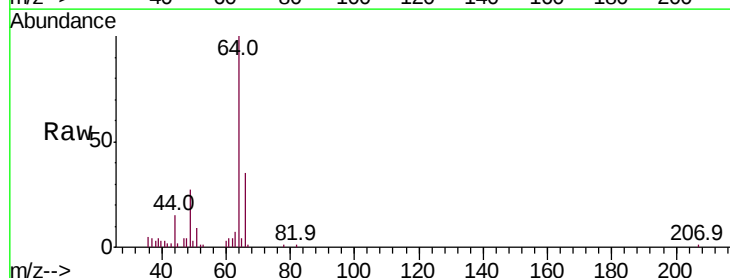
Instrument :
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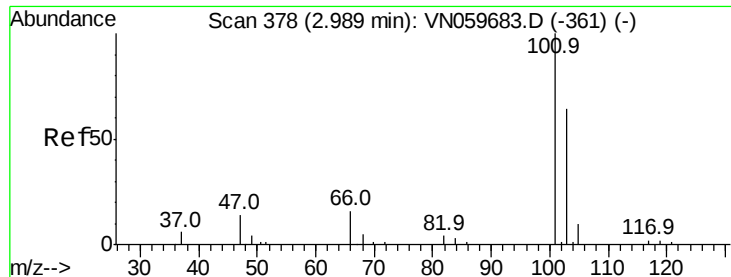
Tot Ion: 94 Resp: 31896
Ion Ratio Lower Upper
94 100
96 88.3 75.8 113.6



#6
Chloroethane
Concen: 12.954 ug/l
RT: 2.68 min Scan# 282
Delta R.T. 0.01 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 64 Resp: 31066
Ion Ratio Lower Upper
64 100
66 34.5 26.1 39.1



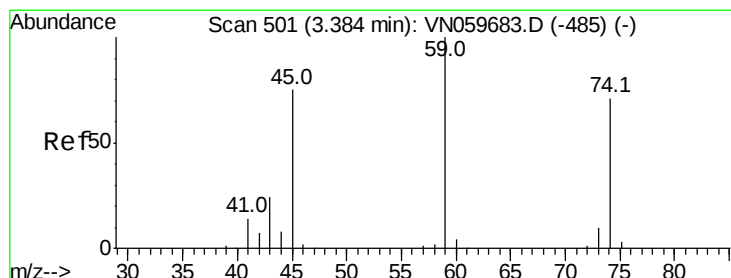
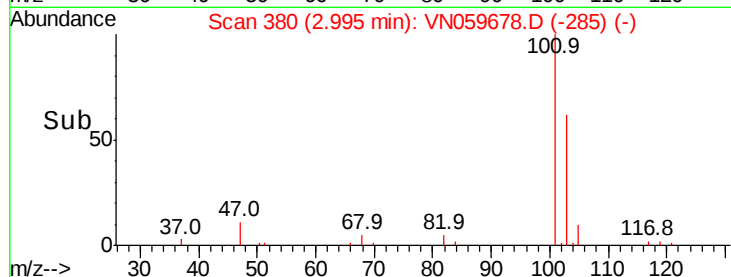
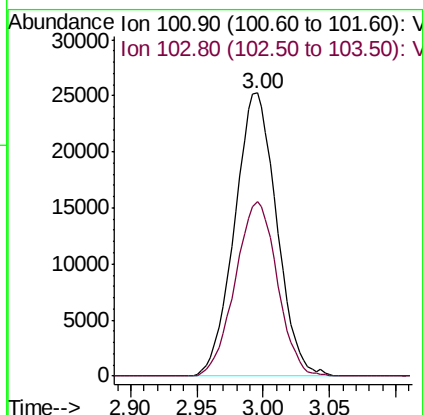
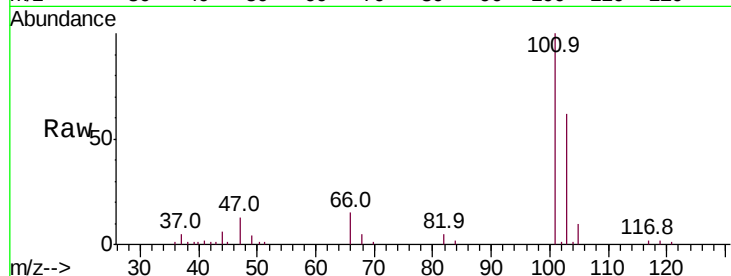


#7

Trichlorofluoromethane
 Concen: 12.456 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. 0.01 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Instrument :
 MSVOA_X
 ClientSampled :

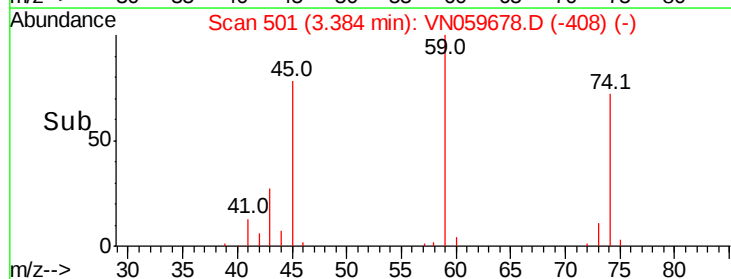
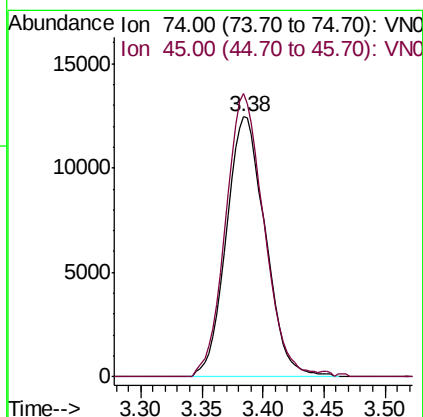
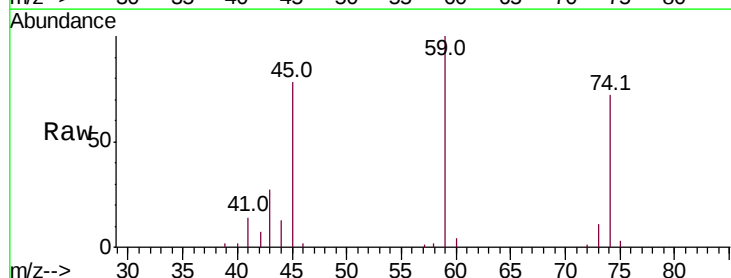
Tot Ion:101 Resp: 55598
 Ion Ratio Lower Upper
 101 100
 103 61.7 51.2 76.8

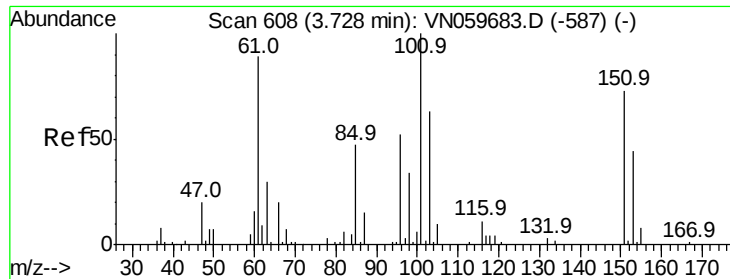


#8

Diethyl Ether
 Concen: 18.699 ug/l
 RT: 3.38 min Scan# 501
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Tgt Ion: 74 Resp: 27754
 Ion Ratio Lower Upper
 74 100
 45 107.3 54.4 163.1

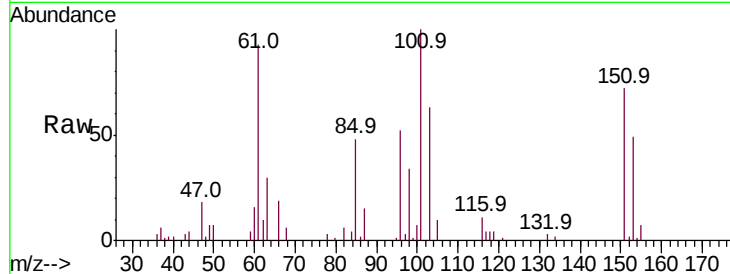




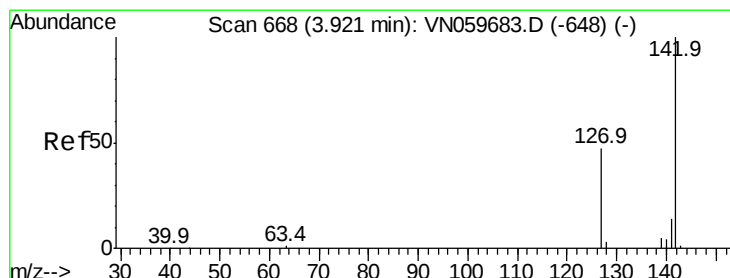
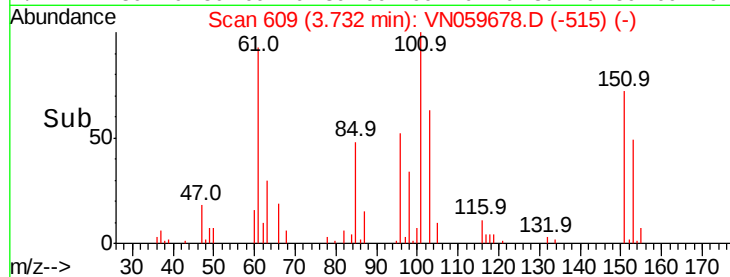
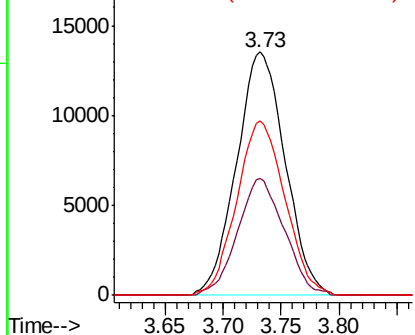
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 16.682 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:101 Resp: 39417
 Ion Ratio Lower Upper
 101 100
 85 46.0 36.5 54.7
 151 71.1 57.6 86.4

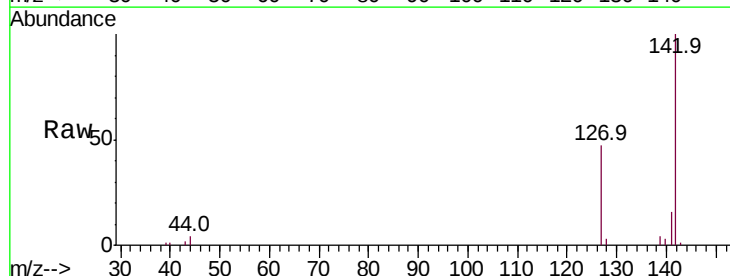


Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 84.90 (84.60 to 85.60): V
 Ion 150.80 (150.50 to 151.50): V

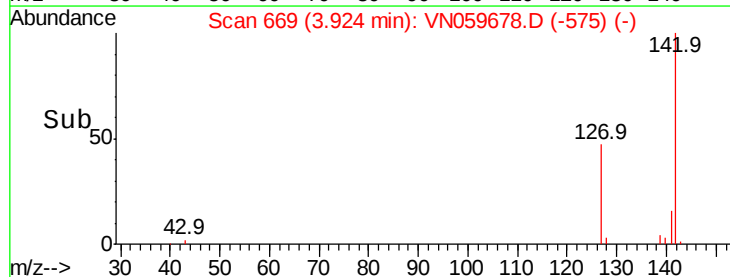
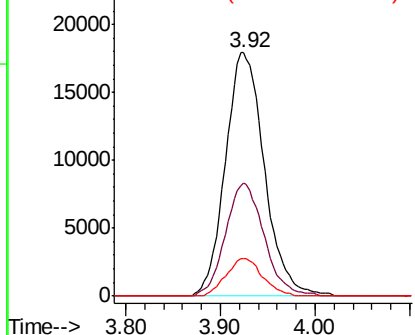


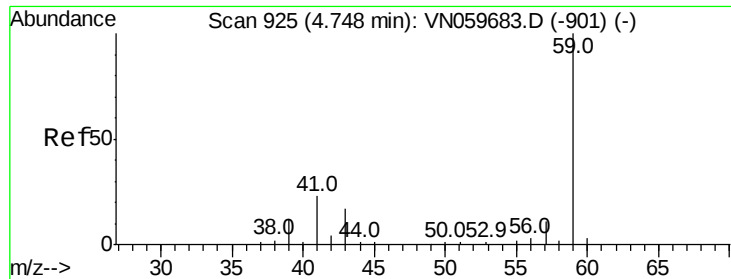
#10
 Methyl Iodide
 Concen: 16.674 ug/l
 RT: 3.92 min Scan# 669
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Tgt Ion:142 Resp: 51349
 Ion Ratio Lower Upper
 142 100
 127 45.8 37.0 55.6
 141 14.4 11.2 16.8



Abundance Ion 141.80 (141.50 to 142.50): V
 Ion 126.80 (126.50 to 127.50): V
 Ion 140.80 (140.50 to 141.50): V

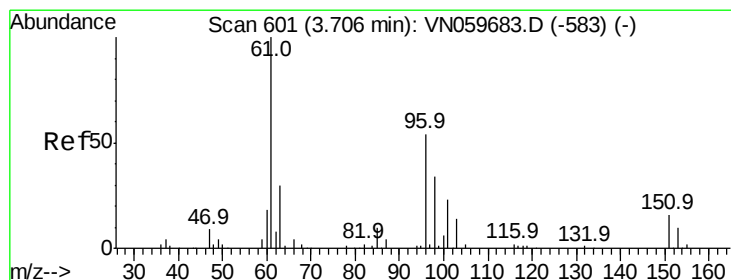
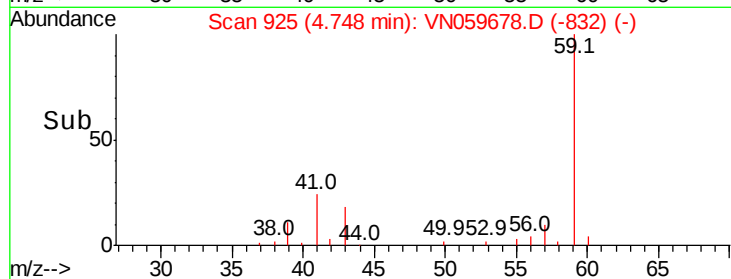
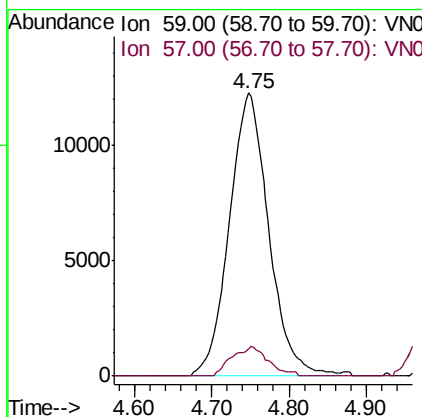
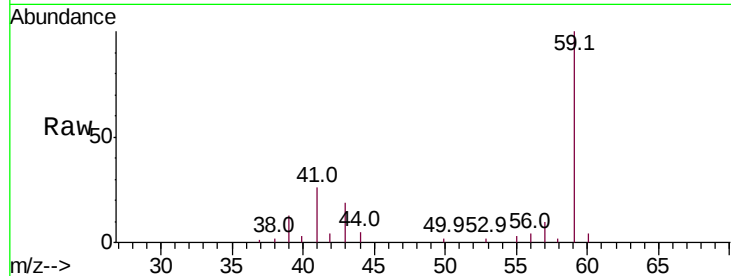




#11
Tert butyl alcohol
Concen: 74.847 ug/l
RT: 4.75 min Scan# 925
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

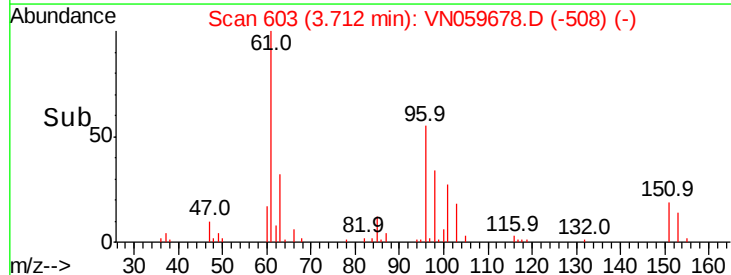
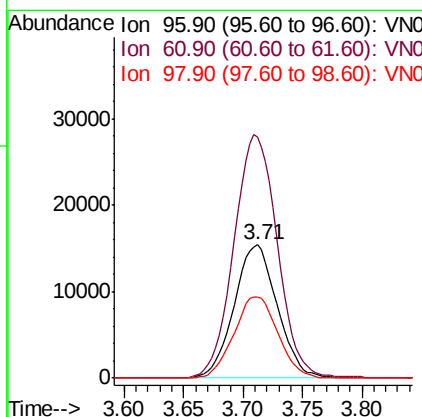
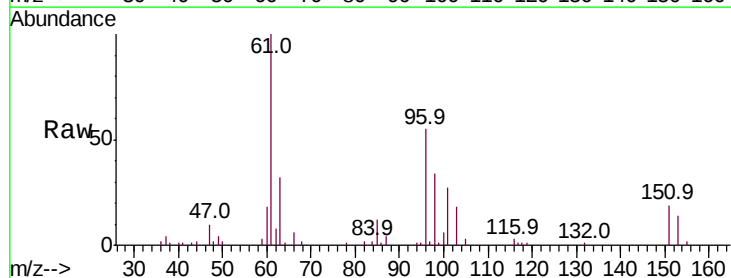
Instrument :
MSVOA_X
ClientSampled :

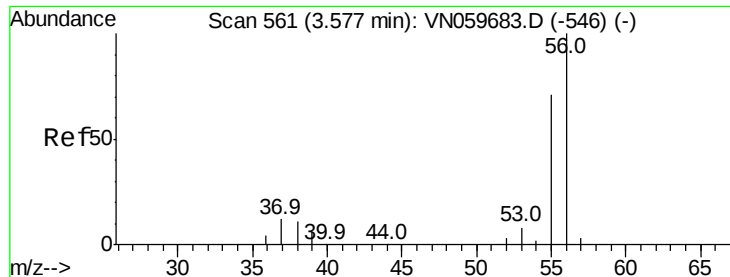
Tot Ion: 59 Resp: 43350
Ion Ratio Lower Upper
59 100
57 9.8 8.3 12.5



#12
1,1-Dichloroethene
Concen: 16.826 ug/l
RT: 3.71 min Scan# 603
Delta R.T. 0.01 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 96 Resp: 38705
Ion Ratio Lower Upper
96 100
61 181.0 147.3 220.9
98 61.1 49.8 74.8





#13

Acrolein

Concen: 74.796 ug/l

RT: 3.58 min Scan# 562

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

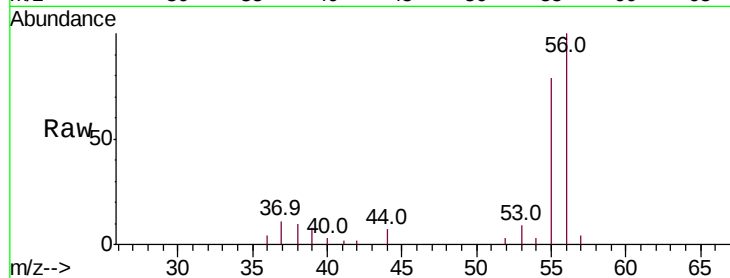
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 27801

Ion Ratio Lower Upper

56 100

55 75.8 58.8 88.2



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12000

10000

8000

6000

4000

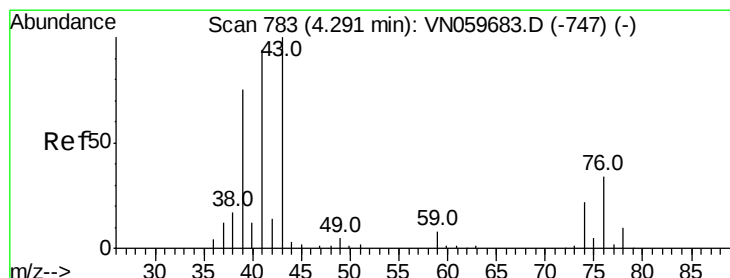
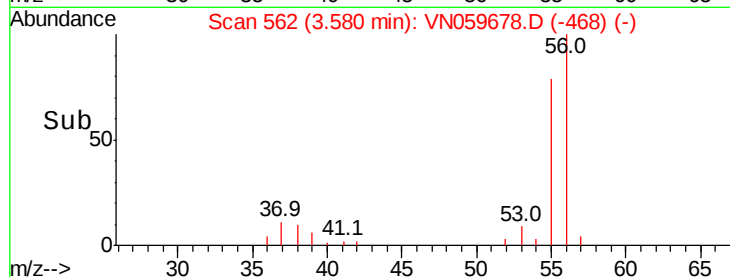
2000

0

Time-->

3.50 3.55 3.60 3.65

3.58



#14

Allyl chloride

Concen: 18.174 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

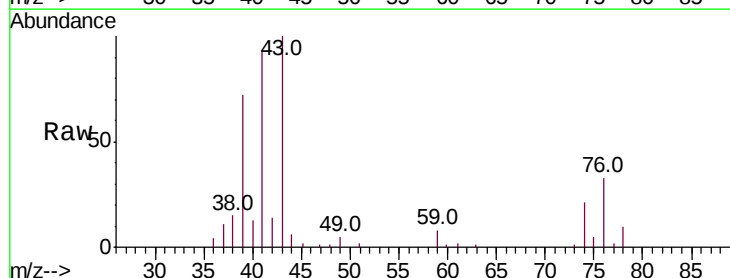
Tgt Ion: 41 Resp: 86194

Ion Ratio Lower Upper

41 100

39 69.2 58.9 88.3

76 31.4 26.0 39.0



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

30000

20000

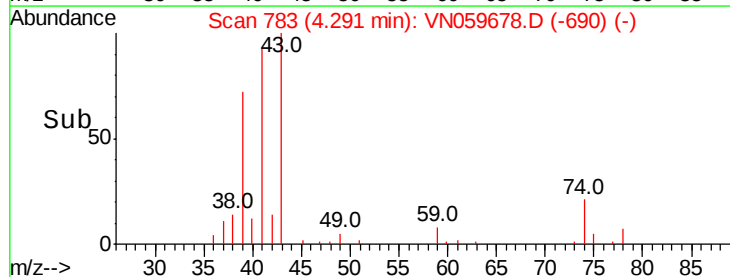
10000

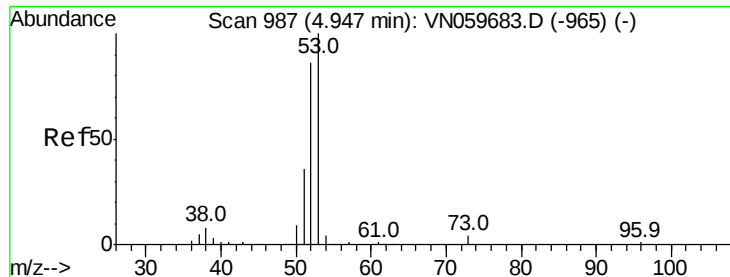
0

Time-->

4.10 4.20 4.30 4.40

4.29





#15

Acrylonitrile

Concen: 117.050 ug/l

RT: 4.95 min Scan# 988

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

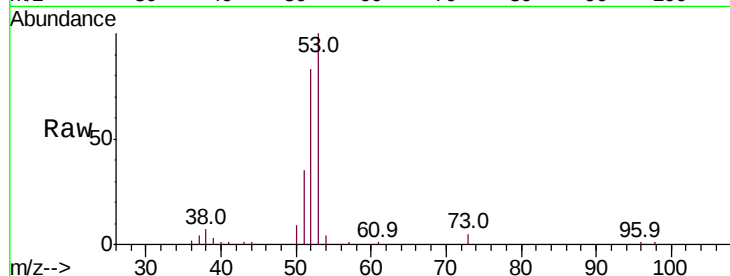
Tot Ion: 53 Resp: 165838

Ion Ratio Lower Upper

53 100

52 81.1 67.1 100.7

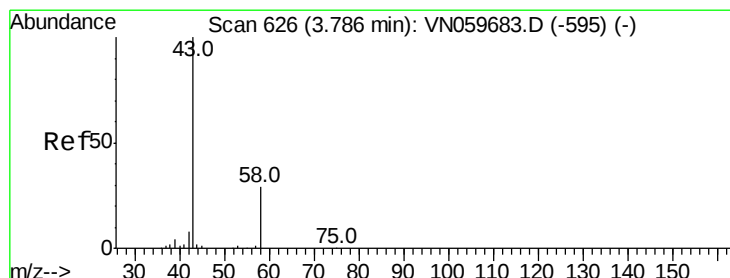
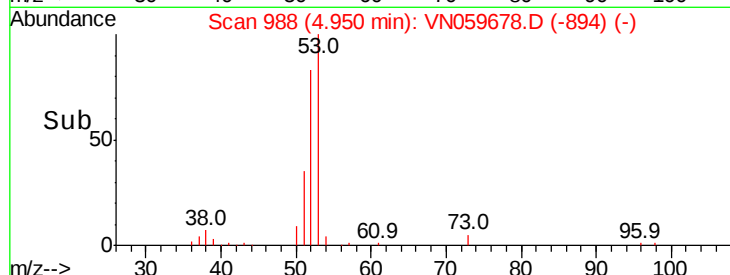
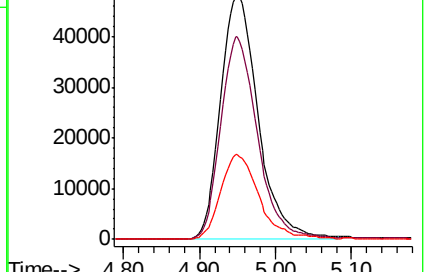
51 35.6 29.8 44.6



Abundance Ion 53.00 (52.70 to 53.70): VN059683.D (-965) (-)

Ion 52.00 (51.70 to 52.70): VN059683.D (-965) (-)

Ion 51.00 (50.70 to 51.70): VN059683.D (-965) (-)



#16

Acetone

Concen: 73.205 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.00 min

Lab File: VN059678.D

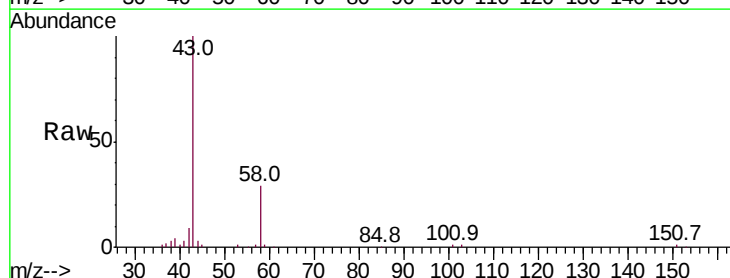
Acq: 20 Dec 2019 14:08

Tgt Ion: 43 Resp: 135578

Ion Ratio Lower Upper

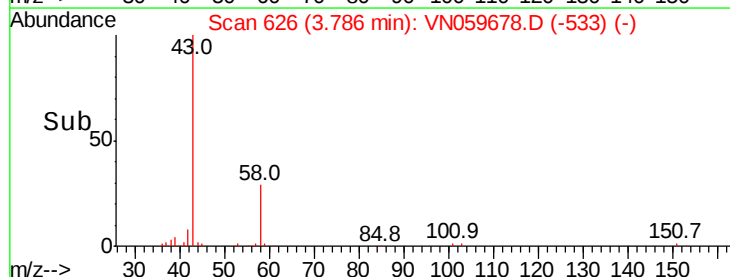
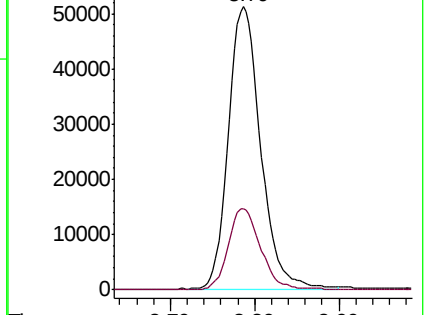
43 100

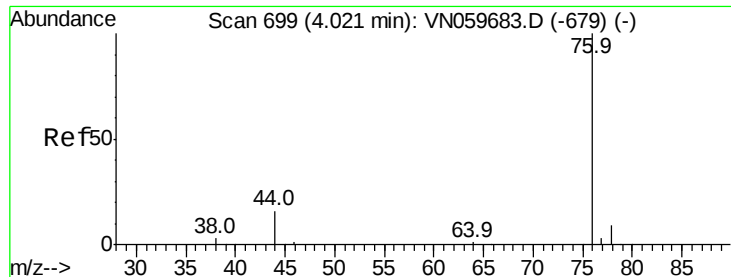
58 28.7 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VN059683.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN059683.D (-595) (-)

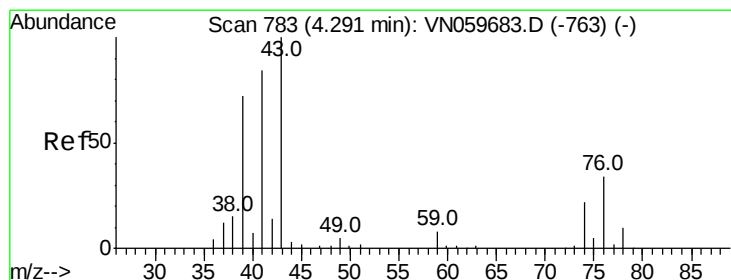
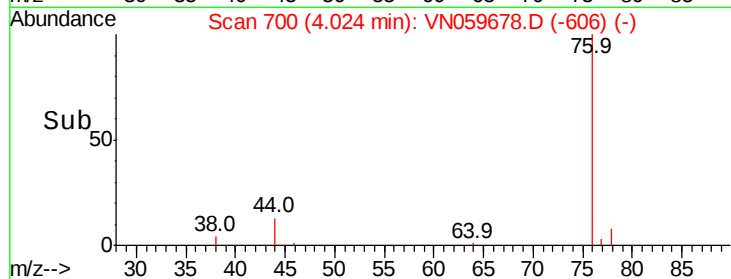
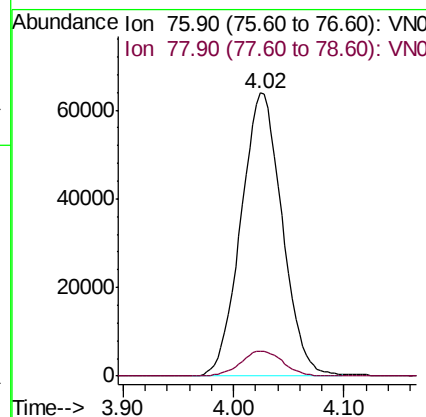
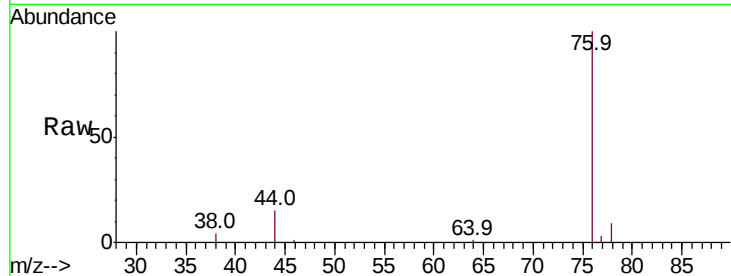




#17
Carbon Disulfide
Concen: 20.836 ug/l
RT: 4.02 min Scan# 700
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

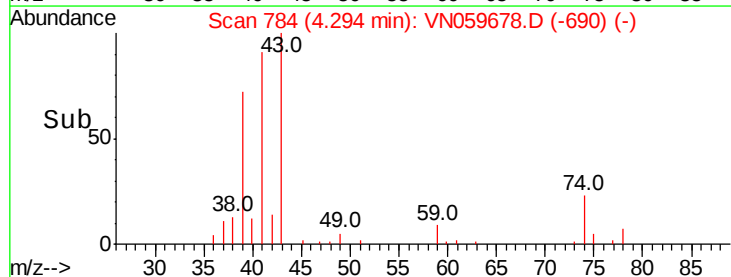
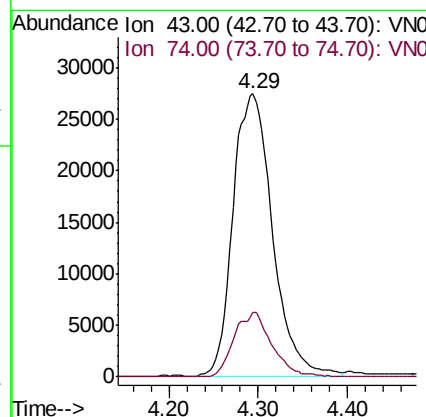
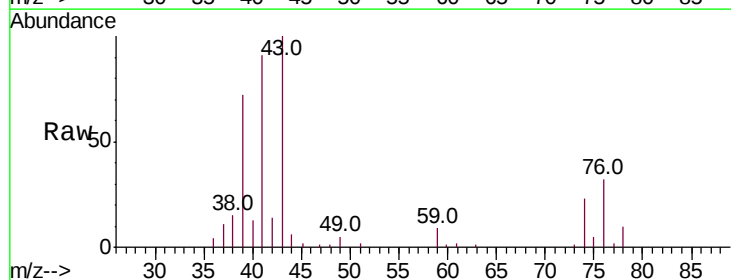
Instrument :
MSVOA_X
ClientSampleId :

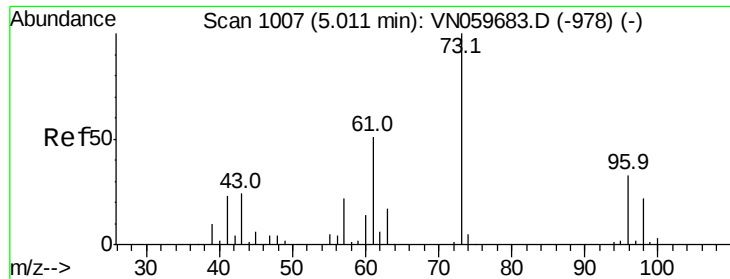
Tot Ion: 76 Resp: 165552
Ion Ratio Lower Upper
76 100
78 8.9 7.3 10.9



#18
Methyl Acetate
Concen: 20.892 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 43 Resp: 84878
Ion Ratio Lower Upper
43 100
74 21.6 17.5 26.3

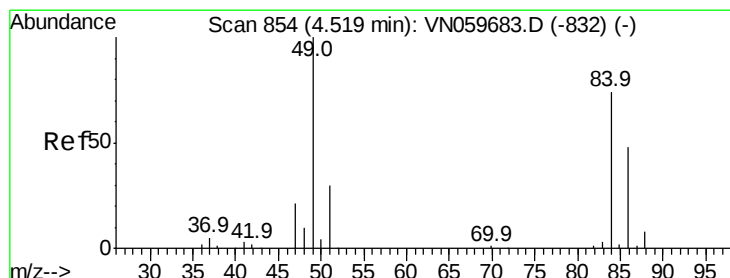
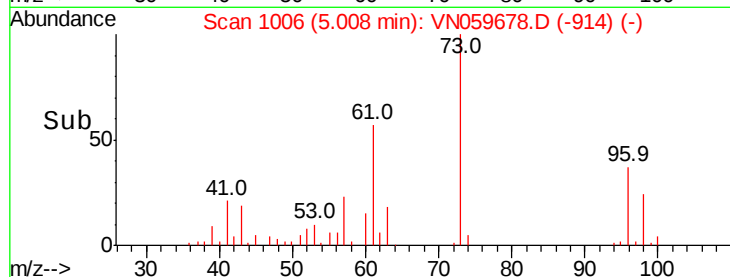
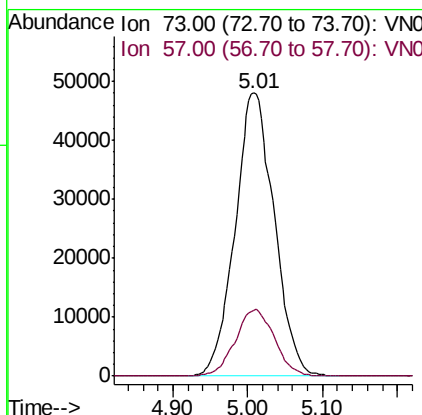
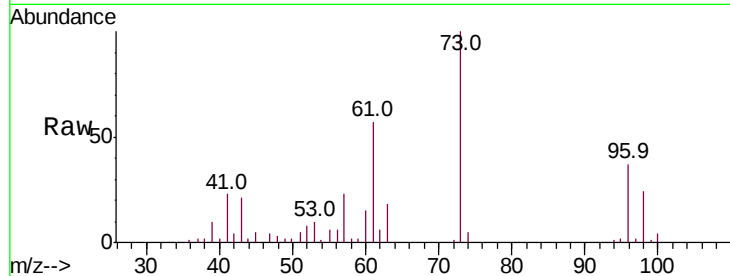




#19
Methvl tert-butvl Ether
Concen: 21.382 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. -0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

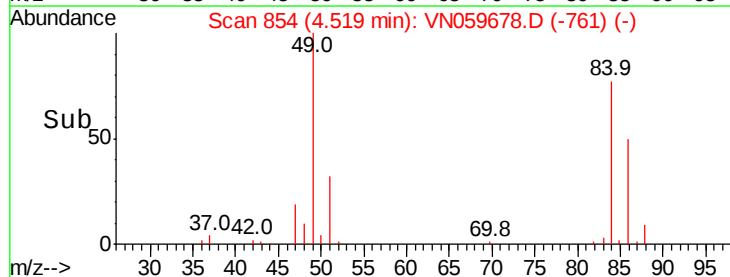
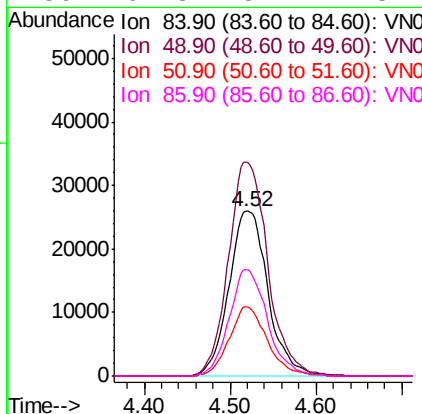
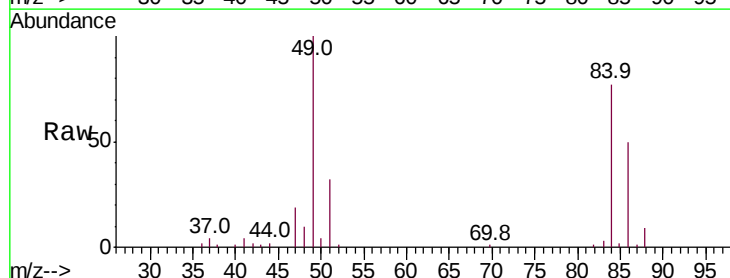
Instrument :
MSVOA_X
ClientSampleId :

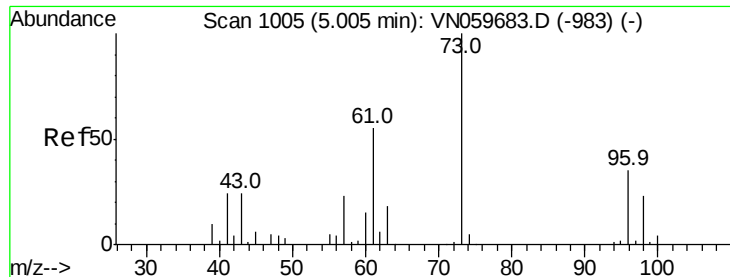
Tot Ion: 73 Resp: 174364
Ion Ratio Lower Upper
73 100
57 23.3 17.6 26.4



#20
Methylene Chloride
Concen: 29.534 ug/l
RT: 4.52 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 84 Resp: 81717
Ion Ratio Lower Upper
84 100
49 129.5 108.0 162.0
51 42.1 32.6 49.0
86 64.3 52.1 78.1





#21

trans-1,2-Dichloroethene

Concen: 21.406 ug/l

RT: 5.00 min Scan# 1005

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :
MSVOA_X
ClientSampleId :

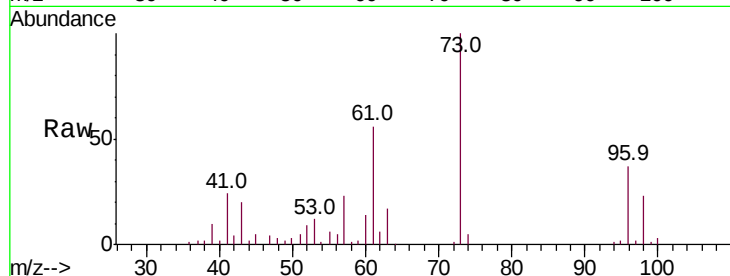
Tot Ion: 96 Resp: 54956

Ion Ratio Lower Upper

96 100

61 149.1 125.6 188.4

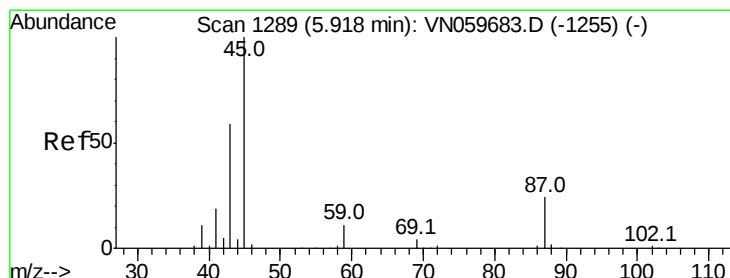
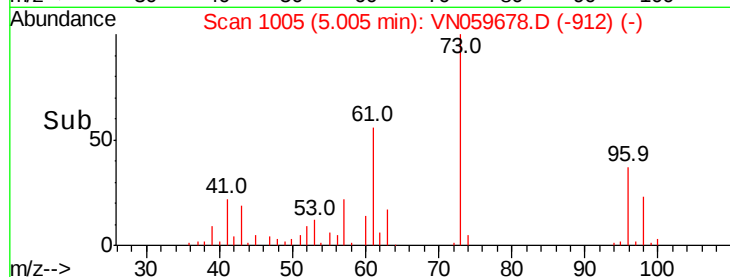
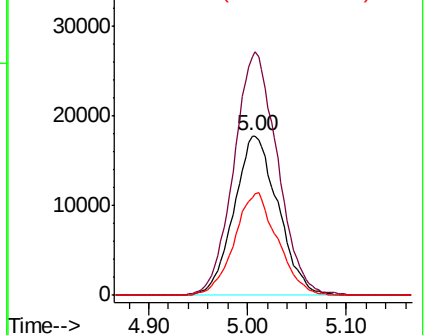
98 61.5 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VN059678.D (-1196) (-)

Ion 60.90 (60.60 to 61.60): VN059678.D (-1196) (-)

Ion 97.90 (97.60 to 98.60): VN059678.D (-1196) (-)



#22

Diisopropyl ether

Concen: 18.433 ug/l

RT: 5.92 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Tgt Ion: 45 Resp: 161122

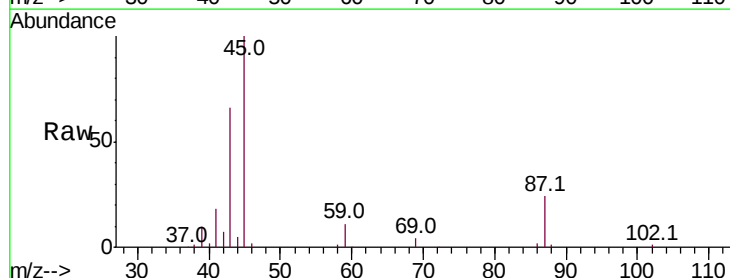
Ion Ratio Lower Upper

45 100

43 64.2 50.4 75.6

87 24.4 20.1 30.1

59 10.7 8.9 13.3

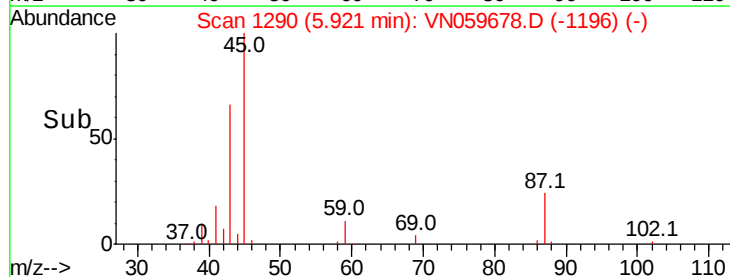
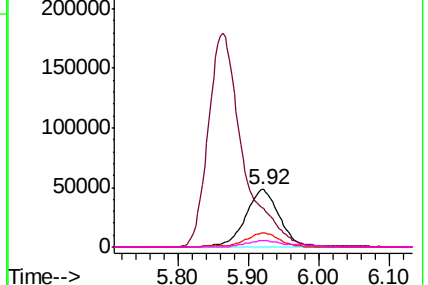


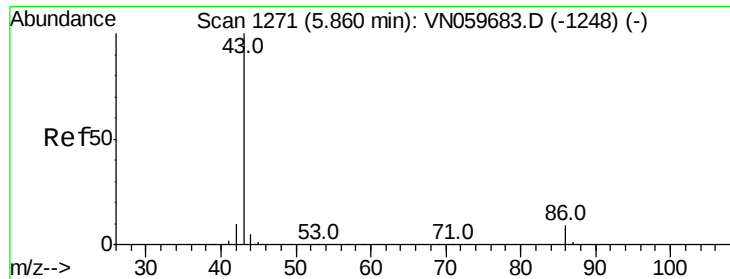
Abundance Ion 45.00 (44.70 to 45.70): VN059678.D (-1196) (-)

Ion 43.00 (42.70 to 43.70): VN059678.D (-1196) (-)

Ion 87.00 (86.70 to 87.70): VN059678.D (-1196) (-)

Ion 59.00 (58.70 to 59.70): VN059678.D (-1196) (-)

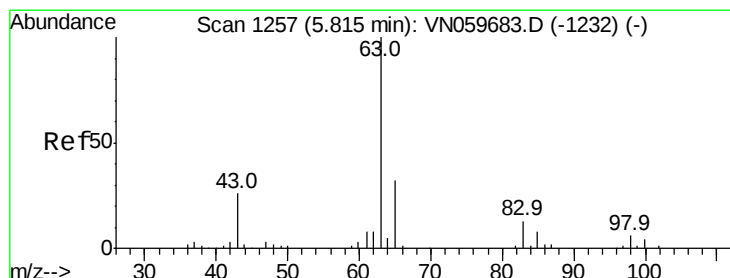
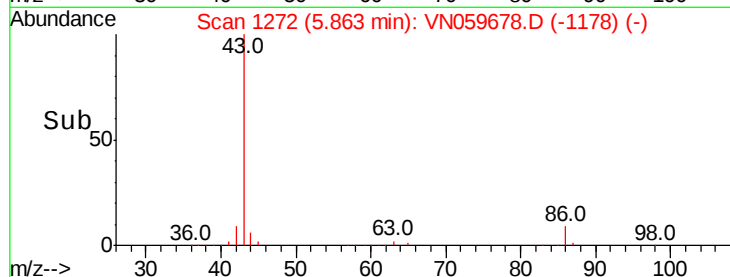
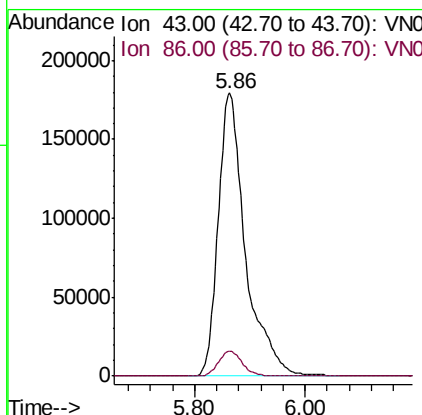
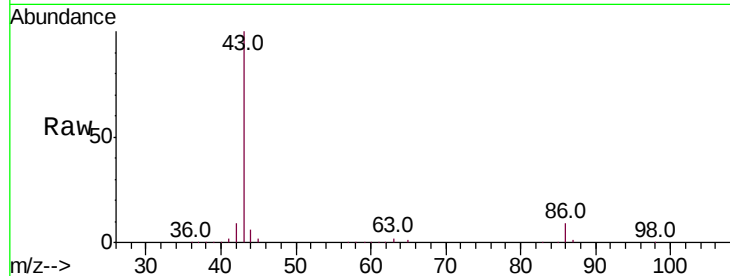




#23
 Vinyl Acetate
 Concen: 90.429 ug/l
 RT: 5.86 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

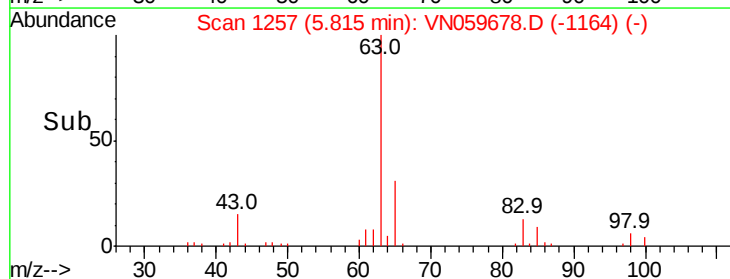
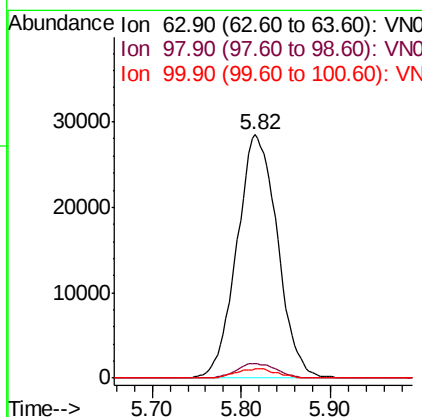
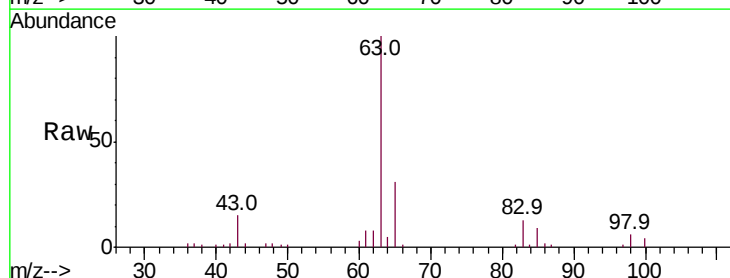
Instrument :
 MSVOA_X
 ClientSampleId :

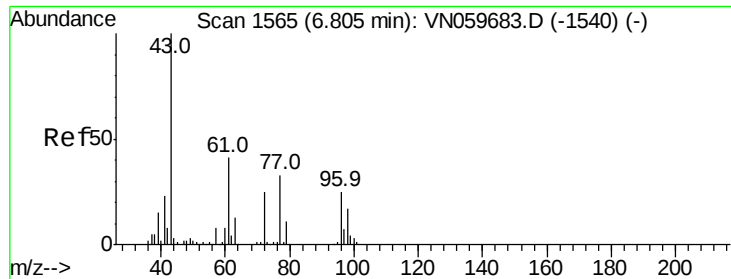
Tot Ion: 43 Resp: 615097
 Ion Ratio Lower Upper
 43 100
 86 9.0 7.2 10.8



#24
 1,1-Dichloroethane
 Concen: 18.176 ug/l
 RT: 5.82 min Scan# 1257
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Tgt Ion: 63 Resp: 89893
 Ion Ratio Lower Upper
 63 100
 98 6.0 2.9 8.6
 100 3.6 2.0 6.0





#25

2-Butanone

Concen: 82.109 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

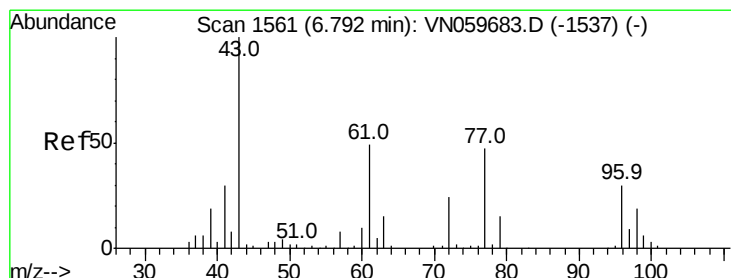
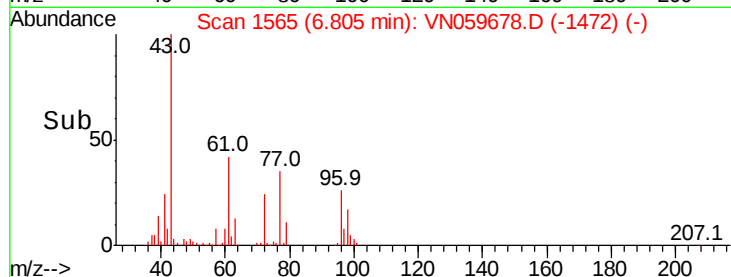
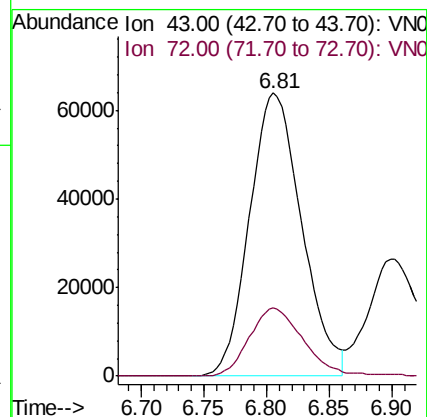
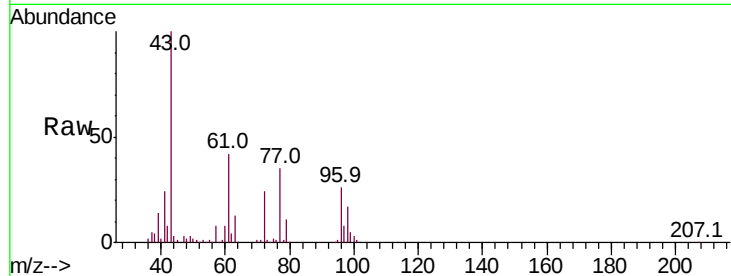
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 185294

Ion Ratio Lower Upper

43 100

72 24.0 19.8 29.8



#26

2,2-Dichloropropane

Concen: 17.906 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VN059678.D

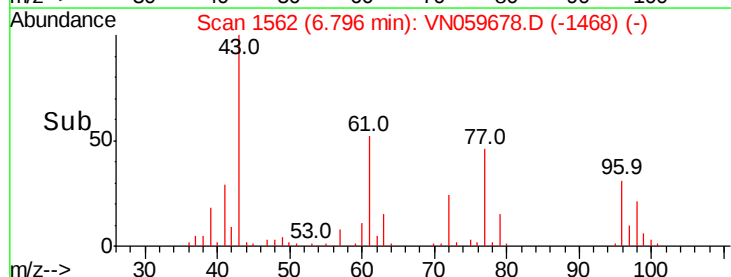
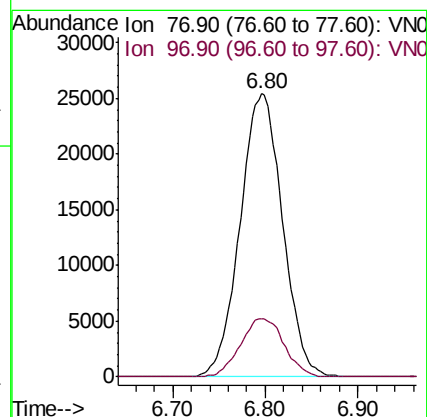
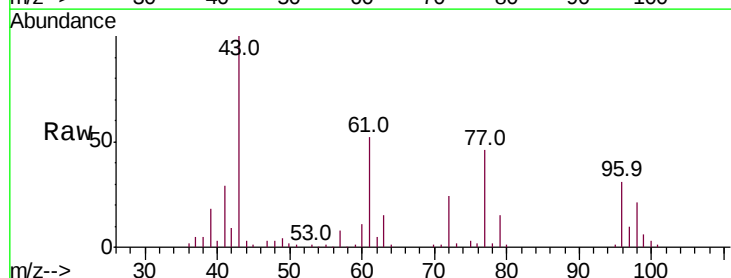
Acq: 20 Dec 2019 14:08

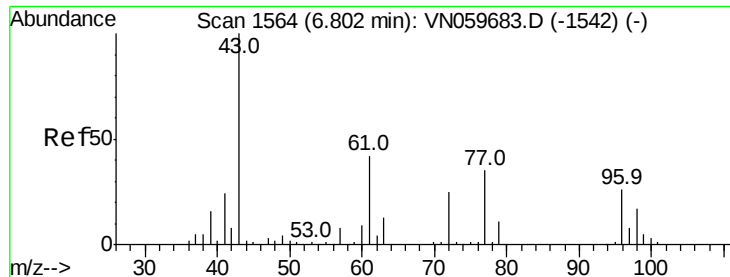
Tgt Ion: 77 Resp: 80740

Ion Ratio Lower Upper

77 100

97 21.2 11.1 33.1

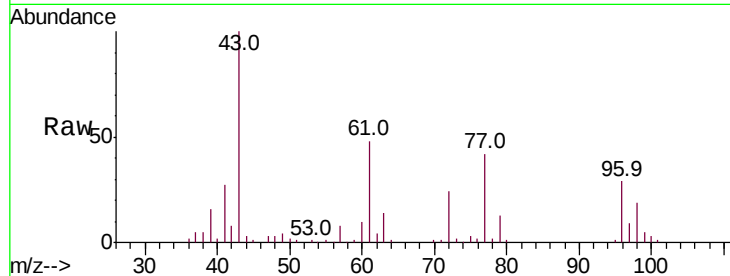




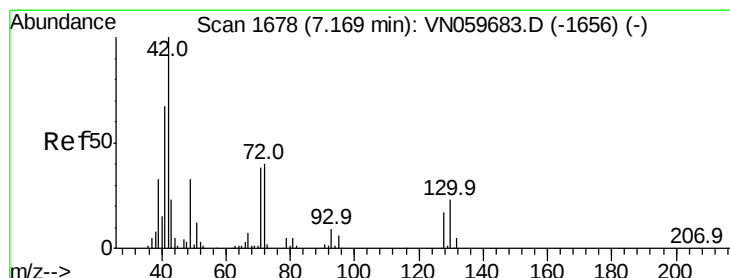
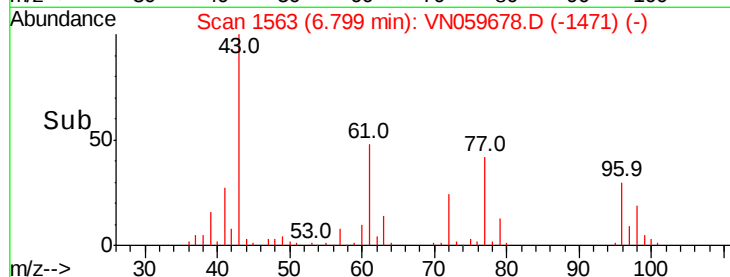
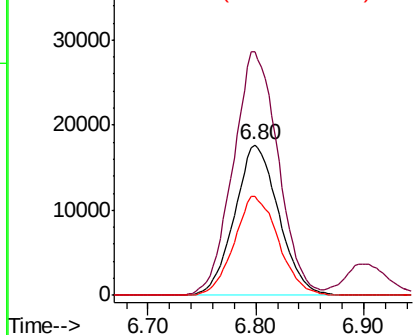
#27
 cis-1,2-Dichloroethene
 Concen: 17.604 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 96 Resp: 50211
 Ion Ratio Lower Upper
 96 100
 61 165.4 0.0 326.4
 98 66.0 0.0 128.2

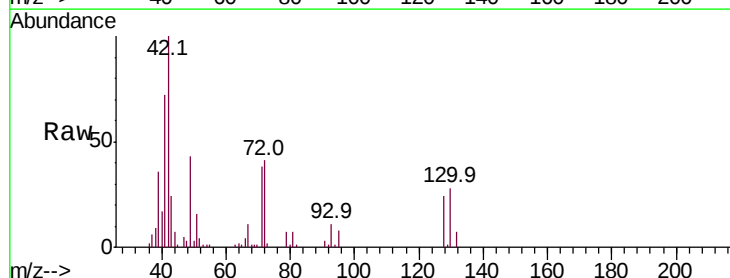


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

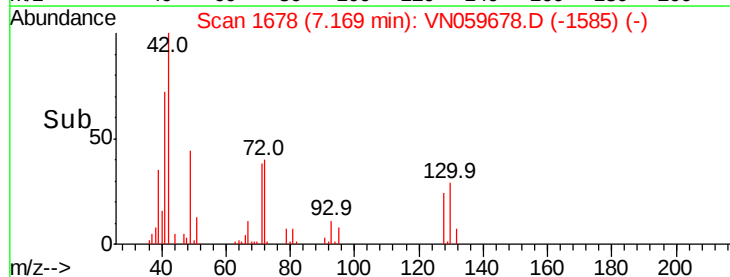
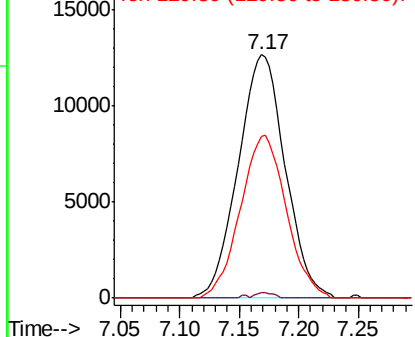


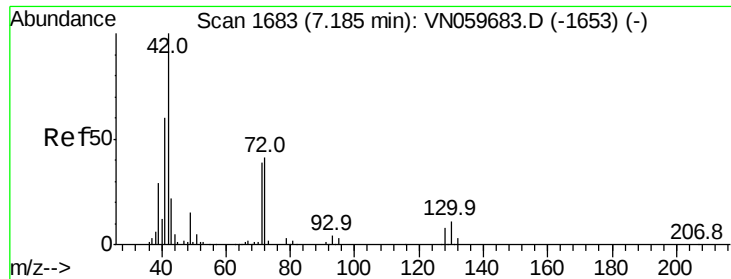
#28
 Bromochloromethane
 Concen: 21.014 ug/l
 RT: 7.17 min Scan# 1678
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Tgt Ion: 49 Resp: 34595
 Ion Ratio Lower Upper
 49 100
 129 0.9 0.0 2.6
 130 65.1 53.3 79.9



Abundance Ion 48.90 (48.60 to 49.60): VN0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

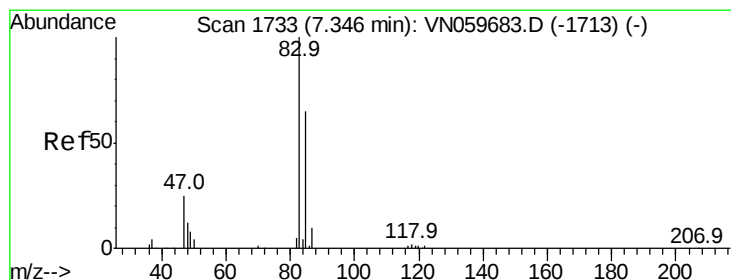
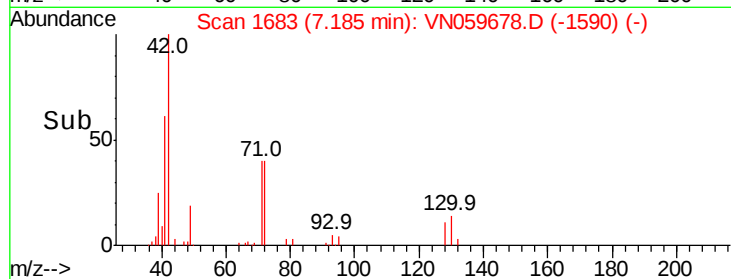
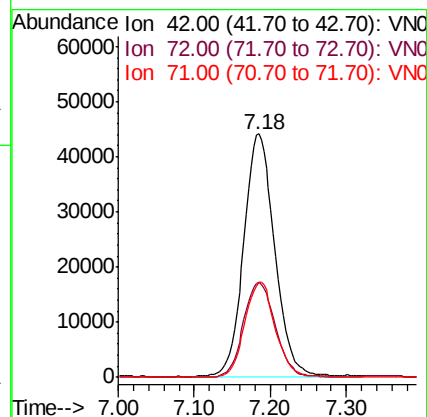
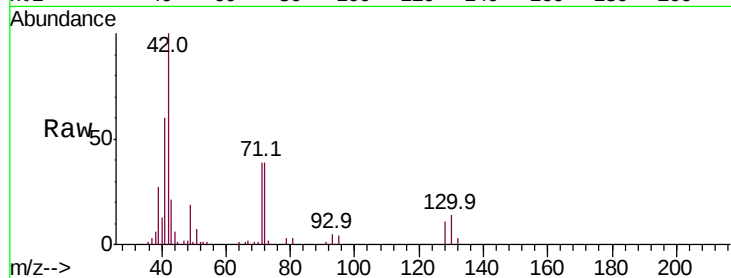




#29
Tetrahydrofuran
Concen: 89.919 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

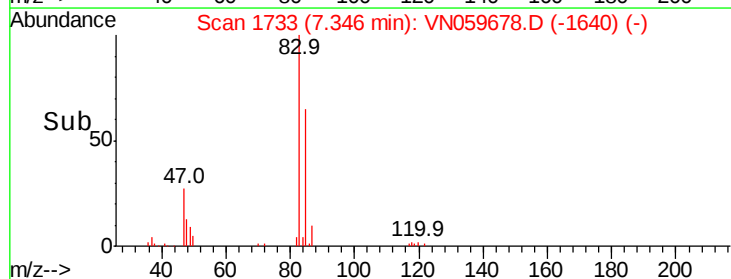
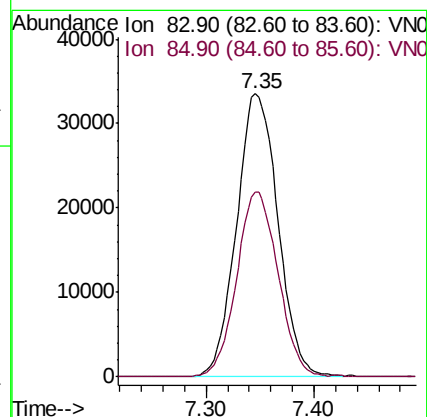
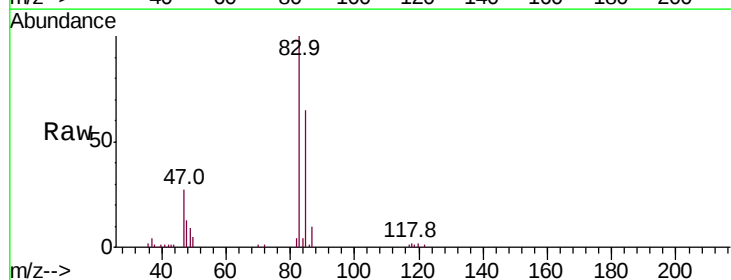
Instrument :
MSVOA_X
ClientSampleId :

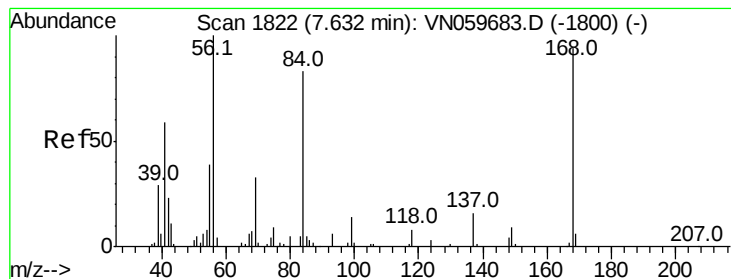
Tot Ion: 42 Resp: 126243
Ion Ratio Lower Upper
42 100
72 39.6 32.6 49.0
71 38.2 31.2 46.8



#30
Chloroform
Concen: 17.765 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 83 Resp: 89604
Ion Ratio Lower Upper
83 100
85 65.3 51.8 77.8





#31

Cyclohexane

Concen: 22.366 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampled :

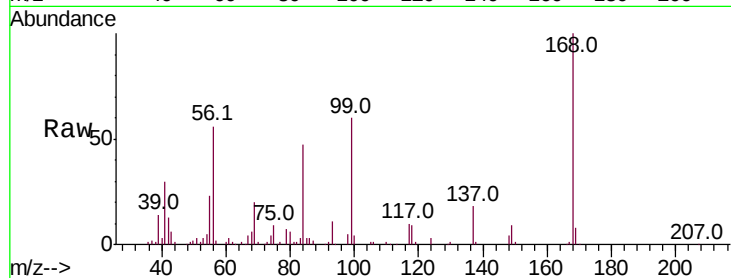
Tot Ion: 56 Resp: 106529

Ion Ratio Lower Upper

56 100

69 35.2 26.4 39.6

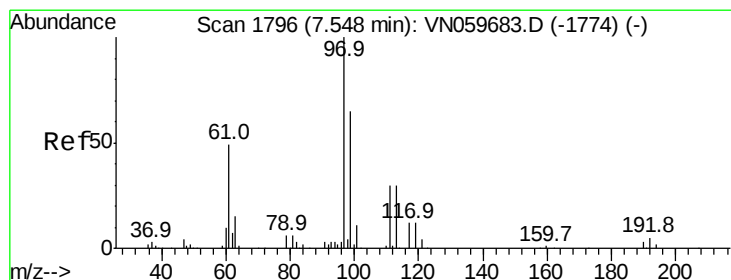
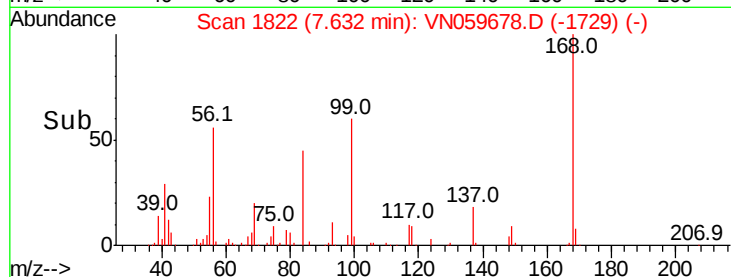
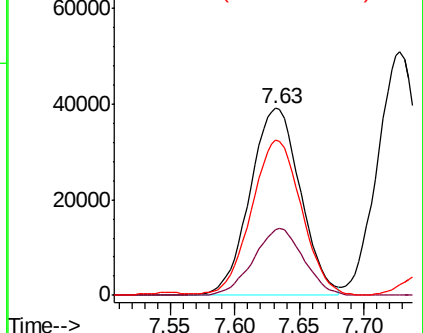
84 82.0 66.2 99.2



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 20.243 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

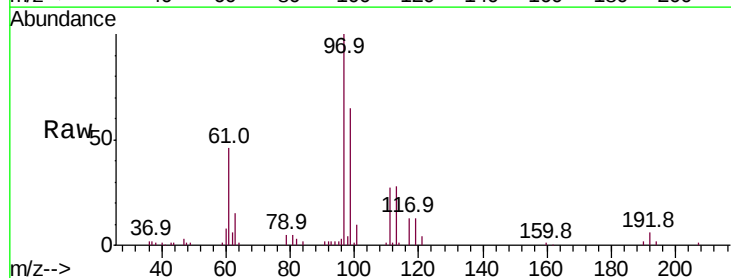
Tgt Ion: 97 Resp: 89959

Ion Ratio Lower Upper

97 100

99 63.8 51.4 77.0

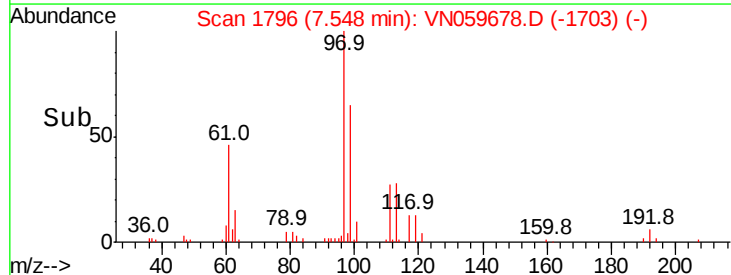
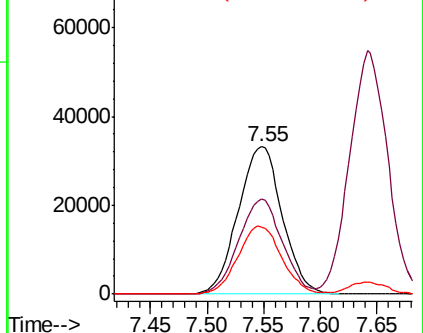
61 45.9 38.9 58.3

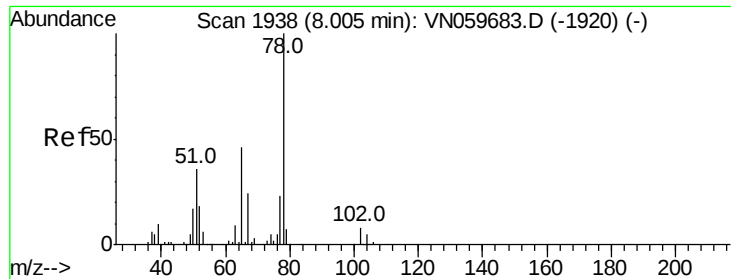


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





#33

1,2-Dichloroethane-d4

Concen: 18.958 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

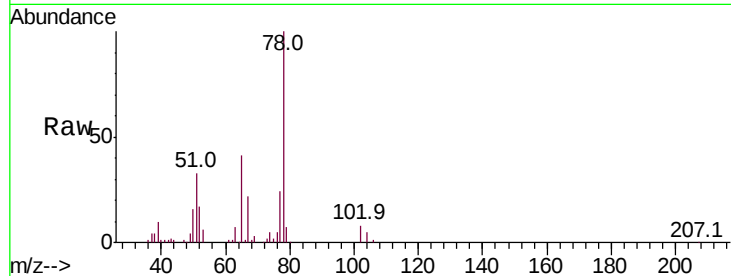
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 61296

Ion Ratio Lower Upper

65 100

67 54.7 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN059683.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN059683.D (-1920) (-)

8.00

25000

20000

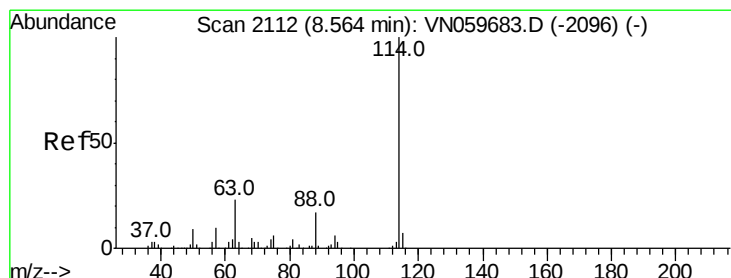
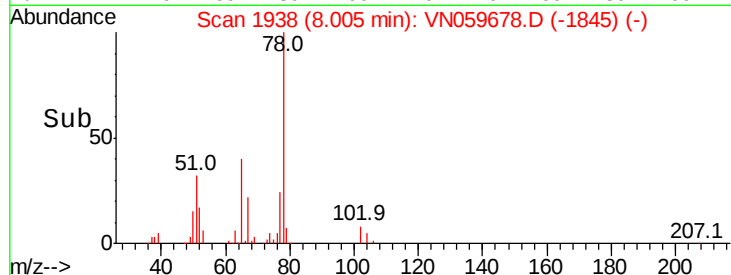
15000

10000

5000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

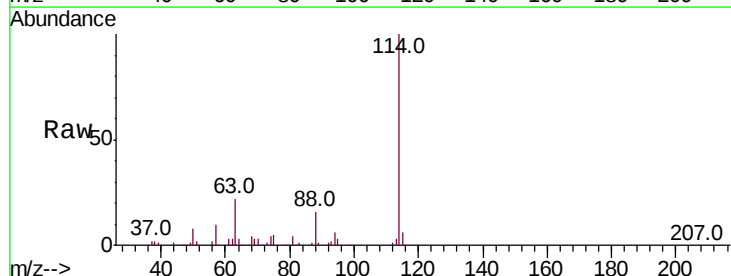
Tgt Ion: 114 Resp: 360721

Ion Ratio Lower Upper

114 100

63 21.5 0.0 46.2

88 16.0 0.0 33.6



Abundance Ion 113.90 (113.60 to 114.60): VN059683.D (-2096) (-)

Ion 63.00 (62.70 to 63.70): VN059683.D (-2096) (-)

Ion 87.90 (87.60 to 88.60): VN059683.D (-2096) (-)

8.57

200000

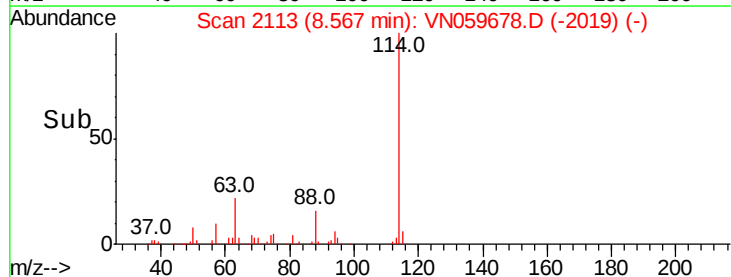
150000

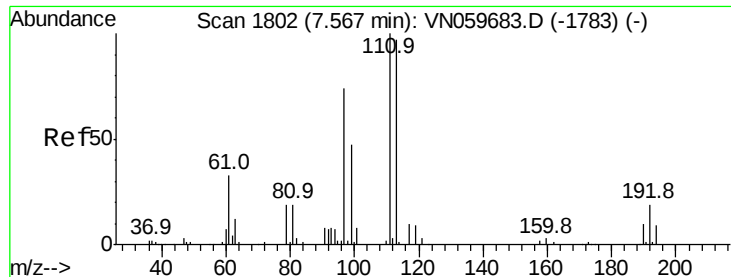
100000

50000

0

Time--> 8.50 8.55 8.60 8.65 8.70

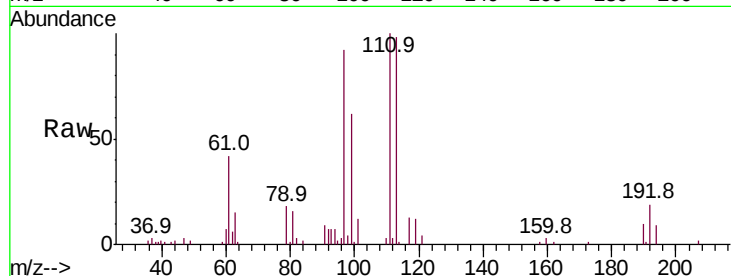




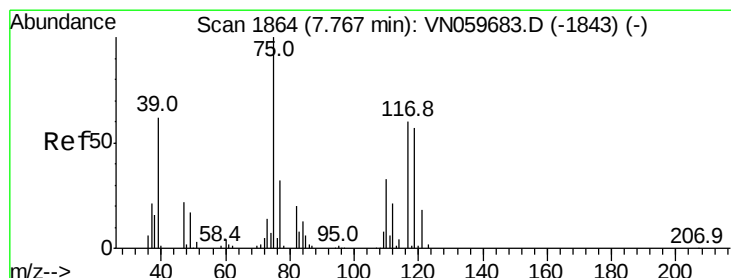
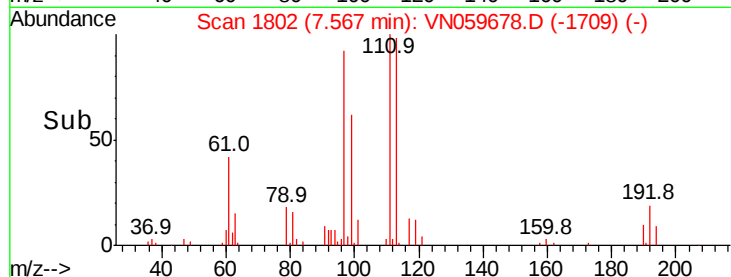
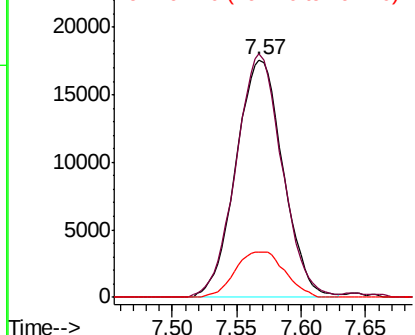
#35
 Dibromofluoromethane
 Concen: 20.194 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:113 Resp: 44762
 Ion Ratio Lower Upper
 113 100
 111 100.4 81.4 122.0
 192 20.2 14.9 22.3

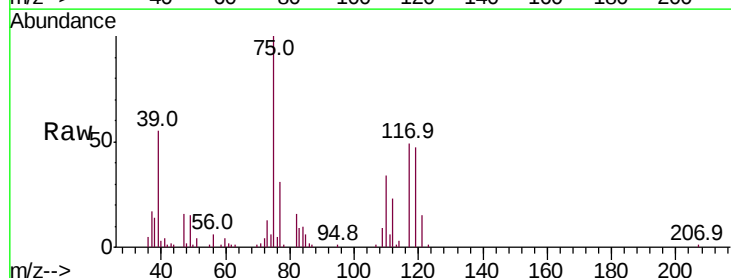


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

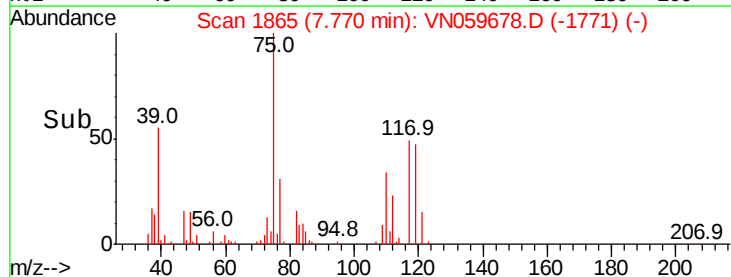
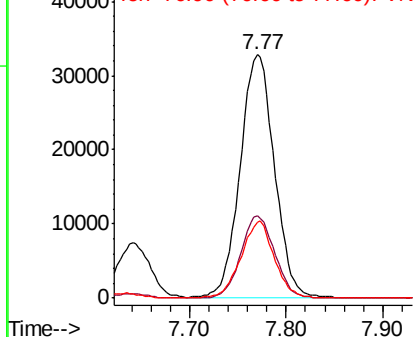


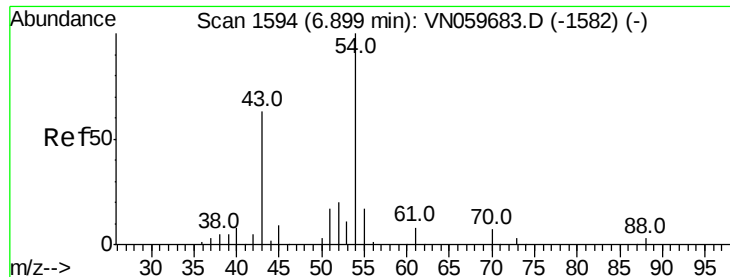
#36
 1,1-Dichloropropene
 Concen: 21.740 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Tgt Ion: 75 Resp: 81124
 Ion Ratio Lower Upper
 75 100
 110 33.1 16.2 48.5
 77 30.7 24.6 37.0



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

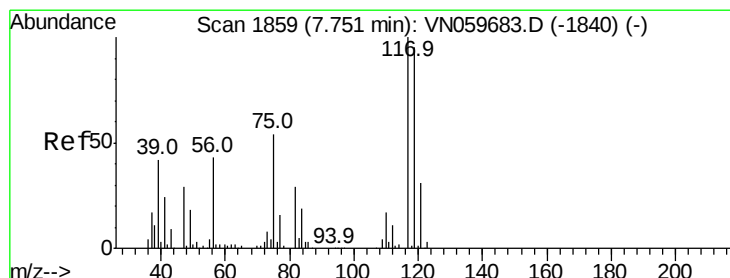
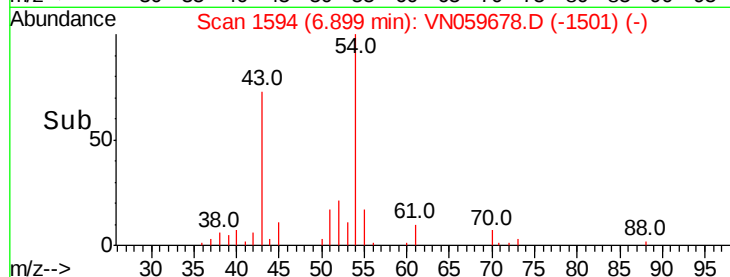
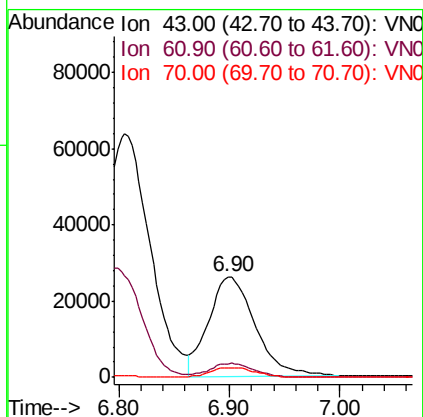
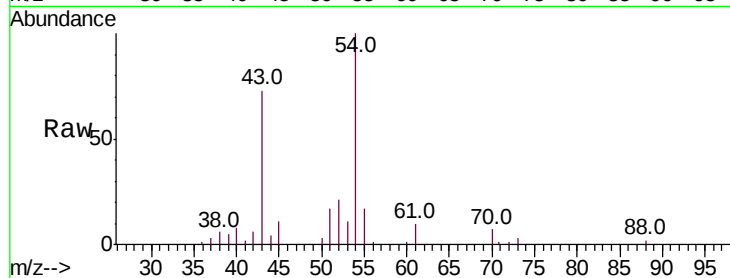




#37
Ethyl Acetate
Concen: 17.463 ug/l
RT: 6.90 min Scan# 1594
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

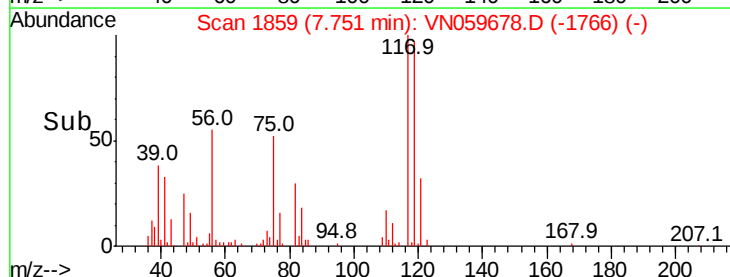
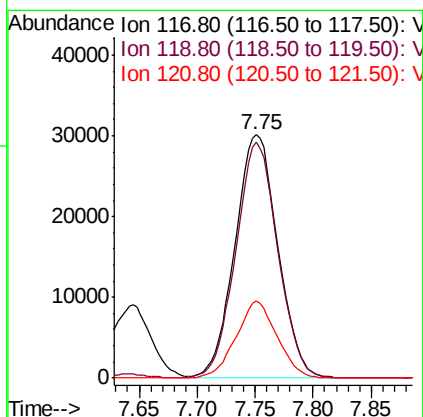
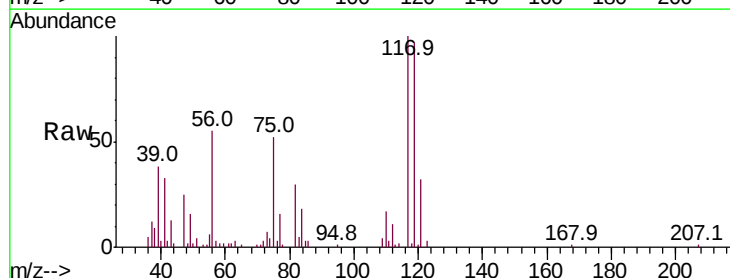
Instrument :
MSVOA_X
ClientSampleId :

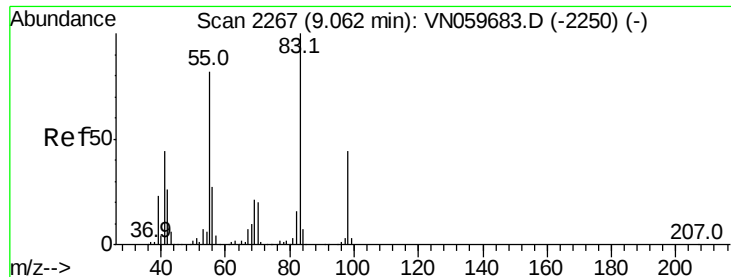
Tot Ion: 43 Resp: 75902
Ion Ratio Lower Upper
43 100
61 13.8 10.2 15.4
70 9.7 7.6 11.4



#38
Carbon Tetrachloride
Concen: 19.986 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 117 Resp: 77542
Ion Ratio Lower Upper
117 100
119 96.7 76.1 114.1
121 31.6 24.5 36.7

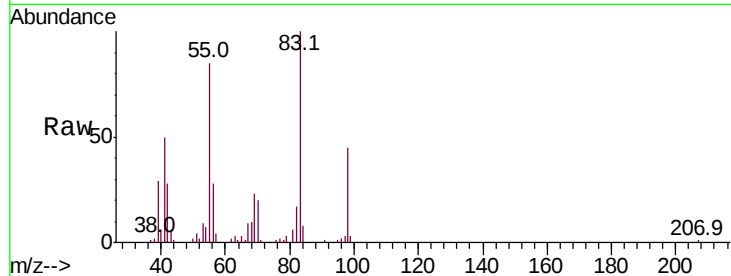




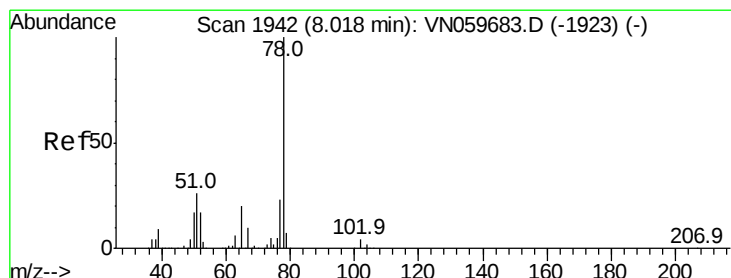
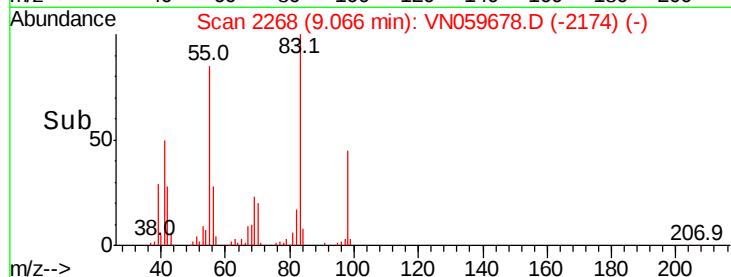
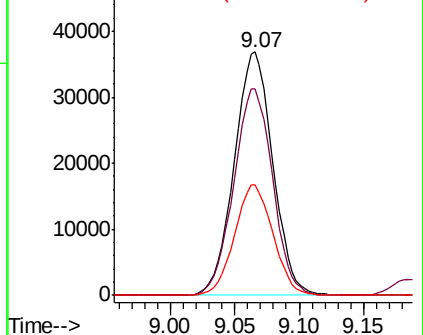
#39
Methvlcvclohexane
Concen: 17.517 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 76710
Ion Ratio Lower Upper
83 100
55 84.6 65.5 98.3
98 45.2 35.0 52.4

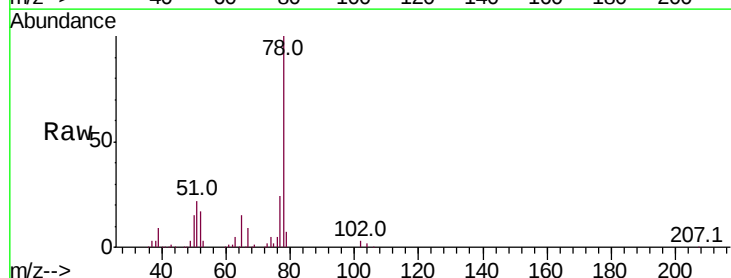


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

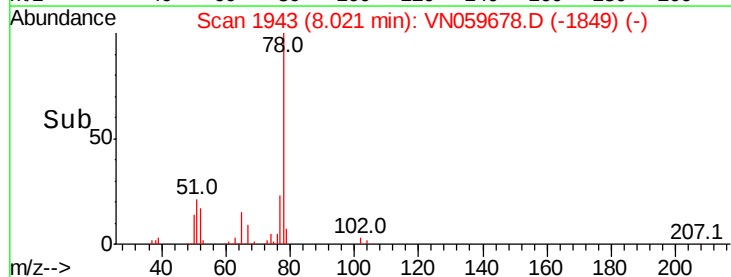
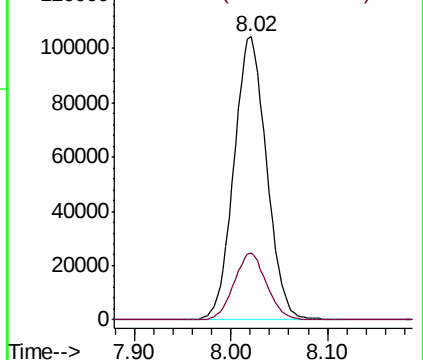


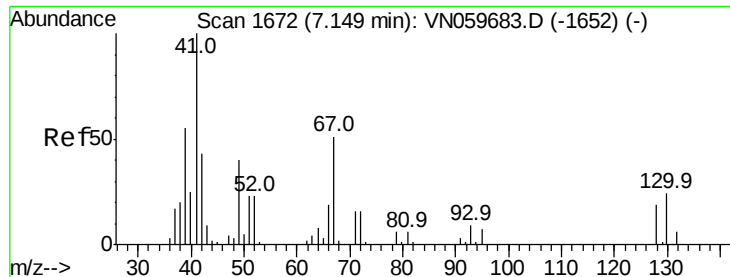
#40
Benzene
Concen: 22.425 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 78 Resp: 244710
Ion Ratio Lower Upper
78 100
77 23.5 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0

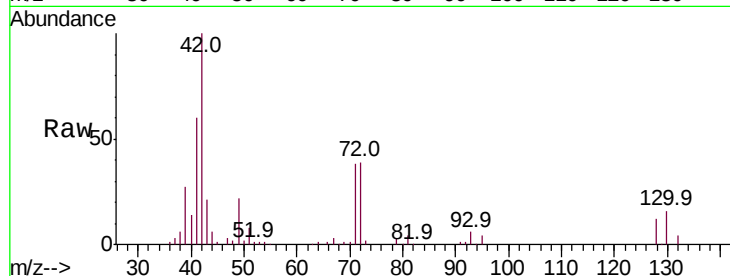




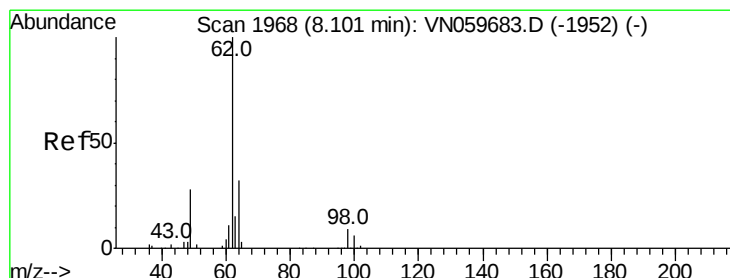
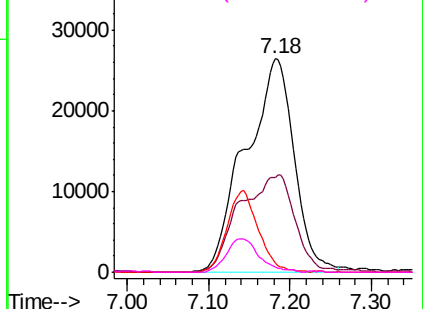
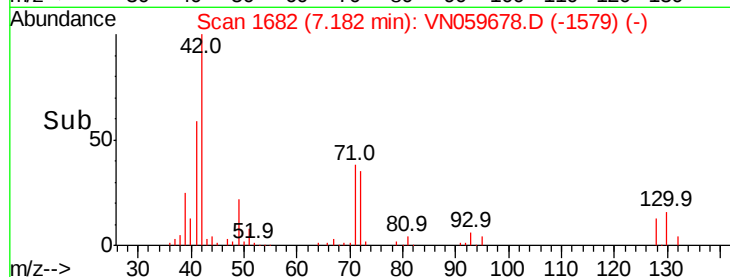
#41
Methacrylonitrile
Concen: 62.144 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.03 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 41 Resp: 110233
Ion Ratio Lower Upper
41 100
39 51.7 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0

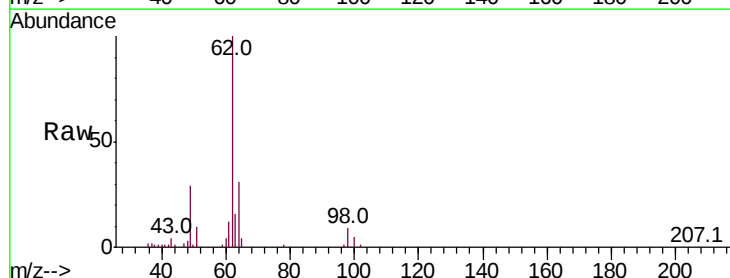


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

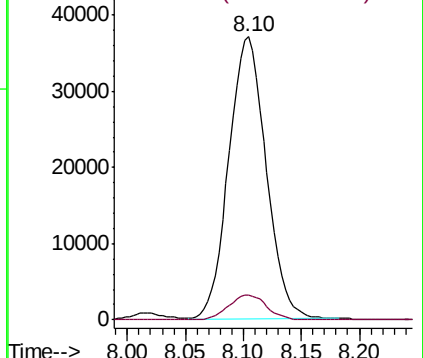
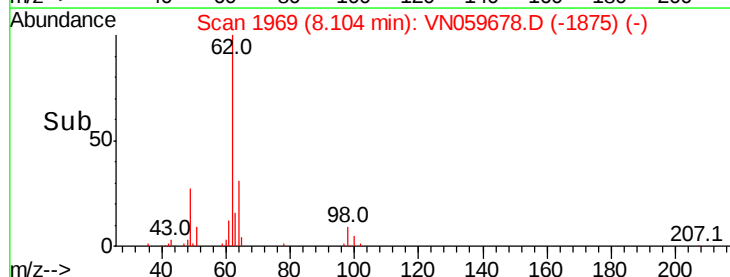


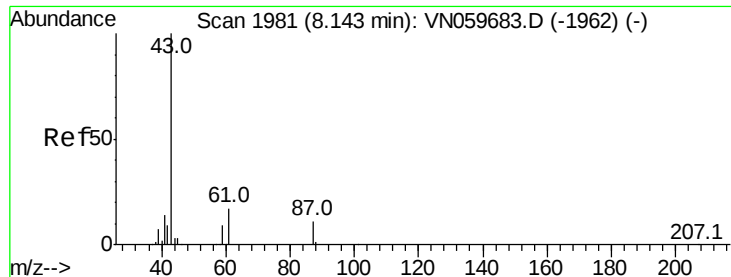
#42
1,2-Dichloroethane
Concen: 19.598 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 62 Resp: 83176
Ion Ratio Lower Upper
62 100
98 9.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 19.987 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

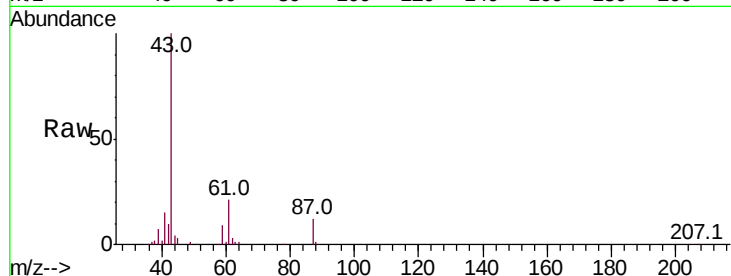
Tot Ion: 43 Resp: 137223

Ion Ratio Lower Upper

43 100

61 26.2 20.6 30.8

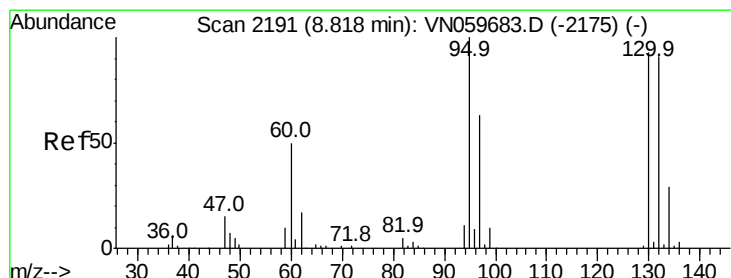
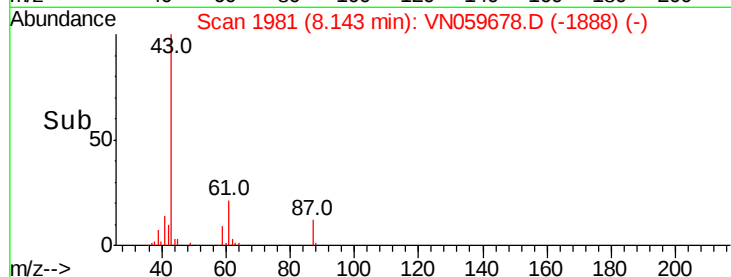
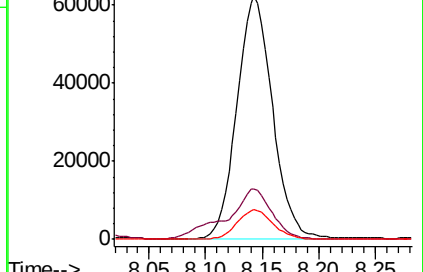
87 12.1 9.4 14.2



Abundance Ion 43.00 (42.70 to 43.70): VN059683.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN059683.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN059683.D (-1962) (-)



#44

Trichloroethene

Concen: 17.490 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. 0.00 min

Lab File: VN059678.D

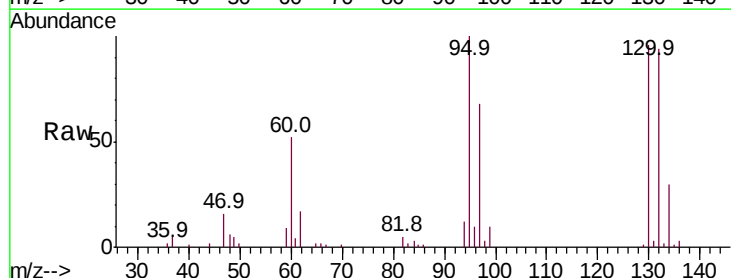
Acq: 20 Dec 2019 14:08

Tgt Ion:130 Resp: 49648

Ion Ratio Lower Upper

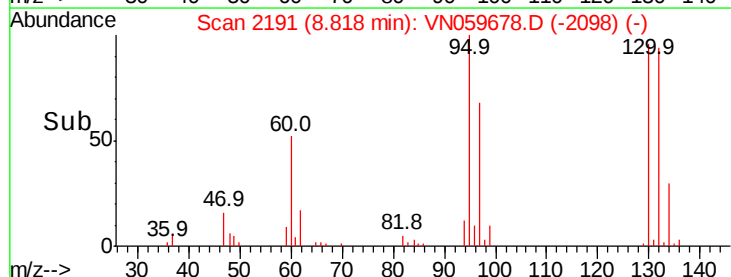
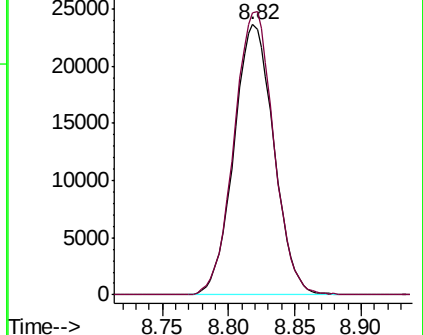
130 100

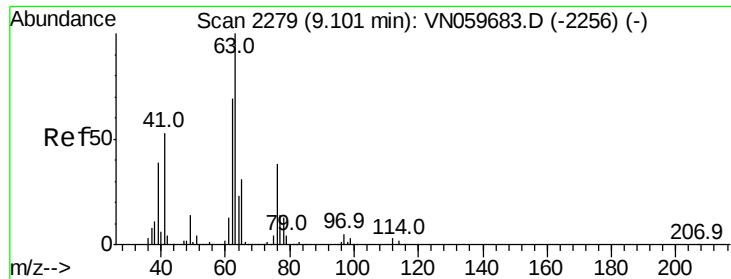
95 104.3 0.0 214.8



Abundance Ion 129.80 (129.50 to 130.50): VN059683.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN059683.D (-2175) (-)





#45

1,2-Dichloropropane

Concen: 18.869 ug/l

RT: 9.10 min Scan# 2279

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

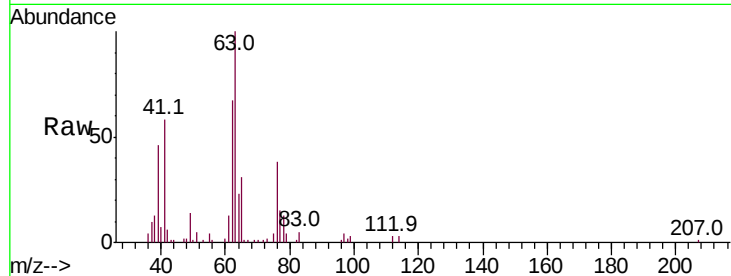
ClientSampleId :

Tot Ion: 63 Resp: 57667

Ion Ratio Lower Upper

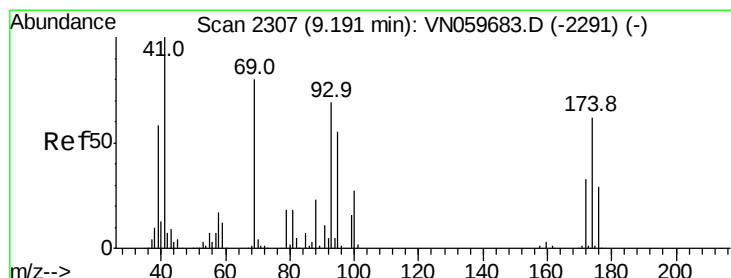
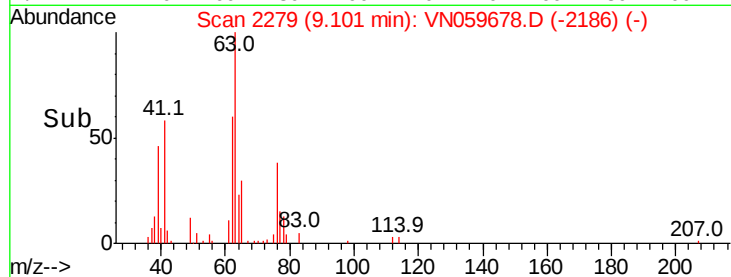
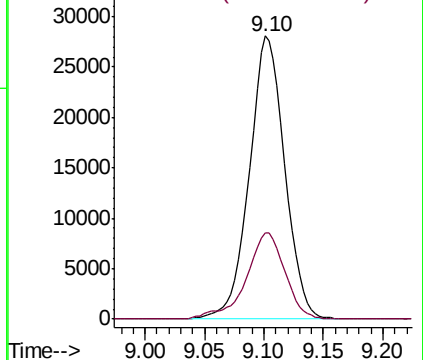
63 100

65 30.6 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 20.672 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

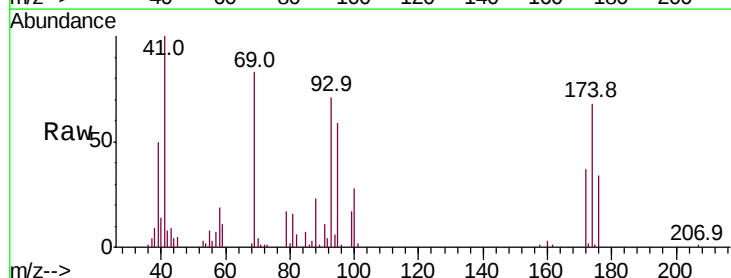
Tgt Ion: 93 Resp: 40365

Ion Ratio Lower Upper

93 100

95 80.4 65.2 97.8

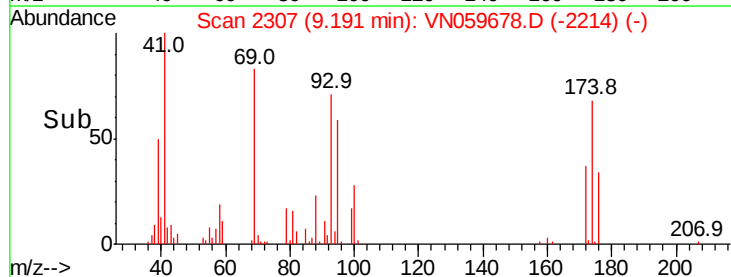
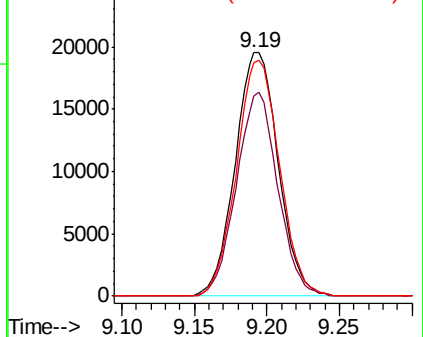
174 96.8 73.1 109.7

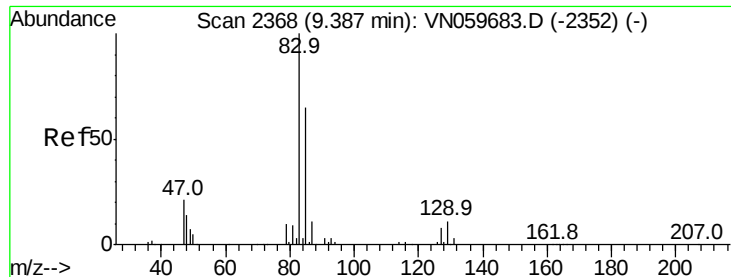


Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO





#47

Bromodichloromethane

Concen: 20.625 ug/l

RT: 9.39 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampled :

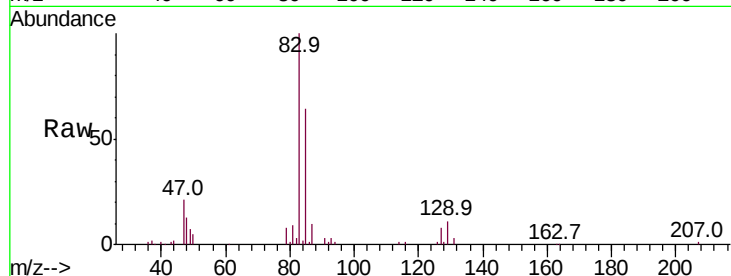
Tot Ion: 83 Resp: 80443

Ion Ratio Lower Upper

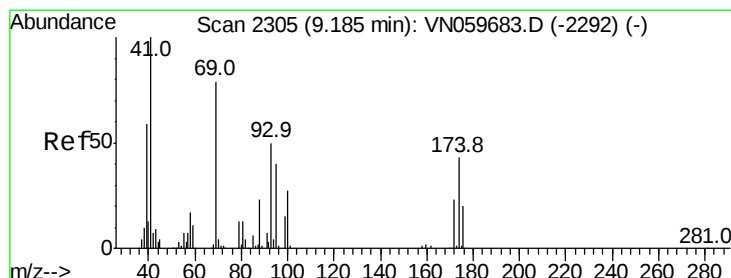
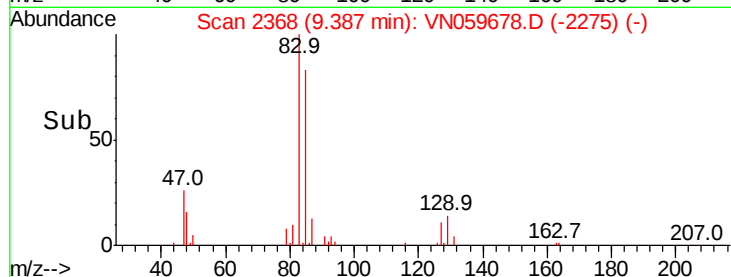
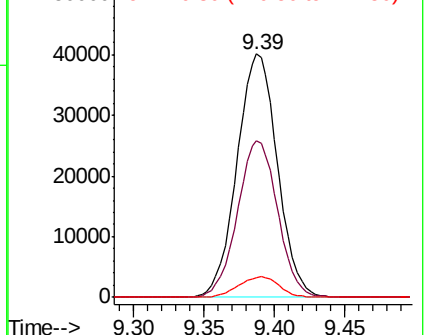
83 100

85 64.5 52.1 78.1

127 8.2 6.7 10.1



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 18.961 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

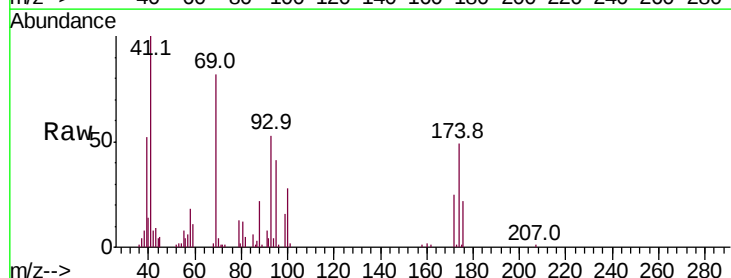
Tgt Ion: 41 Resp: 58741

Ion Ratio Lower Upper

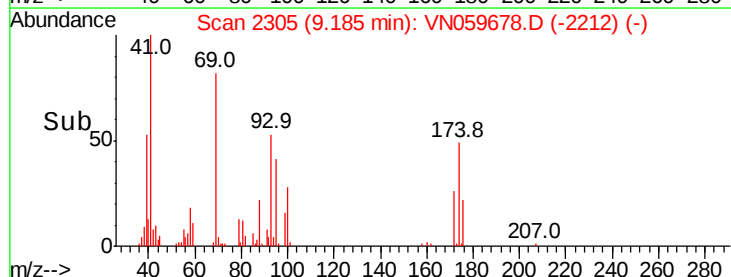
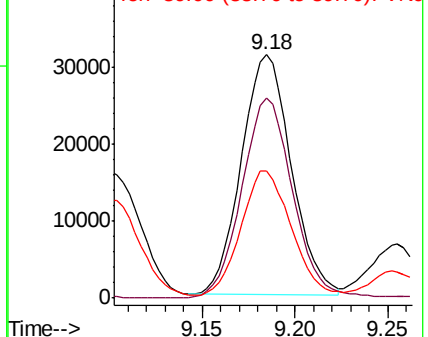
41 100

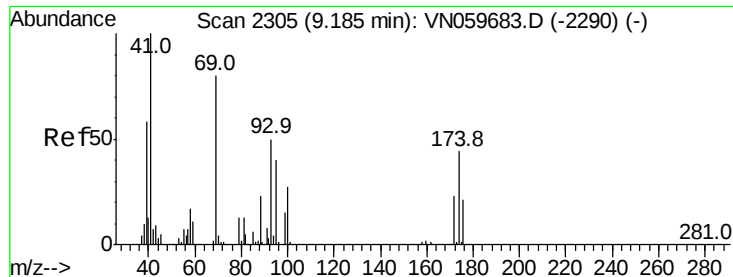
69 85.1 63.0 94.6

39 54.8 48.0 72.0



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

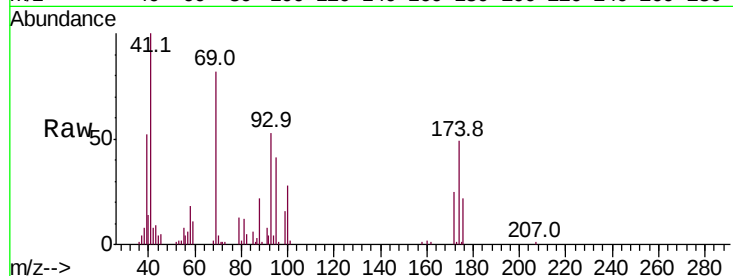




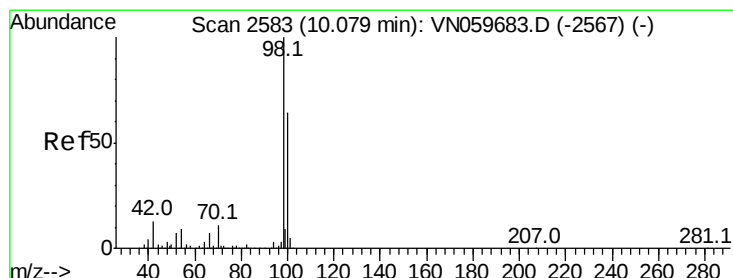
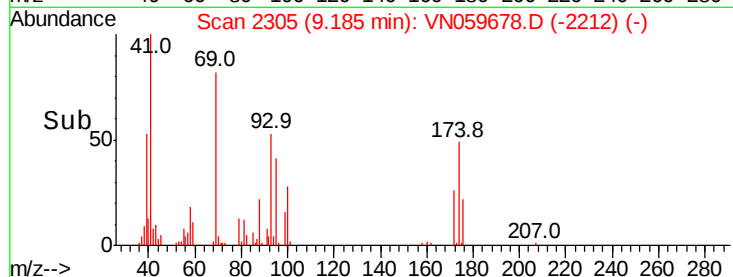
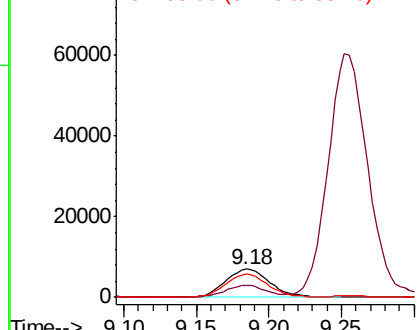
#49
1,4-Dioxane
Concen: 344.675 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 14888
Ion Ratio Lower Upper
88 100
43 38.9 30.2 45.4
58 79.5 60.1 90.1

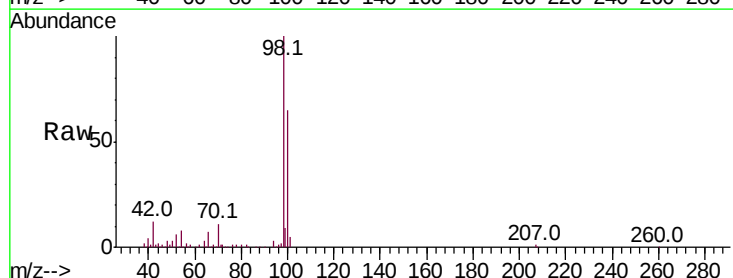


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

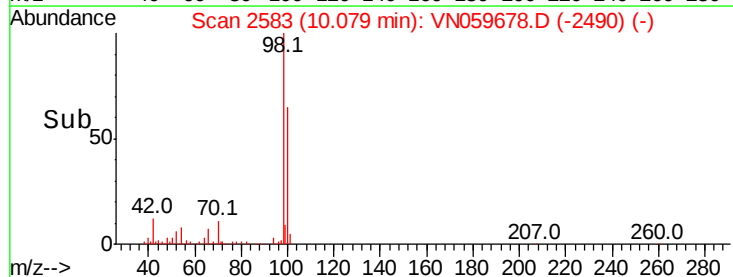
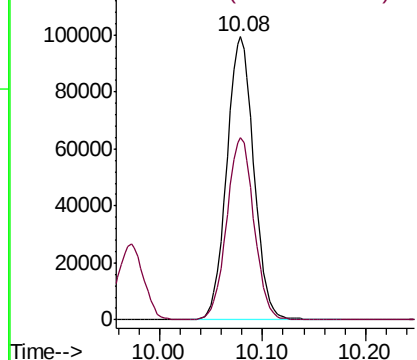


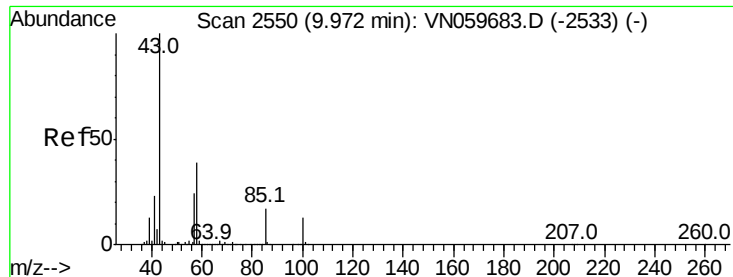
#50
Toluene-d8
Concen: 20.610 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 98 Resp: 181203
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.6



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 91.433 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

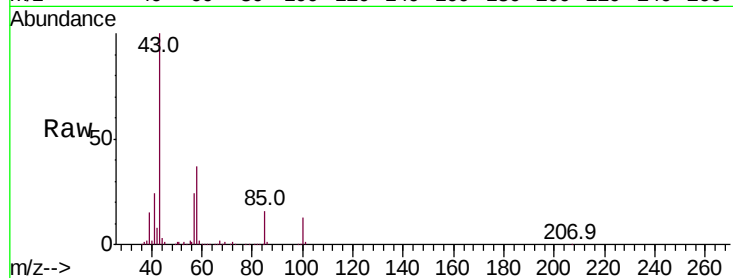
ClientSampleId :

Tot Ion: 43 Resp: 372522

Ion Ratio Lower Upper

43 100

58 37.4 30.1 45.1



Abundance Ion 43.00 (42.70 to 43.70): VN059683.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN059683.D (-2533) (-)

9.97

200000

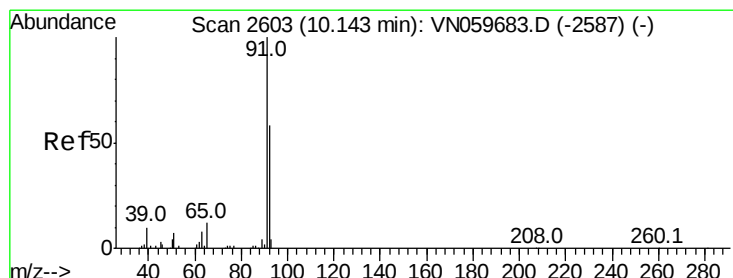
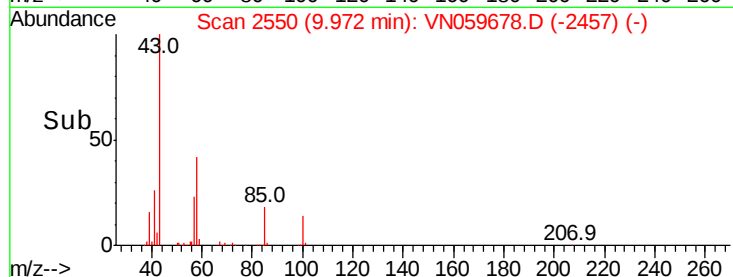
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.866 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN059678.D

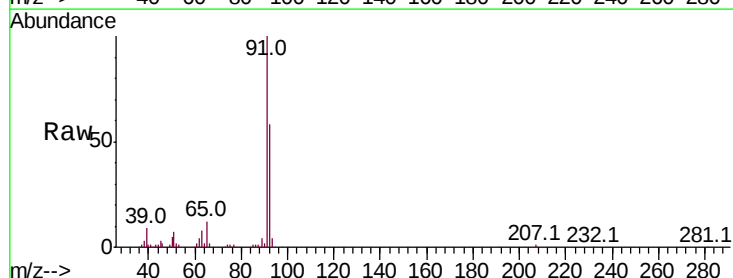
Acq: 20 Dec 2019 14:08

Tgt Ion: 92 Resp: 143840

Ion Ratio Lower Upper

92 100

91 172.0 138.6 207.8



Abundance Ion 92.00 (91.70 to 92.70): VN059683.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN059683.D (-2587) (-)

10.14

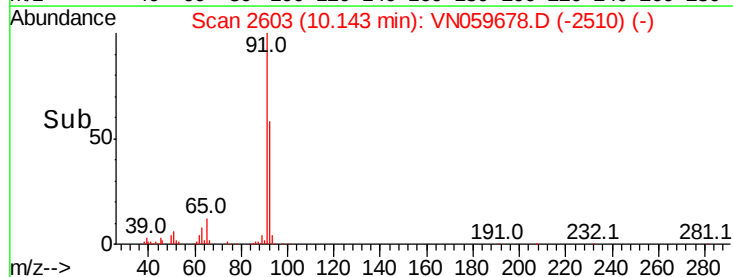
150000

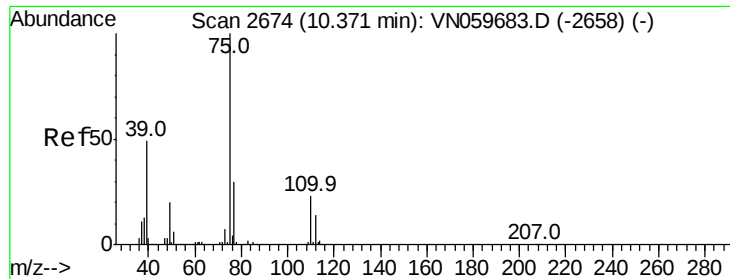
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.331 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

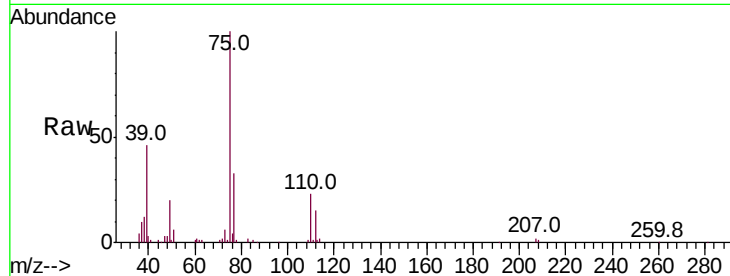
ClientSampleId :

Tot Ion: 75 Resp: 91884

Ion Ratio Lower Upper

75 100

77 31.6 24.9 37.3



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.37

60000

50000

40000

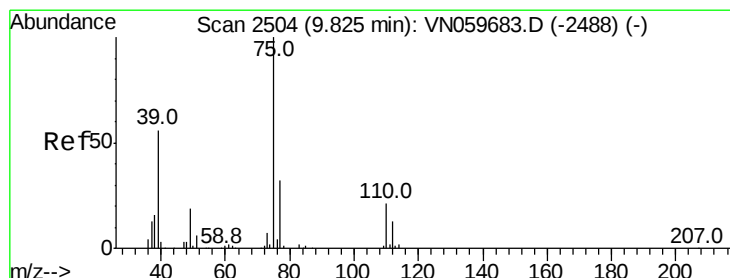
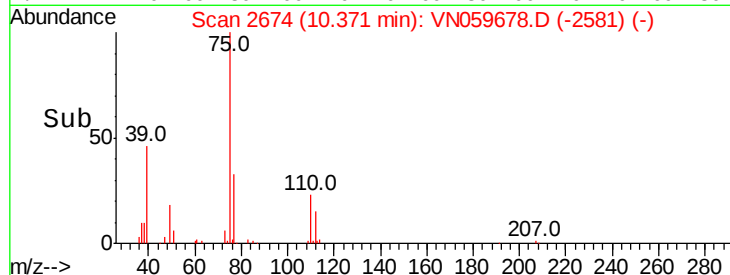
30000

20000

10000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 17.278 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

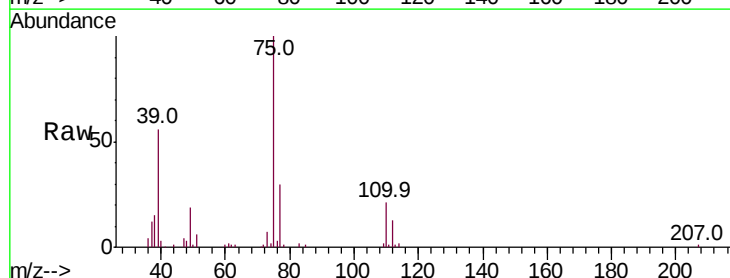
Tgt Ion: 75 Resp: 81285

Ion Ratio Lower Upper

75 100

77 30.0 25.6 38.4

39 56.2 44.6 66.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.83

60000

50000

40000

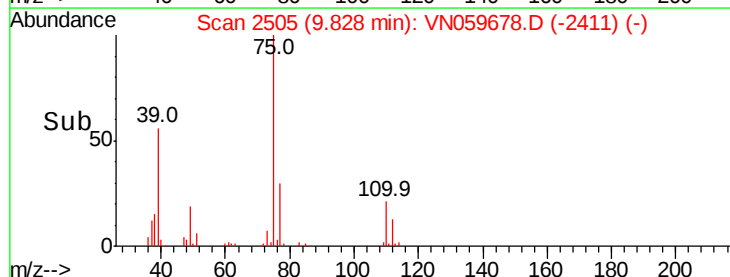
30000

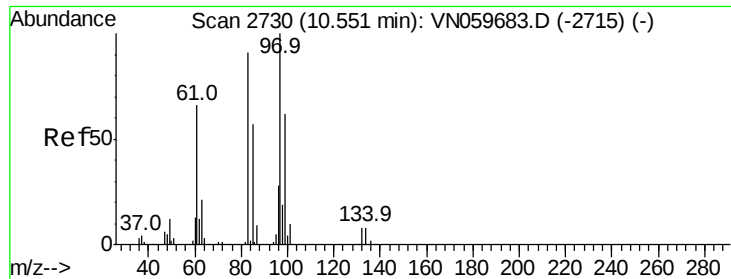
20000

10000

0

Time-->

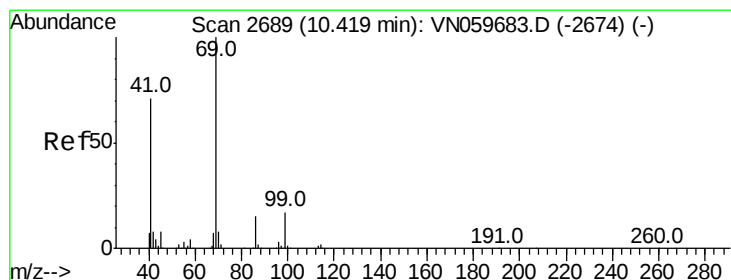
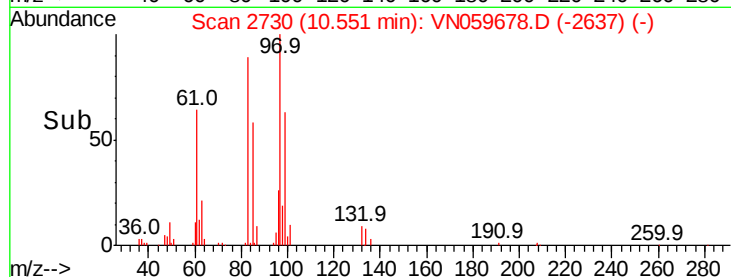
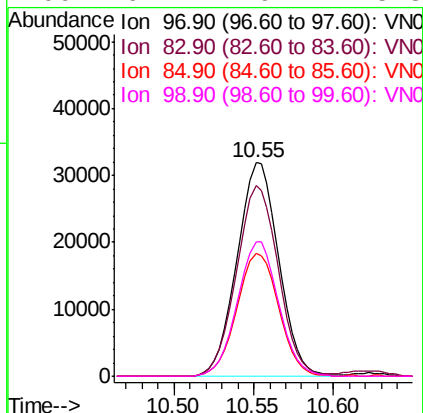
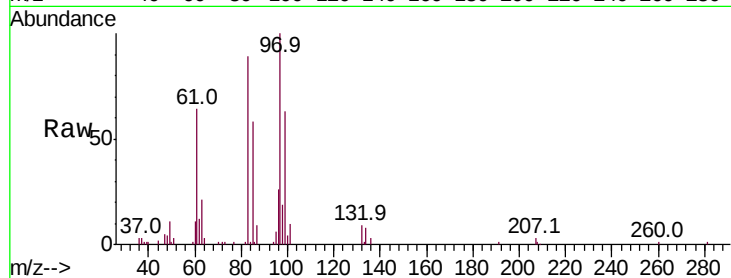




#55
 1,1,2-Trichloroethane
 Concen: 21.230 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

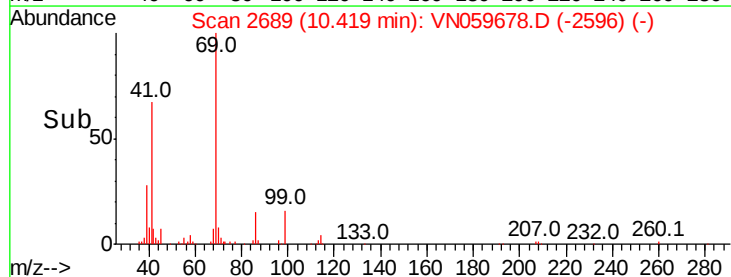
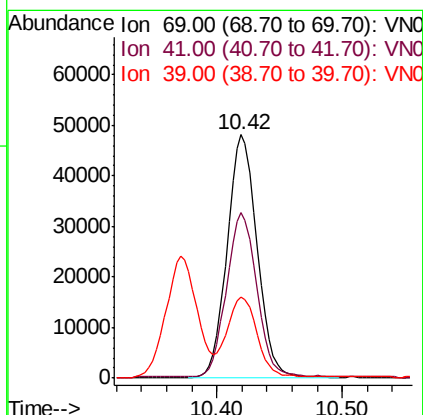
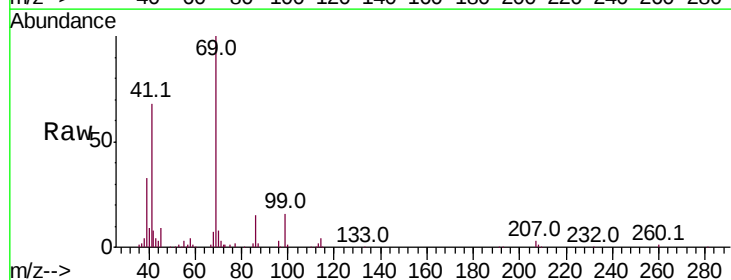
Instrument :
 MSVOA_X
 ClientSampled :

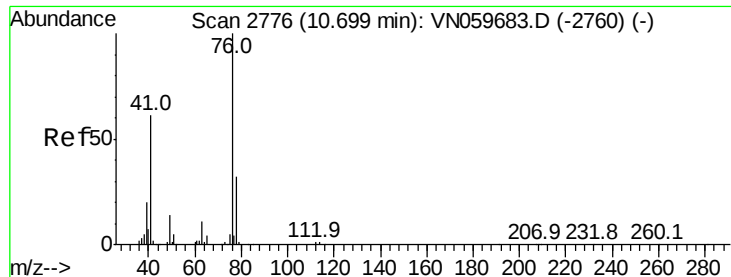
Tot Ion: 97 Resp: 56727
 Ion Ratio Lower Upper
 97 100
 83 89.2 72.6 108.8
 85 57.6 45.7 68.5
 99 62.7 49.2 73.8



#56
 Ethyl methacrylate
 Concen: 20.332 ug/l
 RT: 10.42 min Scan# 2689
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Tgt Ion: 69 Resp: 79941
 Ion Ratio Lower Upper
 69 100
 41 67.7 56.7 85.1
 39 33.5 32.6 48.8





#57

1,3-Dichloropropane

Concen: 20.781 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

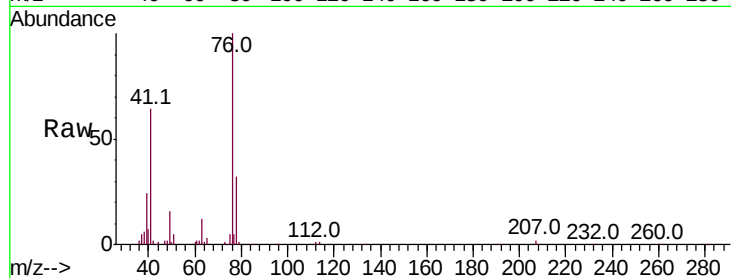
ClientSampleId :

Tot Ion: 76 Resp: 98434

Ion Ratio Lower Upper

76 100

78 32.3 25.9 38.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.70

60000

50000

40000

30000

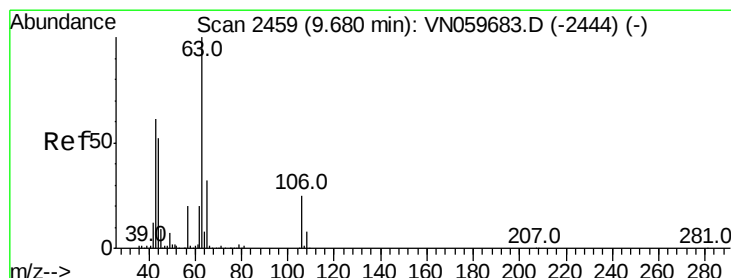
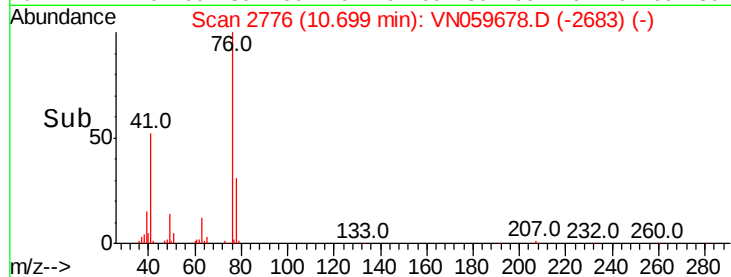
20000

10000

0

Time-->

10.65 10.70 10.75



#58

2-Chloroethyl Vinyl ether

Concen: 64.685 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. 0.00 min

Lab File: VN059678.D

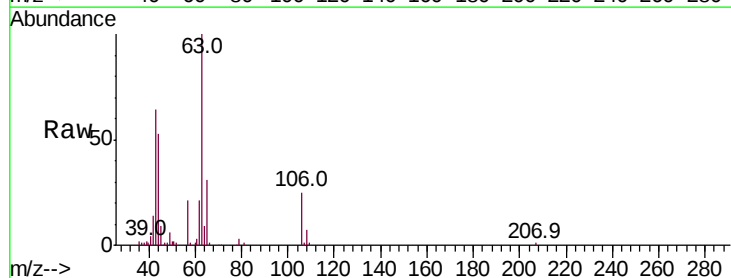
Acq: 20 Dec 2019 14:08

Tgt Ion: 63 Resp: 83431

Ion Ratio Lower Upper

63 100

106 24.2 19.9 29.9



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.68

50000

40000

30000

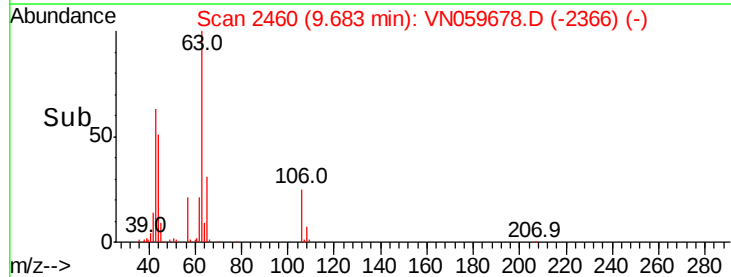
20000

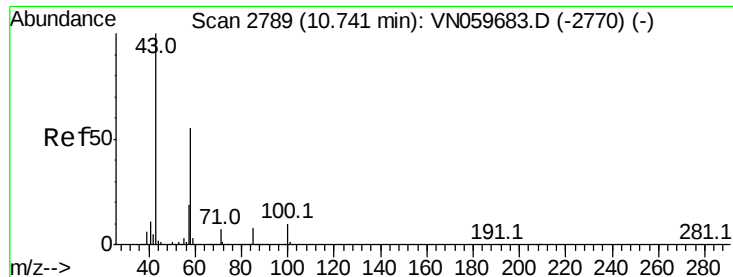
10000

0

Time-->

9.60 9.65 9.70 9.75 9.80

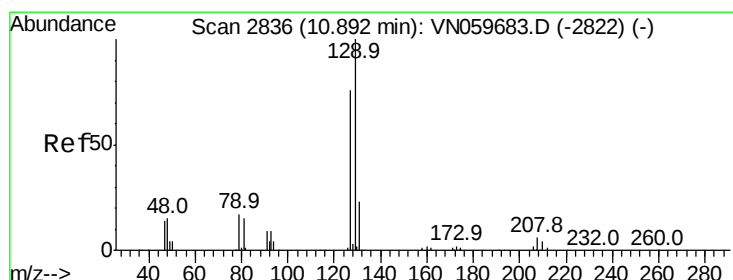
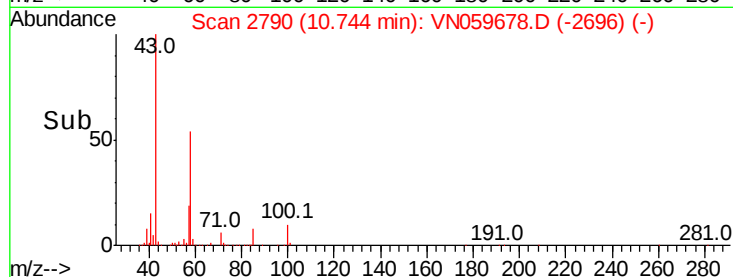
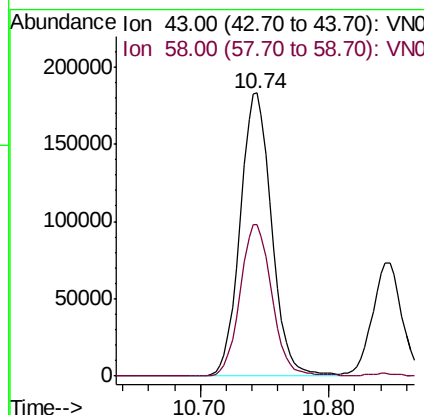
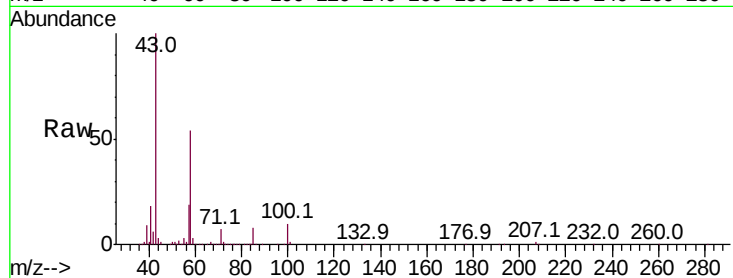




#59
2-Hexanone
Concen: 96.611 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

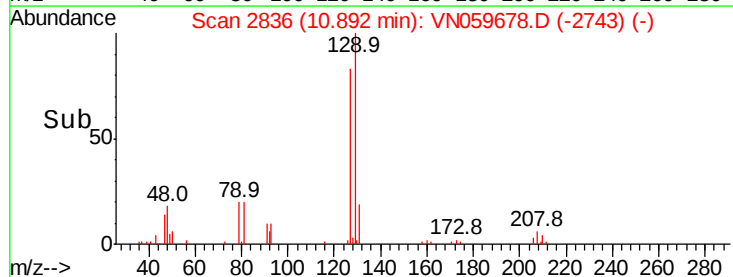
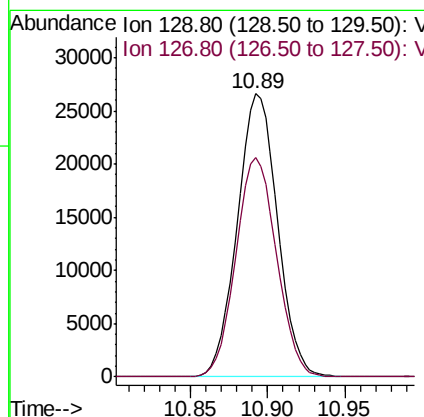
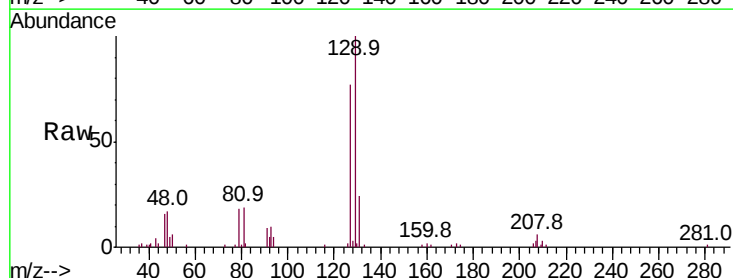
Instrument :
MSVOA_X
ClientSampled :

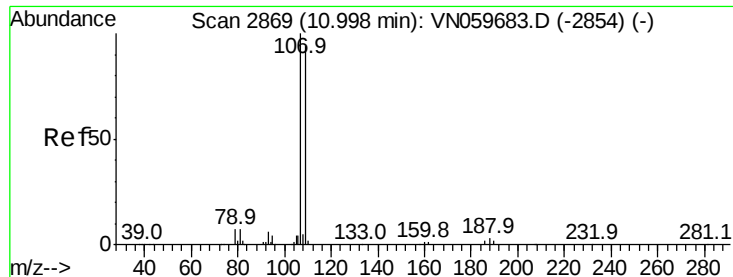
Tot Ion: 43 Resp: 310574
Ion Ratio Lower Upper
43 100
58 54.0 27.6 82.7



#60
Dibromochloromethane
Concen: 16.437 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 129 Resp: 48084
Ion Ratio Lower Upper
129 100
127 78.3 38.4 115.2

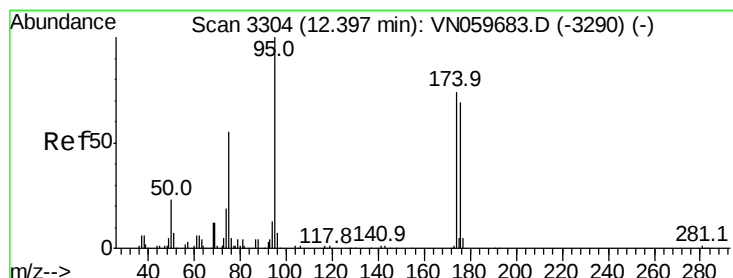
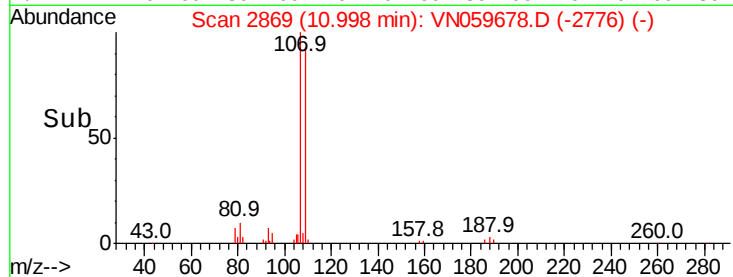
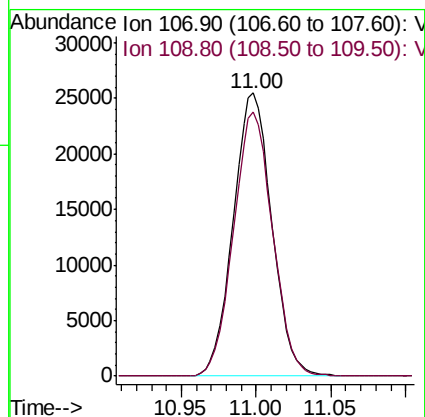
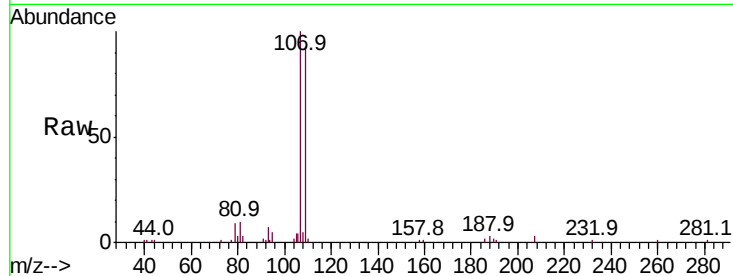




#61
 1,2-Dibromoethane
 Concen: 15.938 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

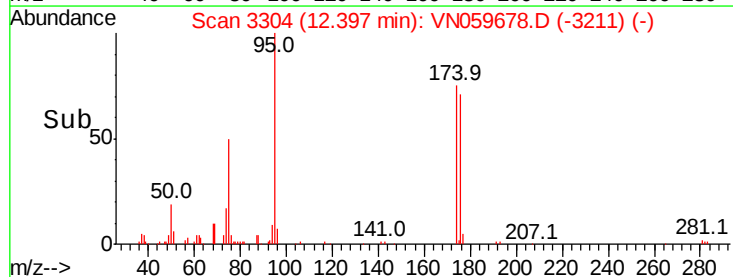
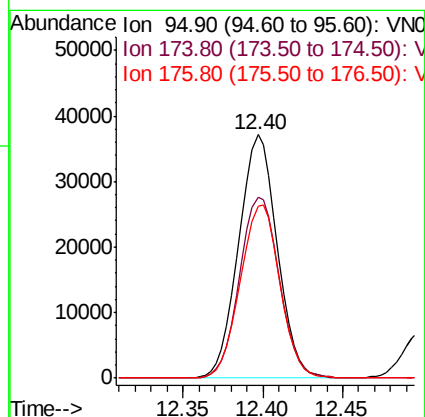
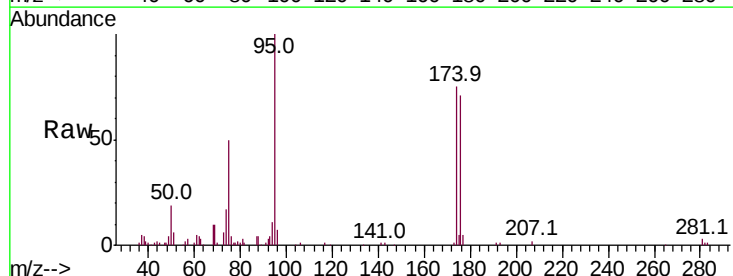
Instrument :
 MSVOA_X
 ClientSampled :

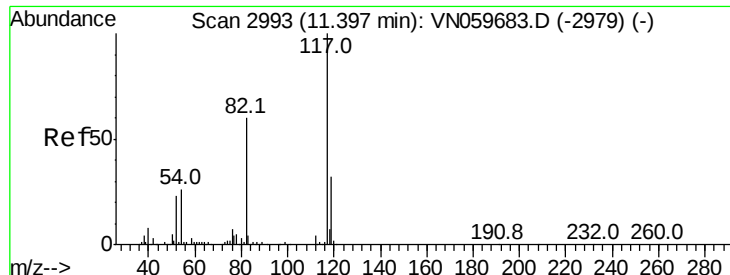
Tot Ion:107 Resp: 45765
 Ion Ratio Lower Upper
 107 100
 109 94.1 75.1 112.7



#62
 4-Bromofluorobenzene
 Concen: 19.724 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Tgt Ion: 95 Resp: 60832
 Ion Ratio Lower Upper
 95 100
 174 76.7 0.0 150.2
 176 73.4 0.0 144.0

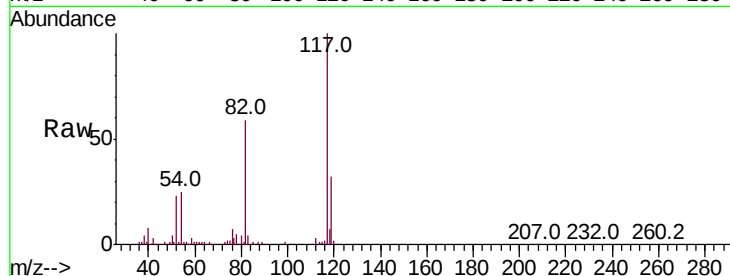




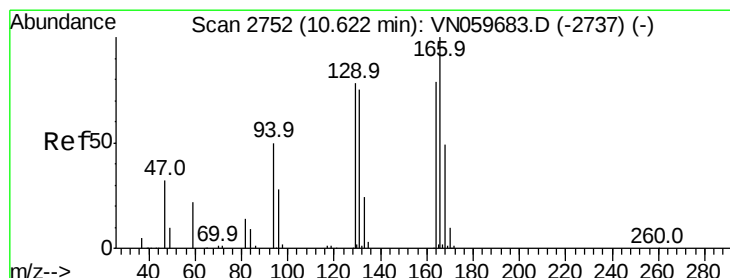
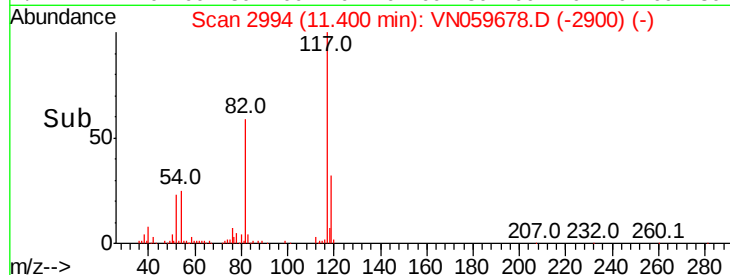
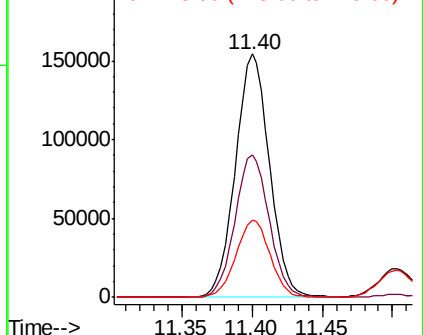
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 261235
Ion Ratio Lower Upper
117 100
82 58.6 48.2 72.2
119 31.7 25.4 38.2

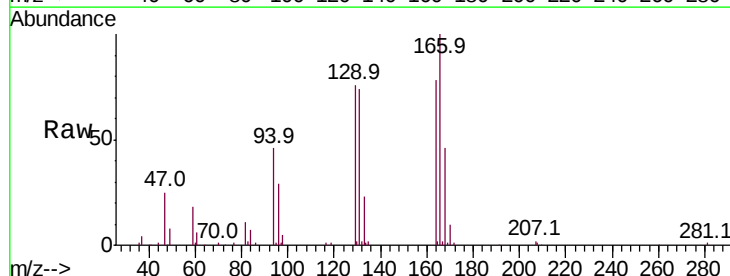


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

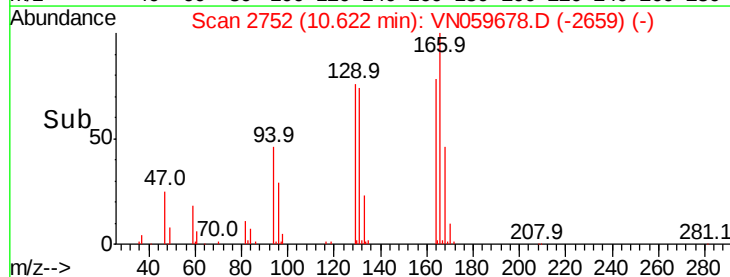
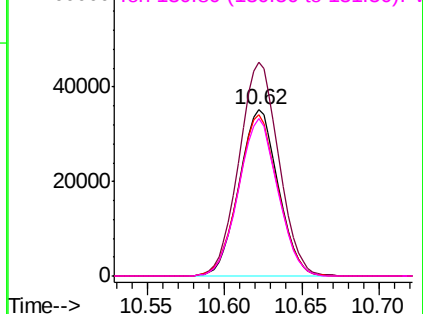


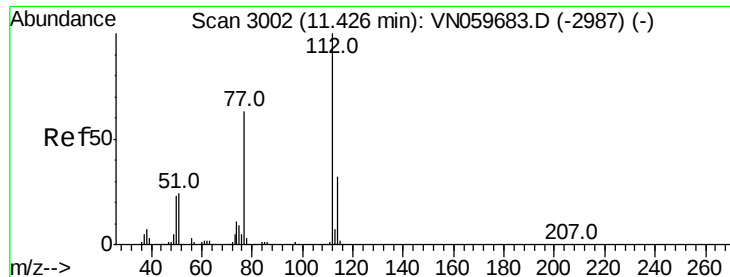
#64
Tetrachloroethene
Concen: 25.985 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion:164 Resp: 62054
Ion Ratio Lower Upper
164 100
166 128.7 101.4 152.0
129 97.4 79.2 118.8
131 94.7 76.2 114.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

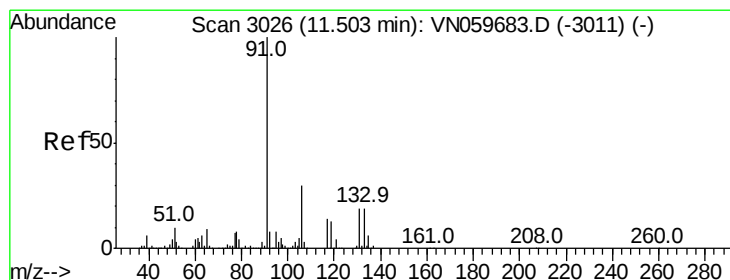
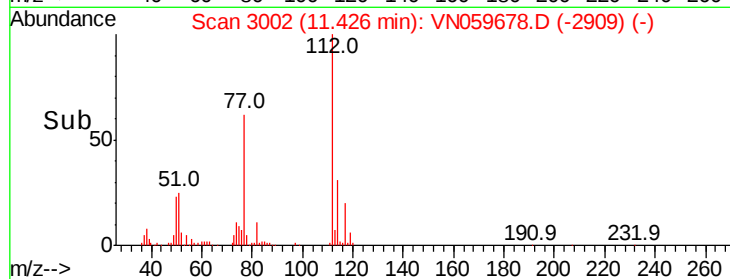
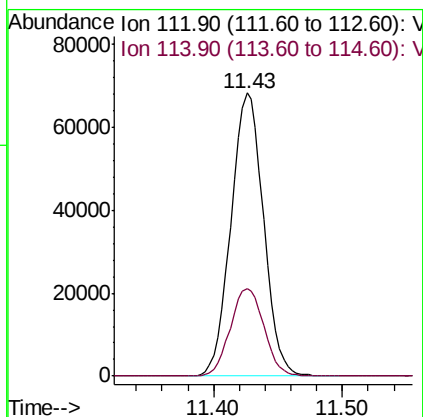
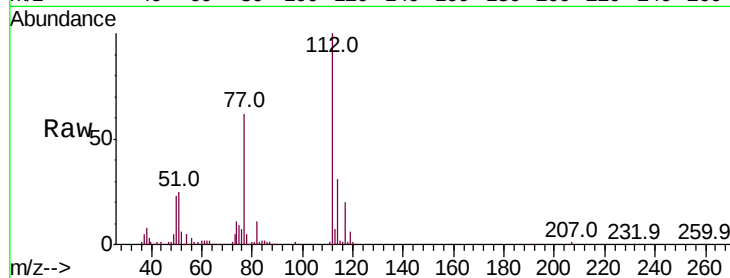




#65
Chlorobenzene
Concen: 21.489 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

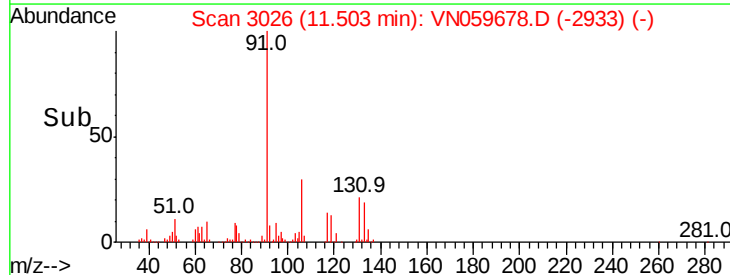
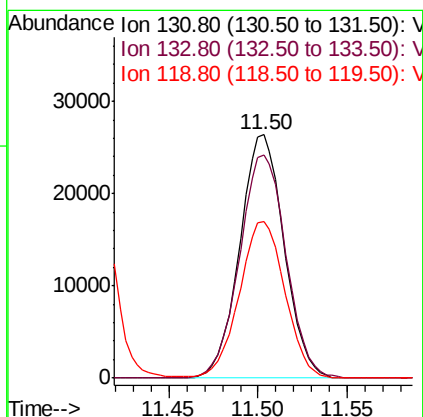
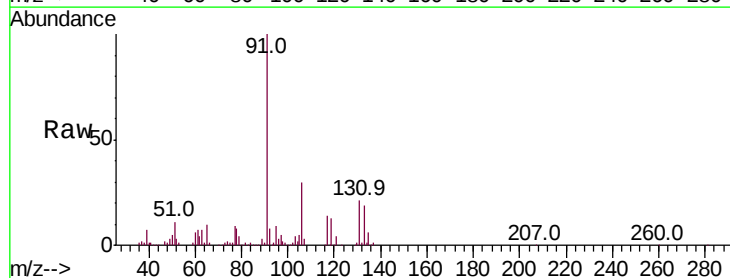
Instrument :
MSVOA_X
ClientSampleId :

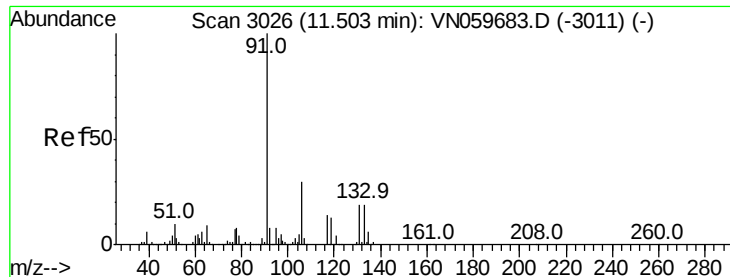
Tot Ion:112 Resp: 119626
Ion Ratio Lower Upper
112 100
114 31.1 25.4 38.2



#66
1,1,1,2-Tetrachloroethane
Concen: 21.070 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion:131 Resp: 45691
Ion Ratio Lower Upper
131 100
133 96.4 48.0 144.0
119 66.3 33.5 100.4





#67

Ethyl Benzene

Concen: 21.243 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

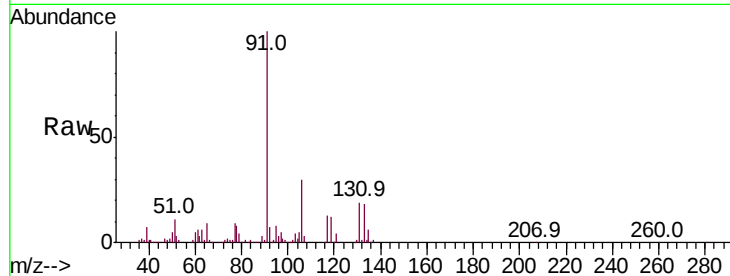
ClientSampled :

Tot Ion: 91 Resp: 220263

Ion Ratio Lower Upper

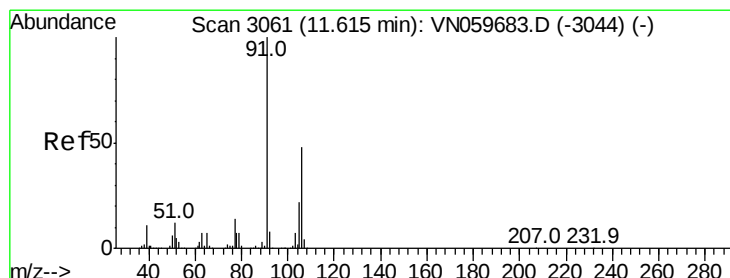
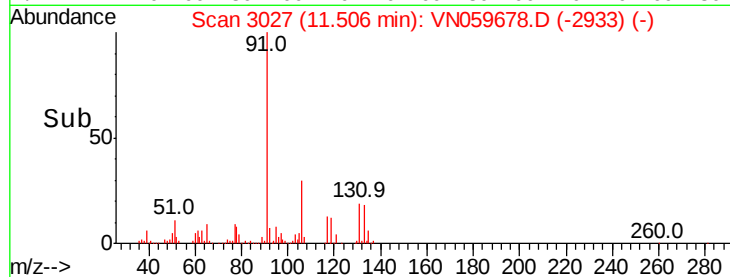
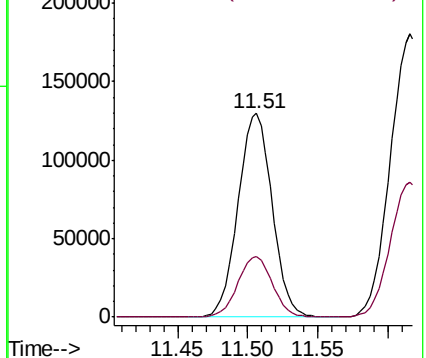
91 100

106 29.7 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 45.894 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. 0.00 min

Lab File: VN059678.D

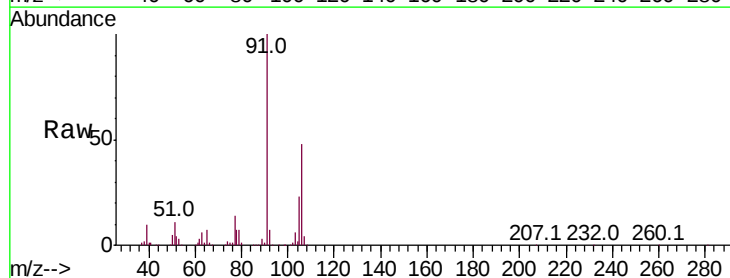
Acq: 20 Dec 2019 14:08

Tgt Ion: 106 Resp: 167123

Ion Ratio Lower Upper

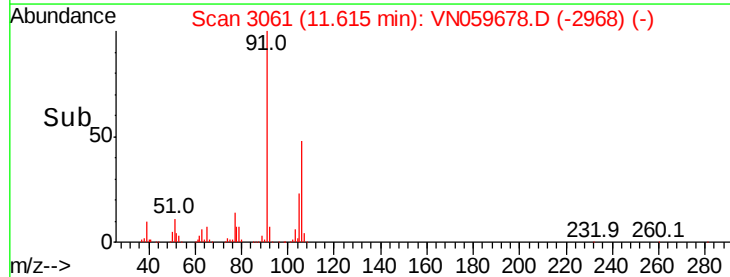
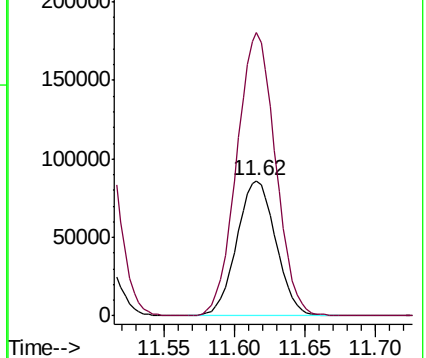
106 100

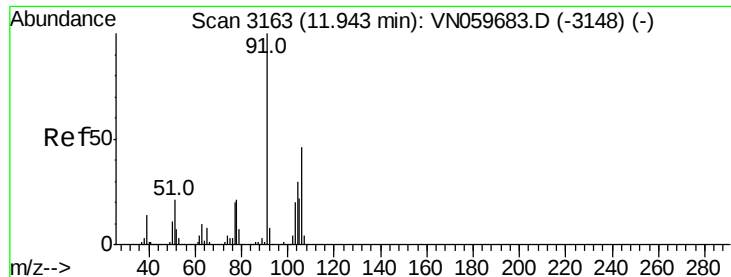
91 207.1 167.9 251.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

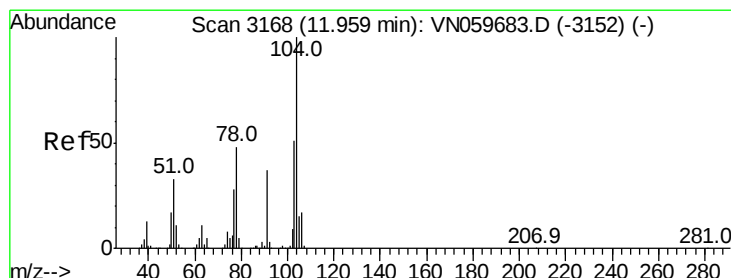
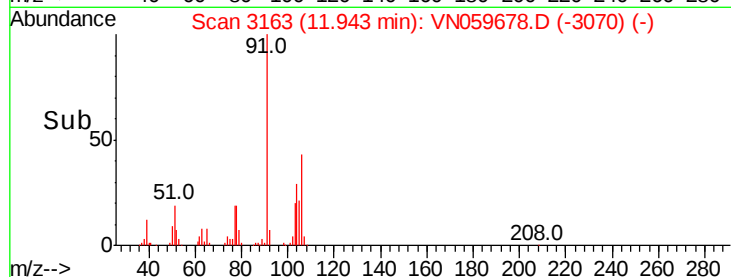
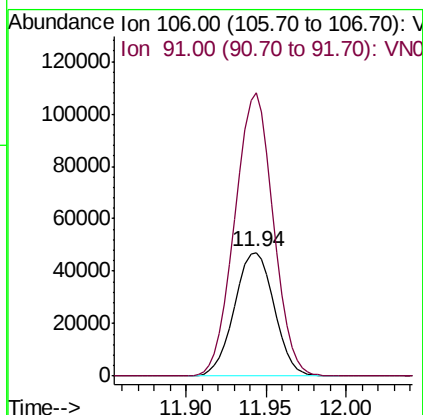
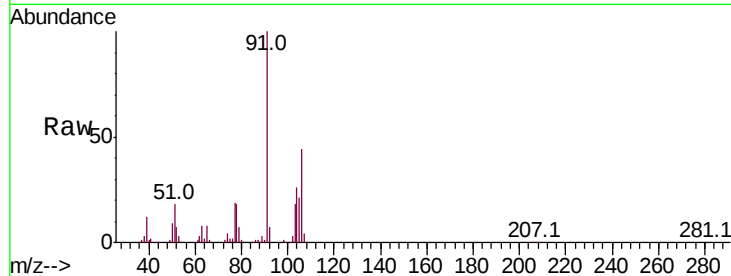




#69
o-Xylene
Concen: 23.442 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

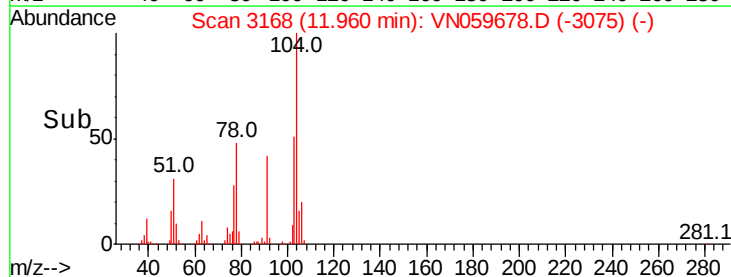
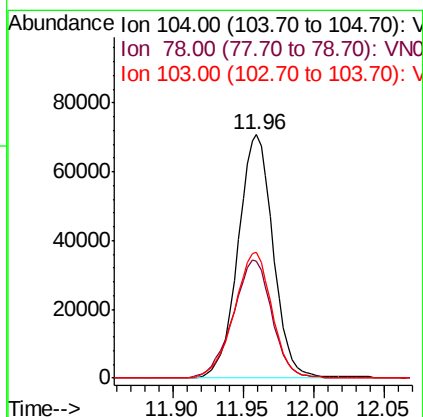
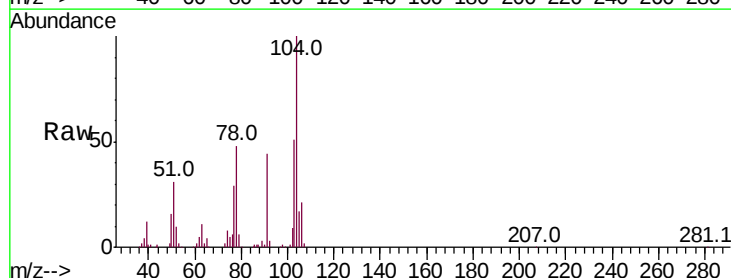
Instrument :
MSVOA_X
ClientSampled :

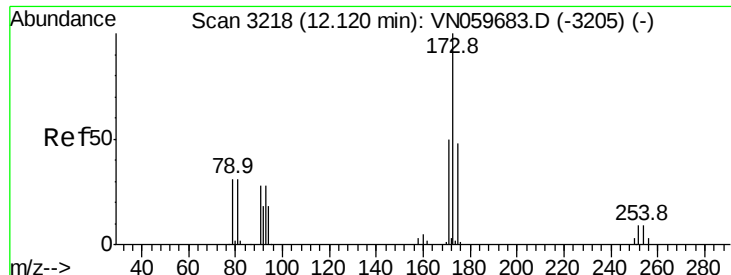
Tot Ion:106 Resp: 79917
Ion Ratio Lower Upper
106 100
91 222.0 110.3 330.9



#70
Styrene
Concen: 22.575 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion:104 Resp: 123189
Ion Ratio Lower Upper
104 100
78 53.9 43.7 65.5
103 55.8 45.6 68.4





#71

Bromoform

Concen: 25.488 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

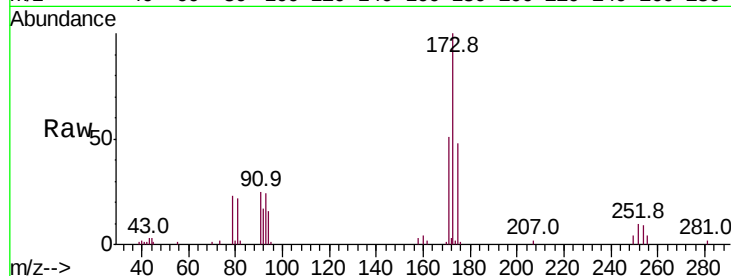
Tot Ion:173 Resp: 38871

Ion Ratio Lower Upper

173 100

175 49.8 24.3 72.9

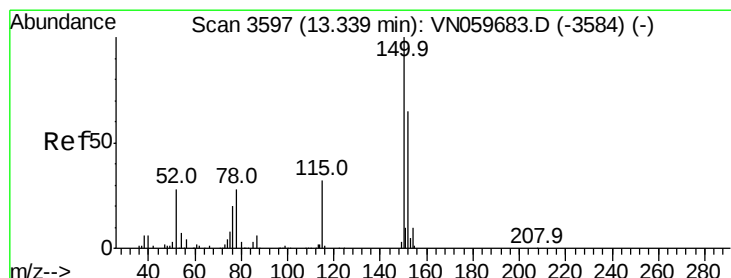
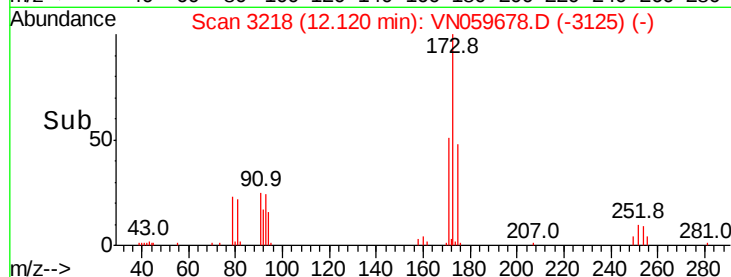
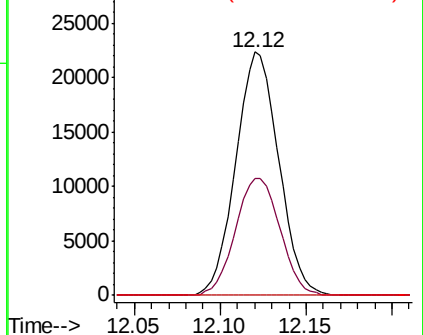
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

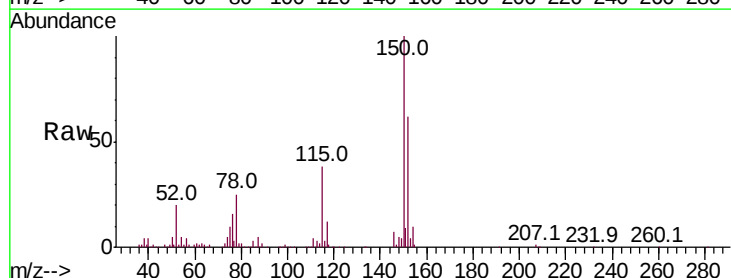
Tgt Ion:152 Resp: 136241

Ion Ratio Lower Upper

152 100

115 59.6 31.6 94.7

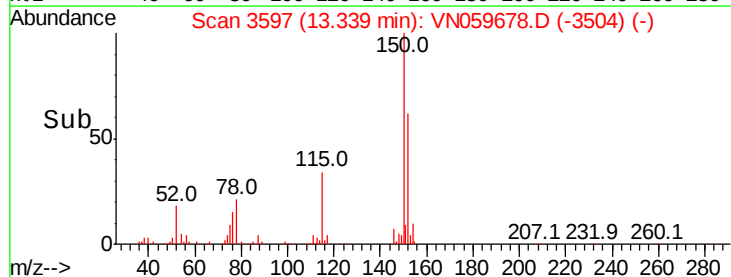
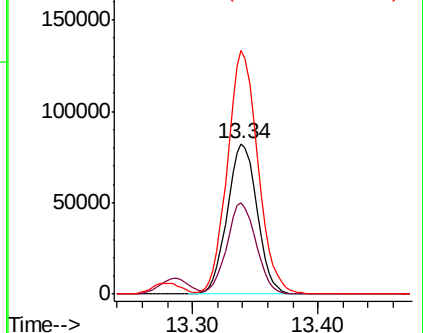
150 165.2 0.0 345.0

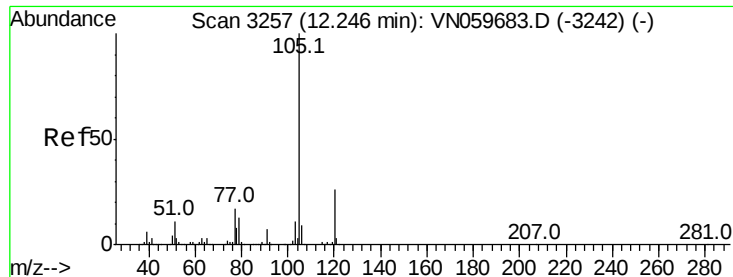


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.320 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

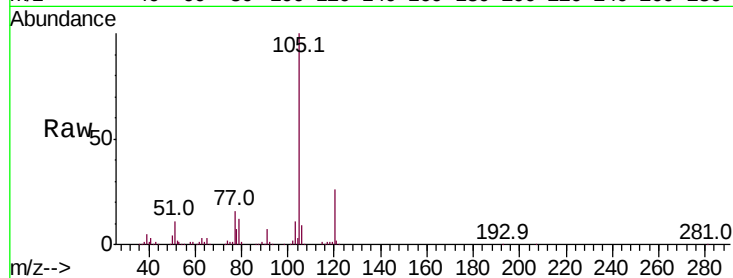
ClientSampleId :

Tot Ion:105 Resp: 241561

Ion Ratio Lower Upper

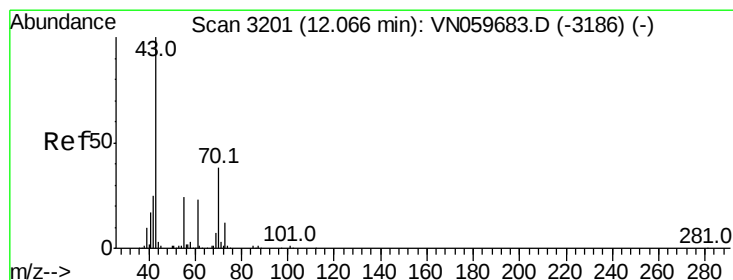
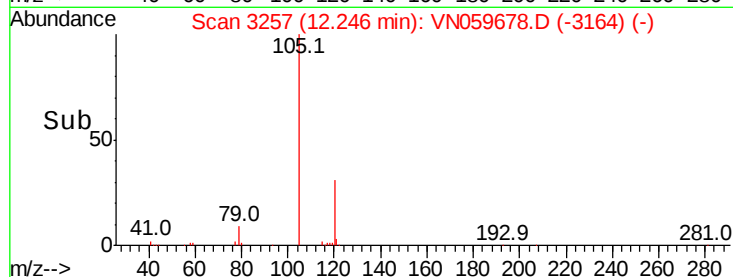
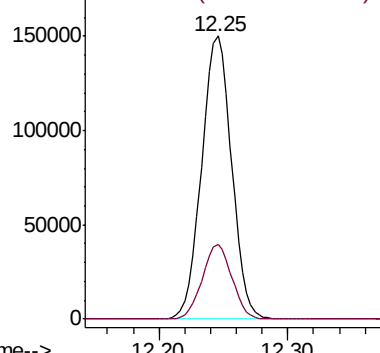
105 100

120 26.1 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.691 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Tgt Ion: 43 Resp: 97213

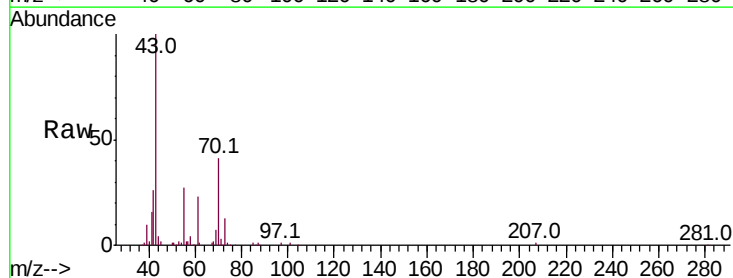
Ion Ratio Lower Upper

43 100

70 39.8 30.5 45.7

55 27.0 19.4 29.2

61 22.9 17.7 26.5

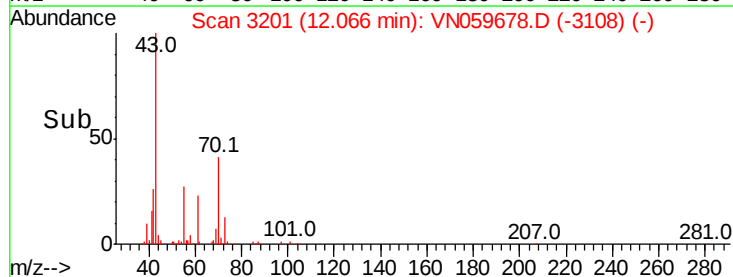
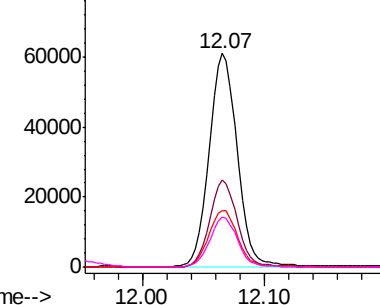


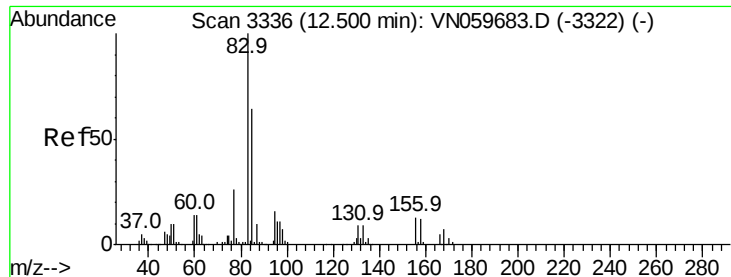
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.669 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

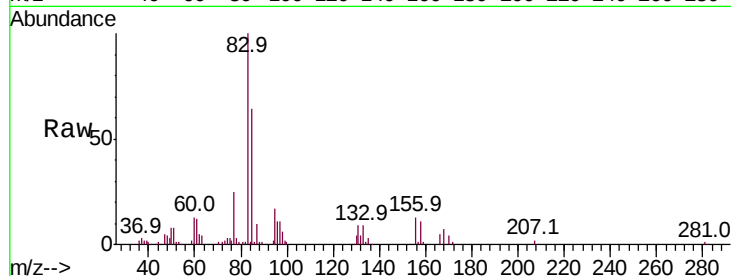
Tot Ion: 83 Resp: 75106

Ion Ratio Lower Upper

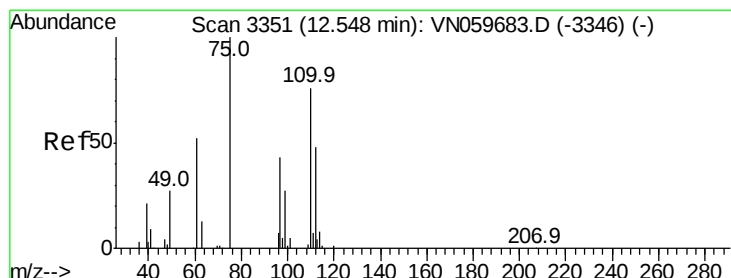
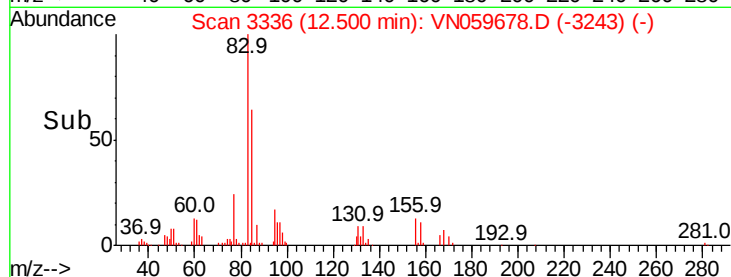
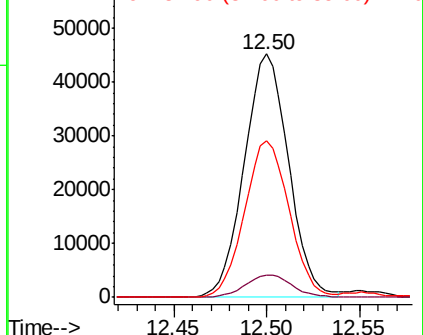
83 100

131 9.6 4.7 14.1

85 64.5 31.8 95.3



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 32.130 ug/l

RT: 12.55 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VN059678.D

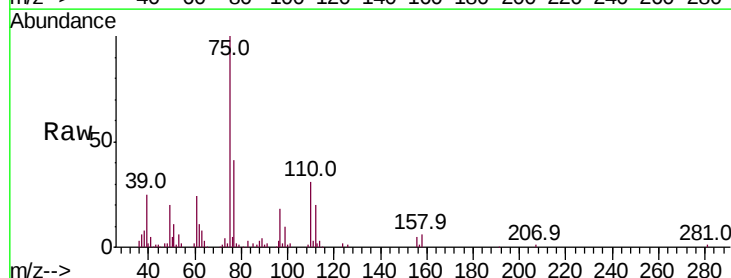
Acq: 20 Dec 2019 14:08

Tgt Ion: 75 Resp: 111710

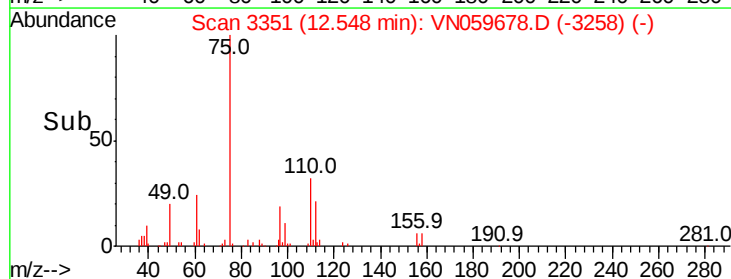
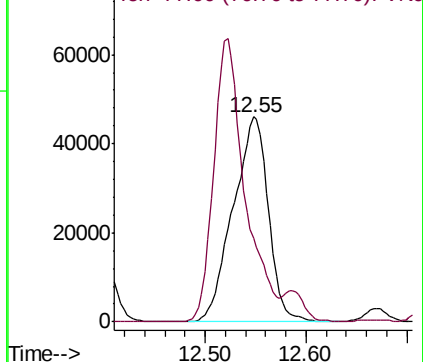
Ion Ratio Lower Upper

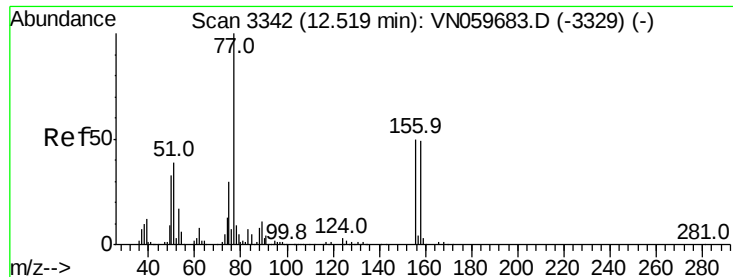
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 21.913 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

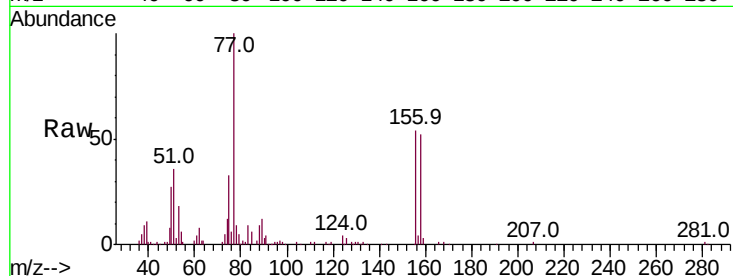
Tot Ion:156 Resp: 58843

Ion Ratio Lower Upper

156 100

77 233.0 120.8 362.5

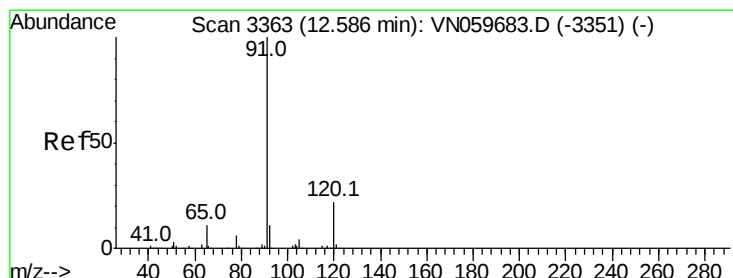
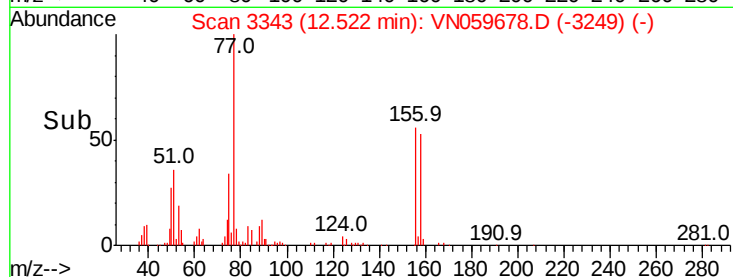
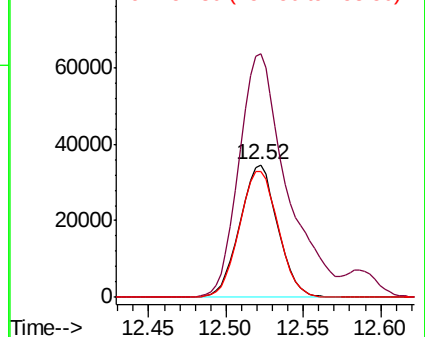
158 97.7 48.5 145.5



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 22.030 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN059678.D

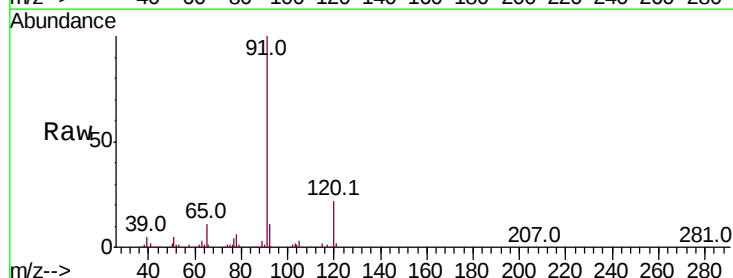
Acq: 20 Dec 2019 14:08

Tgt Ion: 91 Resp: 284631

Ion Ratio Lower Upper

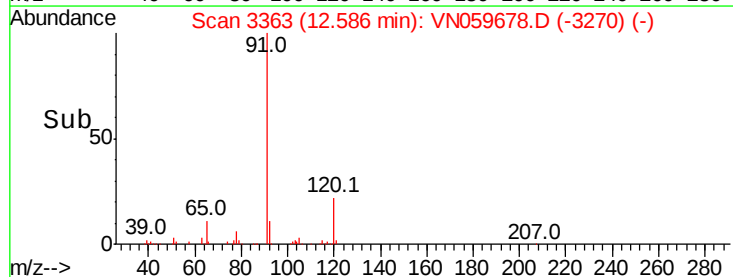
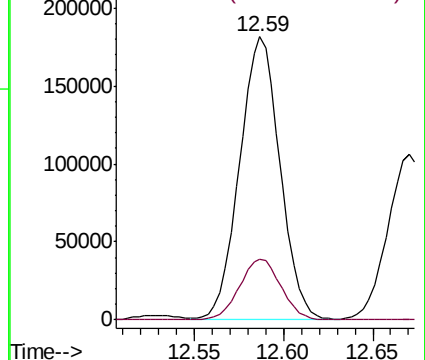
91 100

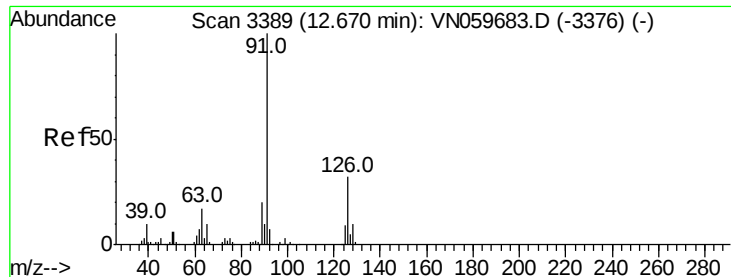
120 22.1 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.154 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

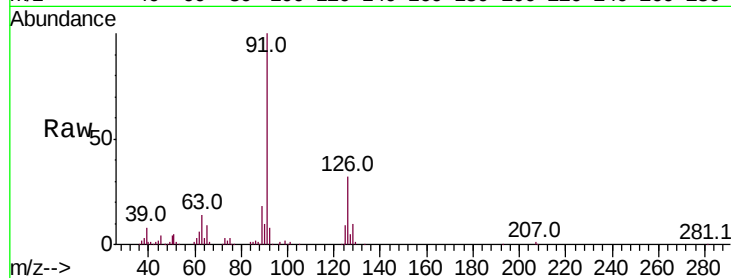
ClientSampleId :

Tot Ion: 91 Resp: 172898

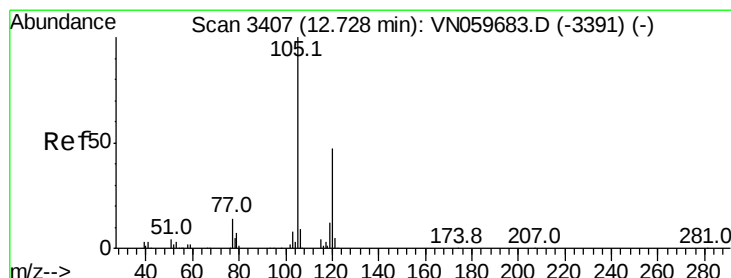
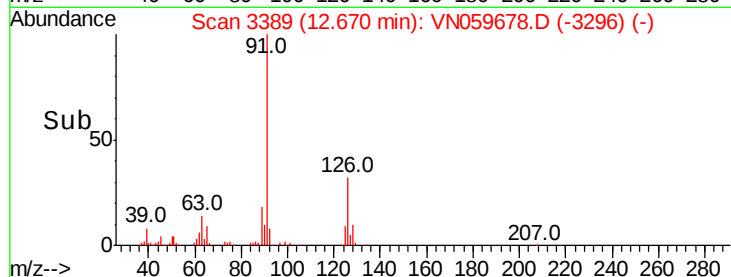
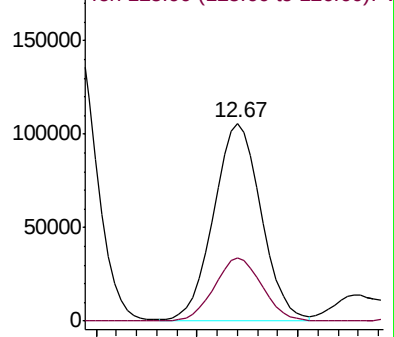
Ion Ratio Lower Upper

91 100

126 32.5 16.1 48.2



Abundance Ion 91.00 (90.70 to 91.70): VN059678.D (-3376) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.286 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059678.D

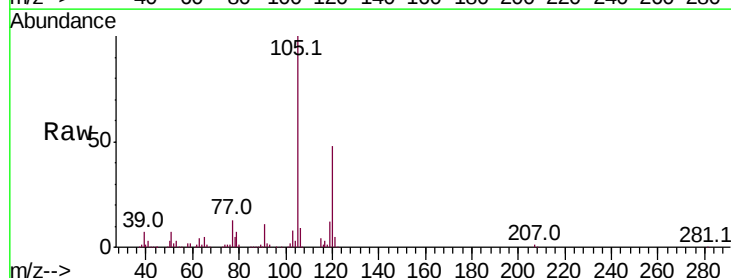
Acq: 20 Dec 2019 14:08

Tgt Ion: 105 Resp: 207271

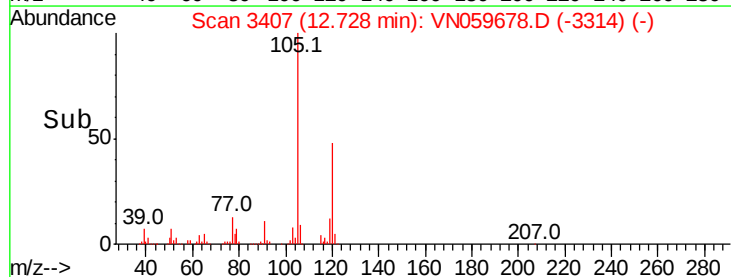
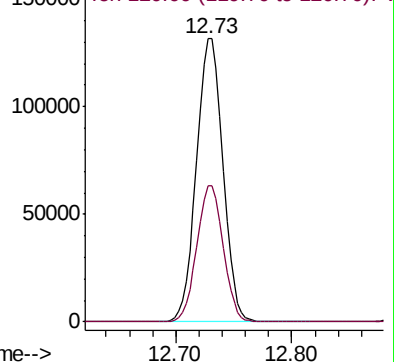
Ion Ratio Lower Upper

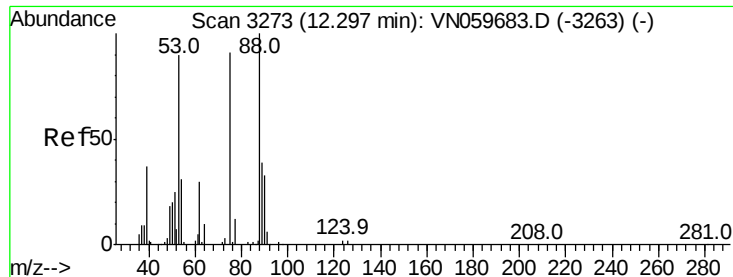
105 100

120 47.7 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VN059678.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 20.509 ug/l

RT: 12.29 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

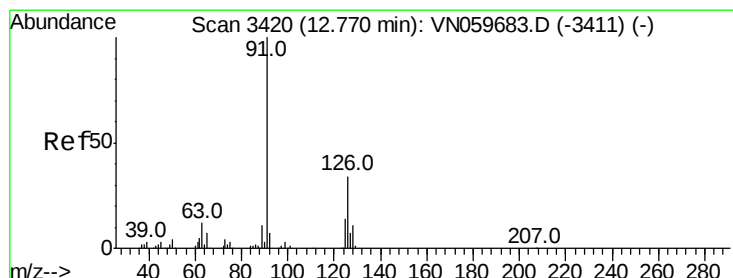
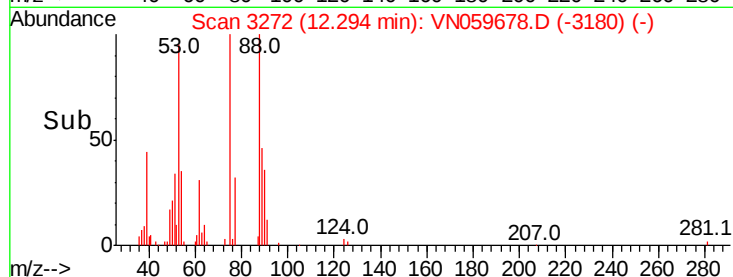
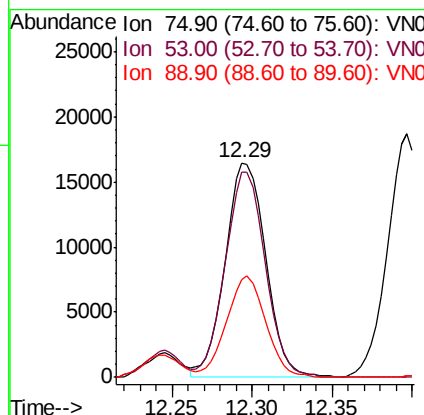
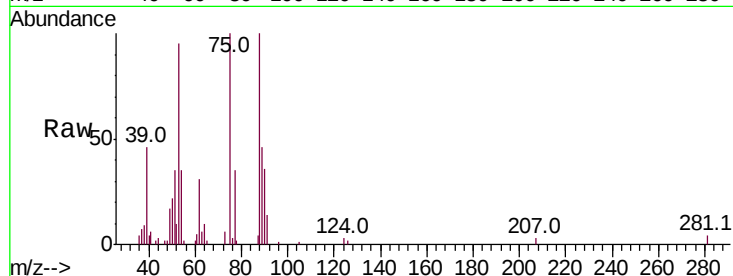
Tot Ion: 75 Resp: 28552

Ion Ratio Lower Upper

75 100

53 94.7 79.6 119.4

89 45.5 35.4 53.2



#82

4-Chlorotoluene

Concen: 21.831 ug/l

RT: 12.77 min Scan# 3420

Delta R.T. 0.00 min

Lab File: VN059678.D

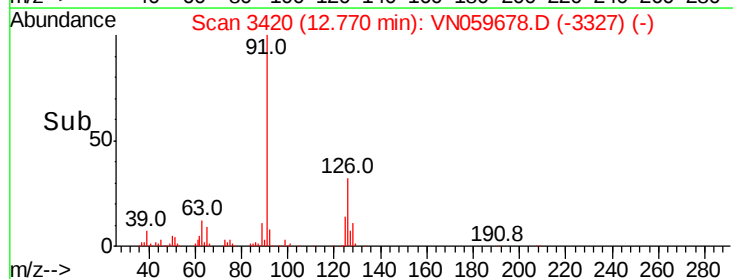
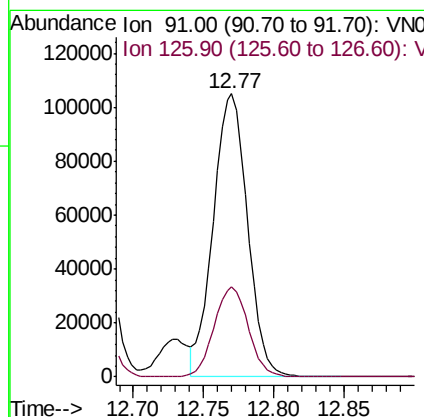
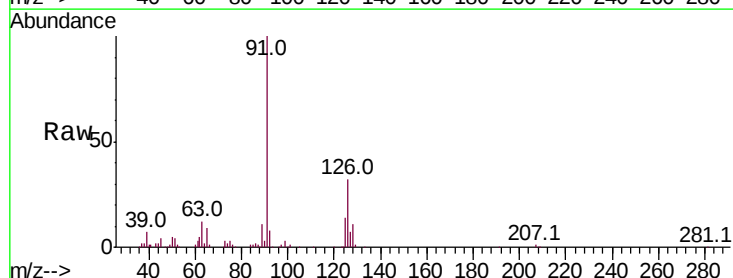
Acq: 20 Dec 2019 14:08

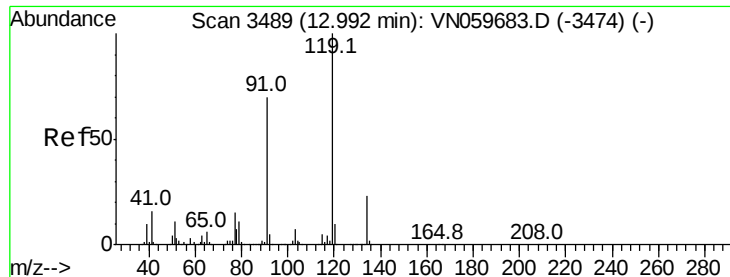
Tgt Ion: 91 Resp: 175834

Ion Ratio Lower Upper

91 100

126 32.0 15.8 47.3





#83

tert-Butylbenzene

Concen: 21.160 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

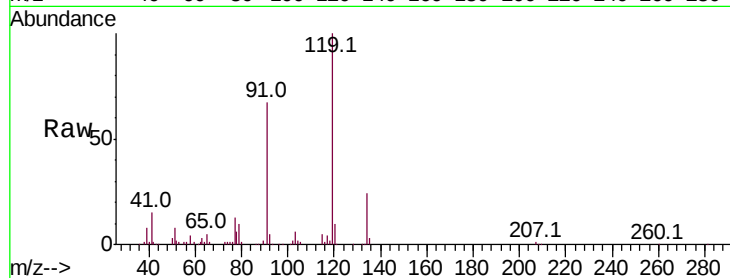
Tot Ion:119 Resp: 164020

Ion Ratio Lower Upper

119 100

91 65.3 35.1 105.5

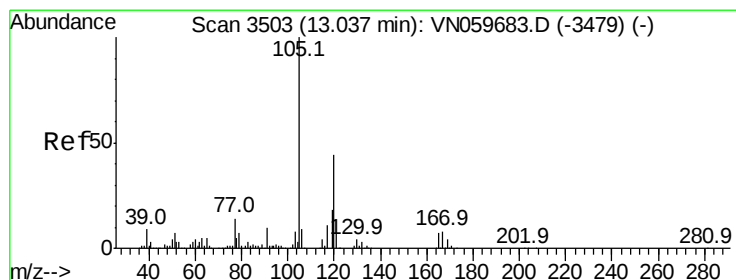
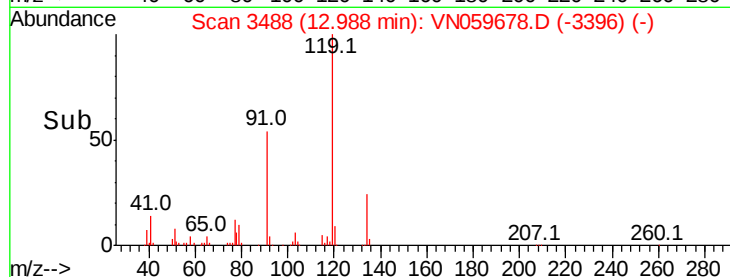
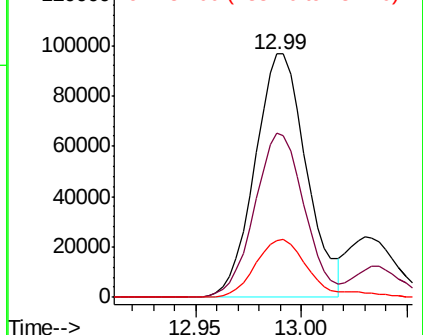
134 23.4 11.6 34.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.932 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN059678.D

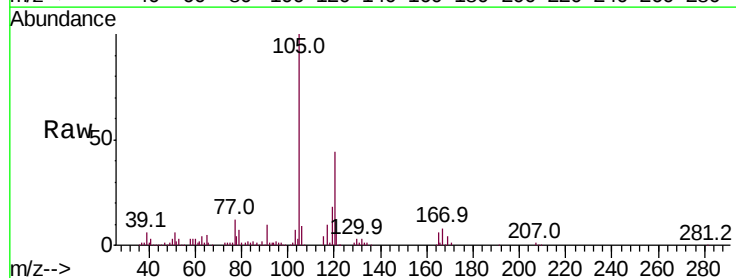
Acq: 20 Dec 2019 14:08

Tgt Ion:105 Resp: 194099

Ion Ratio Lower Upper

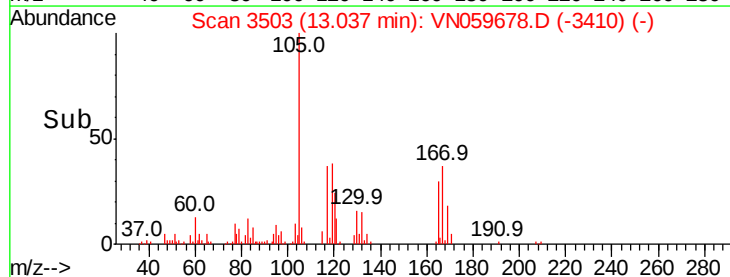
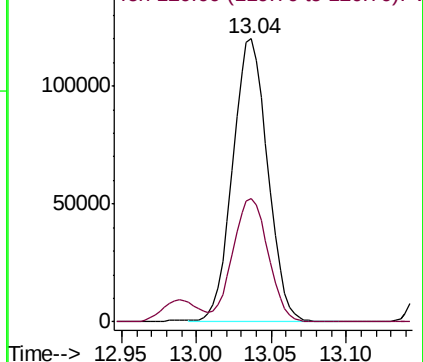
105 100

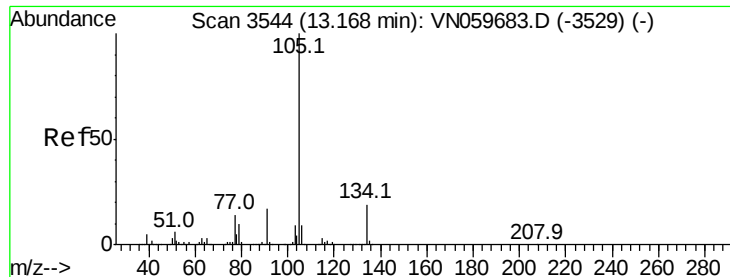
120 44.6 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.116 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

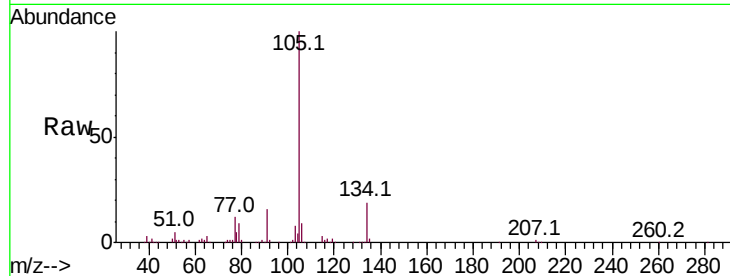
ClientSampleId :

Tot Ion:105 Resp: 221477

Ion Ratio Lower Upper

105 100

134 19.6 9.4 28.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

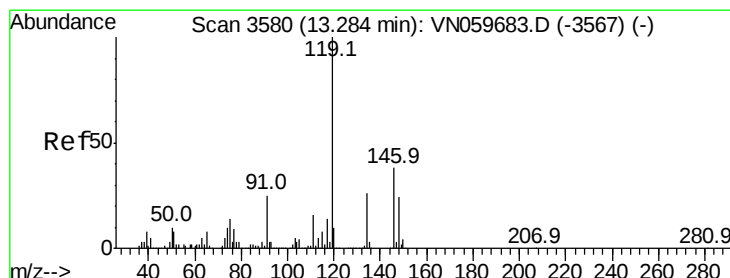
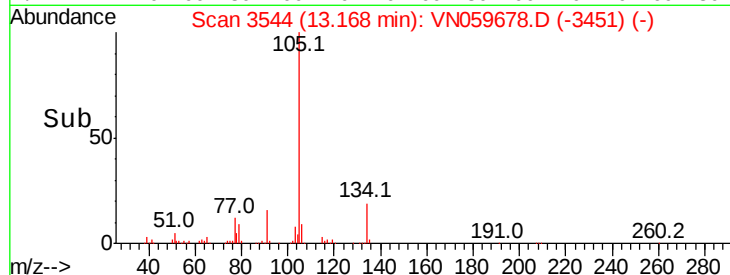
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 21.666 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

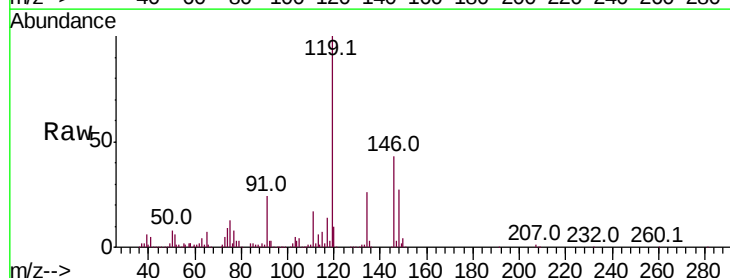
Tgt Ion:119 Resp: 200031

Ion Ratio Lower Upper

119 100

134 25.7 12.8 38.4

91 24.3 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.28

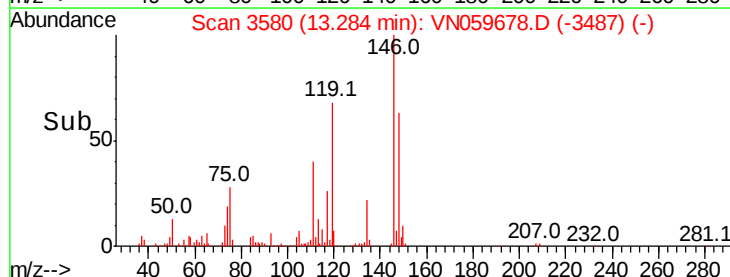
150000

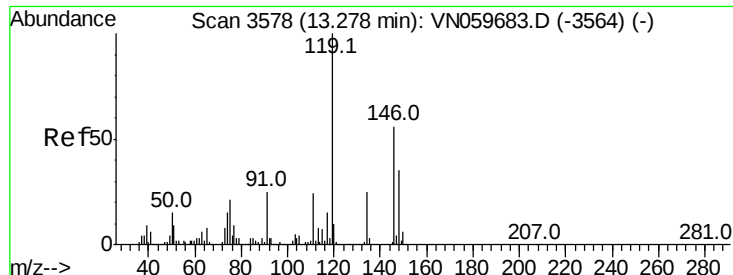
100000

50000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 21.064 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampled :

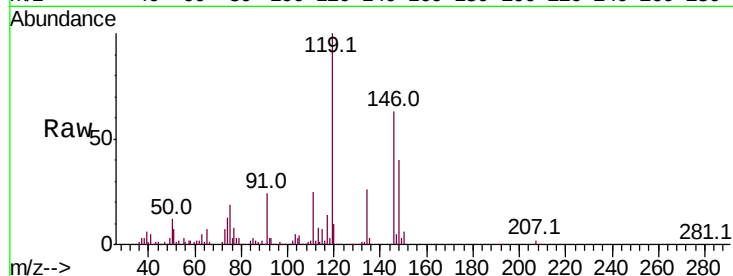
Tot Ion:146 Resp: 101260

Ion Ratio Lower Upper

146 100

111 40.5 21.3 63.9

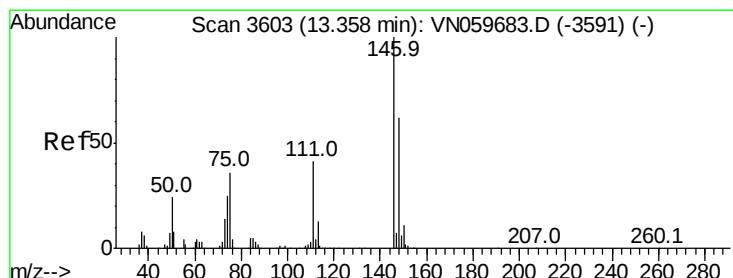
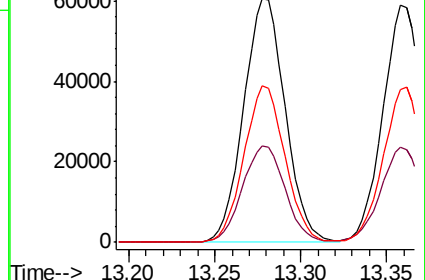
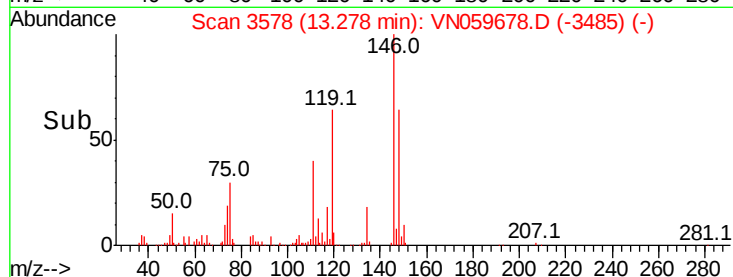
148 63.3 31.4 94.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 20.264 ug/l

RT: 13.36 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

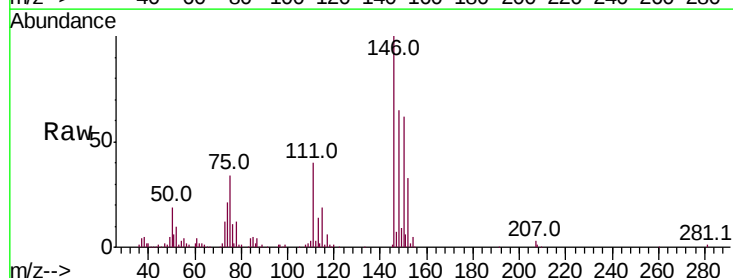
Tgt Ion:146 Resp: 97897

Ion Ratio Lower Upper

146 100

111 41.6 21.3 63.7

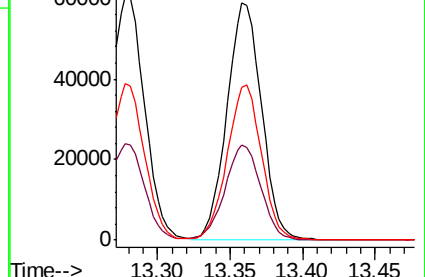
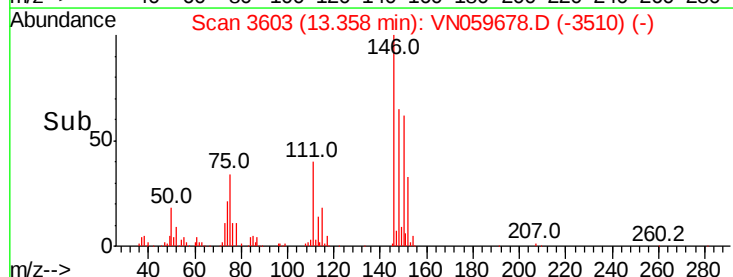
148 64.7 31.6 94.8

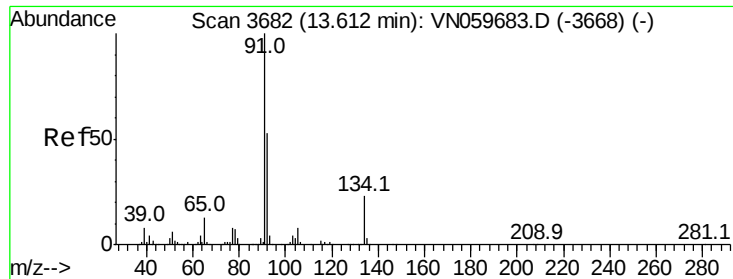


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

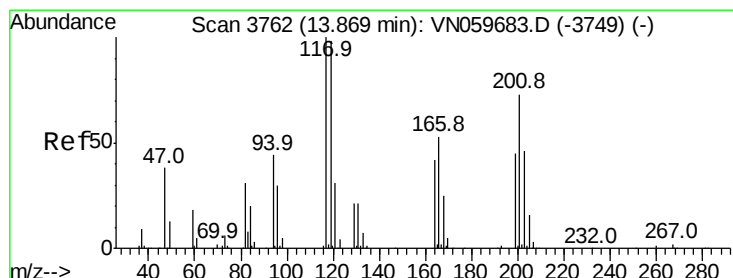
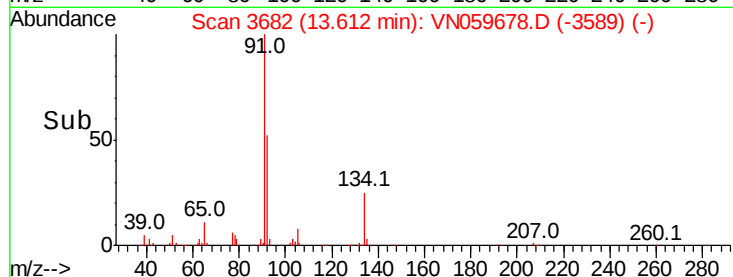
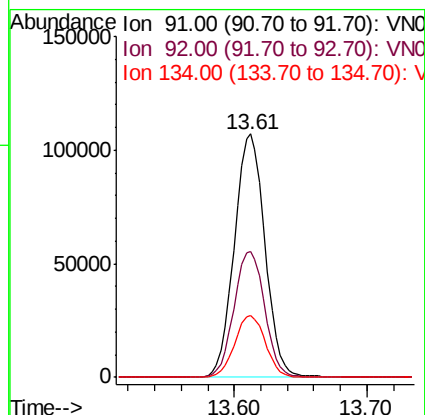
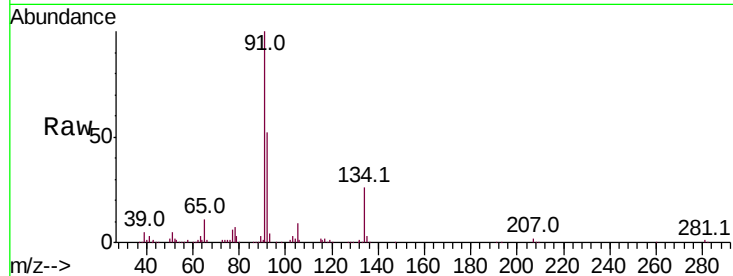




#89
n-Butylbenzene
Concen: 19.889 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

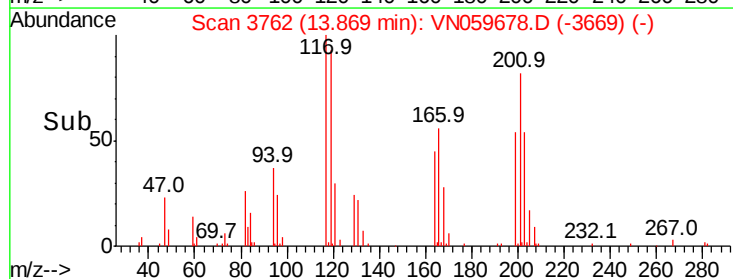
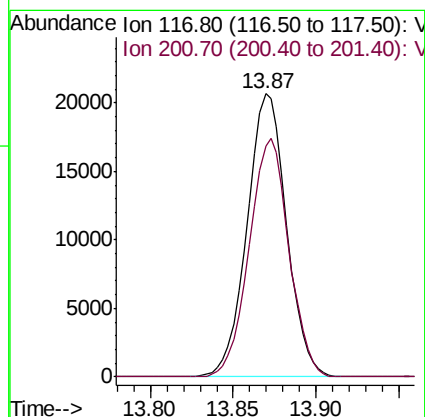
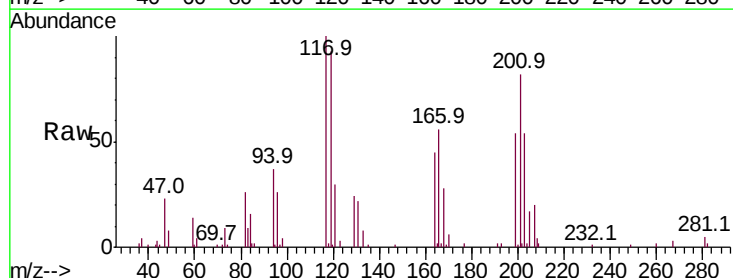
Instrument :
MSVOA_X
ClientSampled :

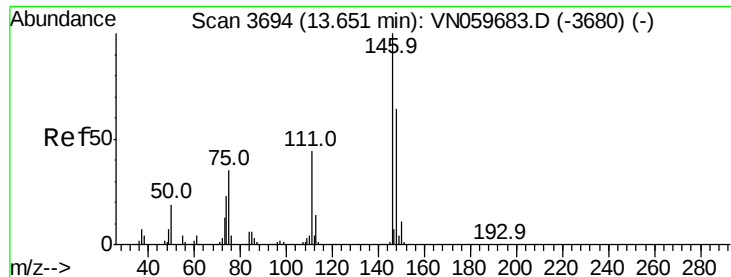
Tot Ion: 91 Resp: 171799
Ion Ratio Lower Upper
91 100
92 51.8 25.9 77.6
134 25.5 11.6 34.7



#90
Hexachloroethane
Concen: 19.334 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN059678.D
Acq: 20 Dec 2019 14:08

Tgt Ion: 117 Resp: 34237
Ion Ratio Lower Upper
117 100
201 84.4 36.2 108.6

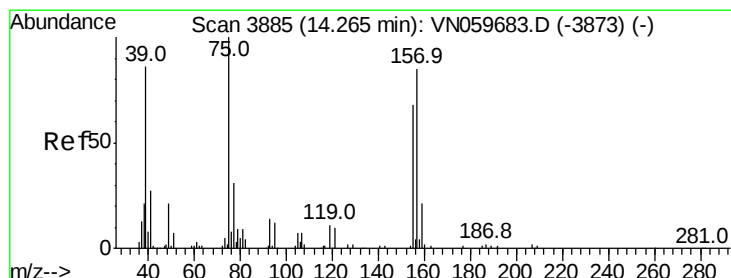
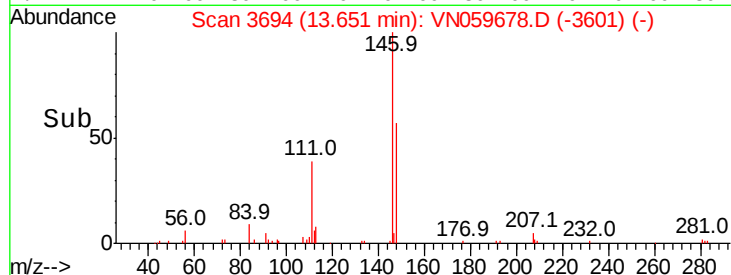
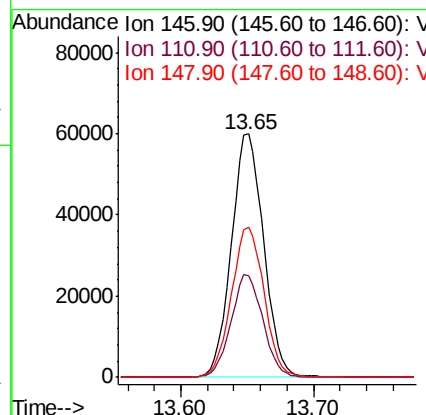
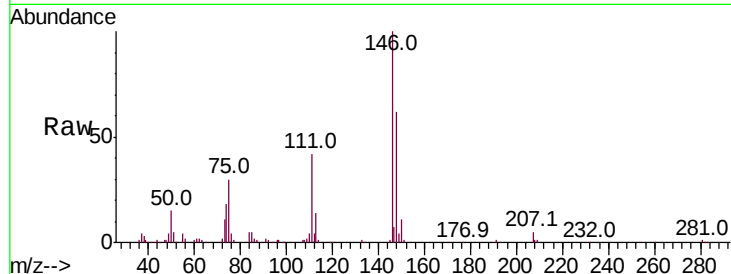




#91
 1,2-Dichlorobenzene
 Concen: 21.520 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

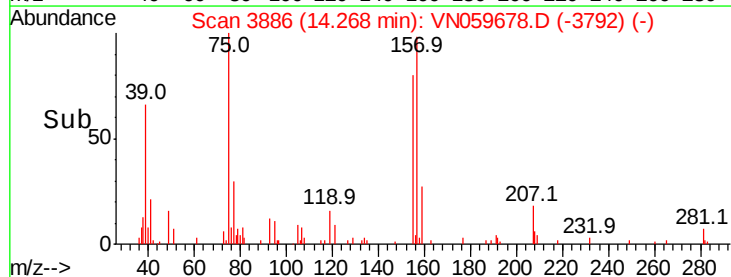
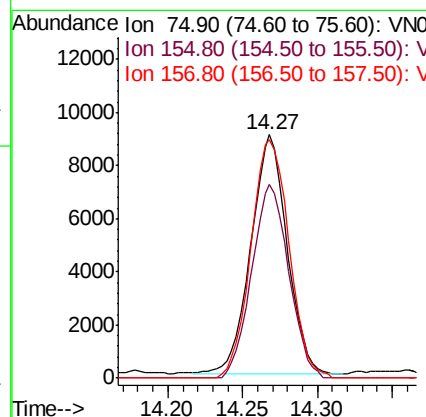
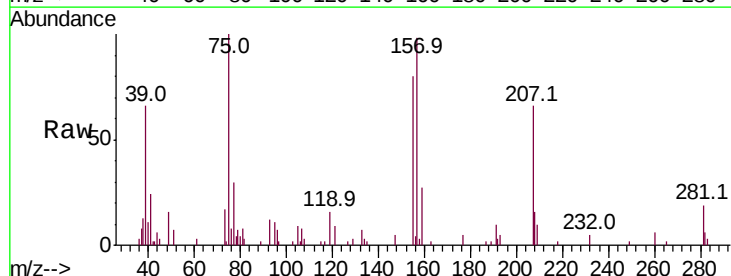
Instrument :
 MSVOA_X
 ClientSampleId :

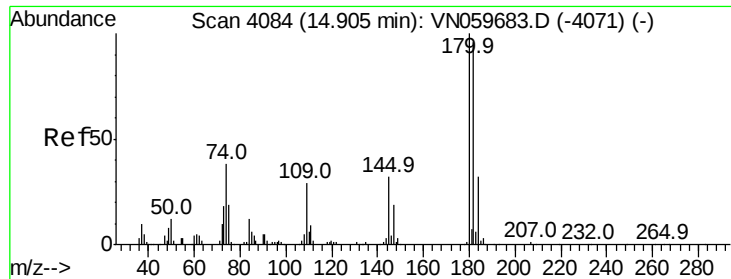
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	22.2	66.6
148	62.3	32.1	96.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 15.031 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.8	34.5	103.5
157	105.2	43.3	129.8

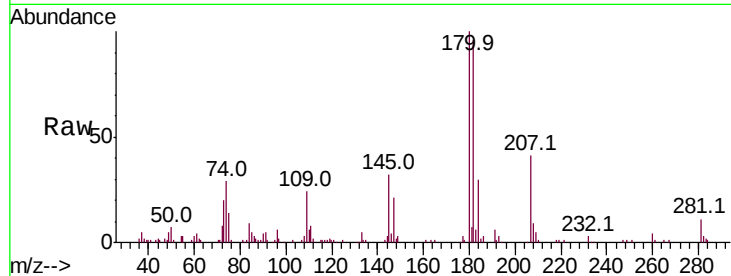




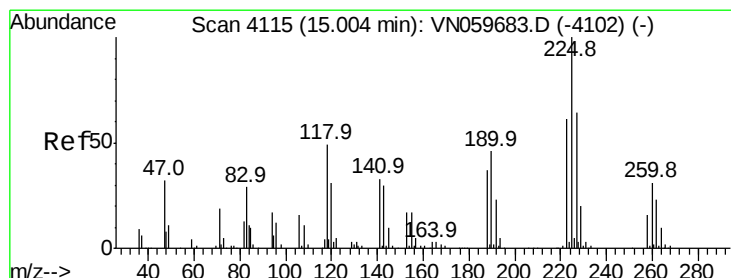
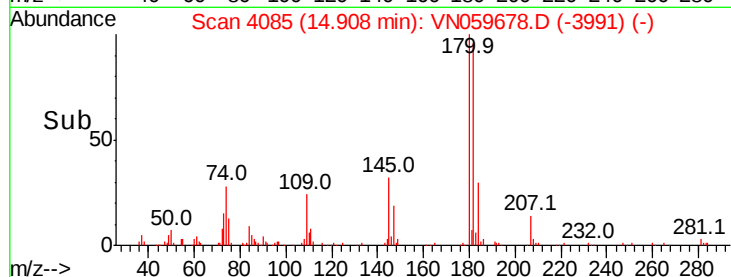
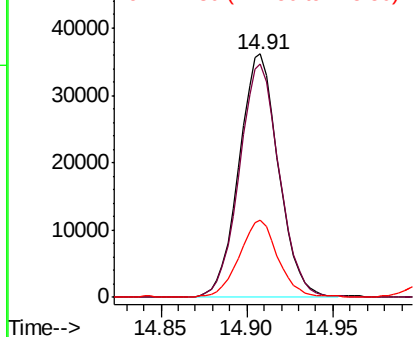
#93
 1,2,4-Trichlorobenzene
 Concen: 18.974 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:	180	Resp:	57791
Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.8	143.4
145	31.4	15.7	47.0

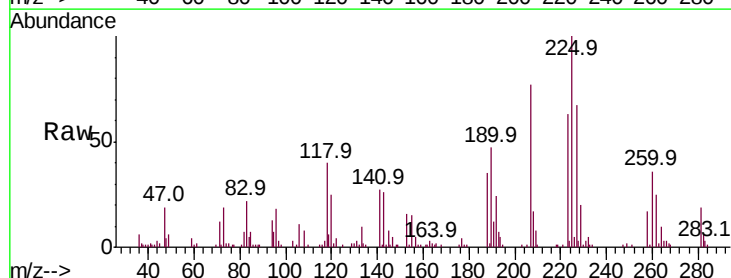


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

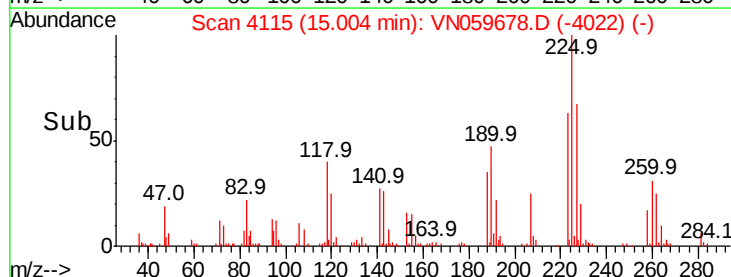
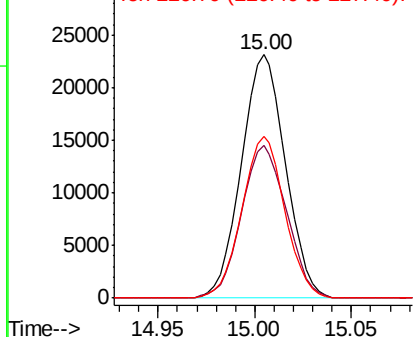


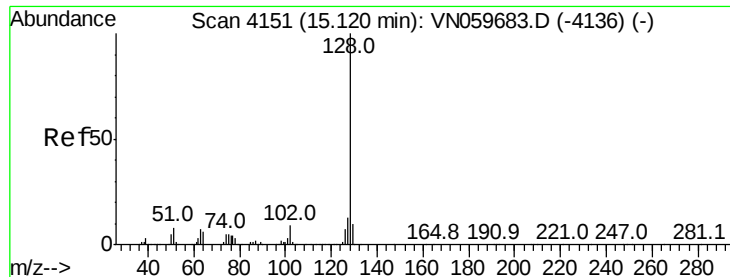
#94
 Hexachlorobutadiene
 Concen: 22.370 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VN059678.D
 Acq: 20 Dec 2019 14:08

Tgt Ion:	225	Resp:	36691
Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.0	93.0
227	64.6	32.1	96.5



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 17.746 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

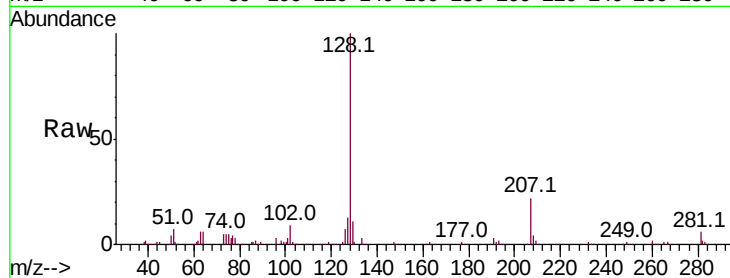
Tot Ion:128 Resp: 160388

Ion Ratio Lower Upper

128 100

127 12.4 10.6 15.8

129 10.8 8.3 12.5

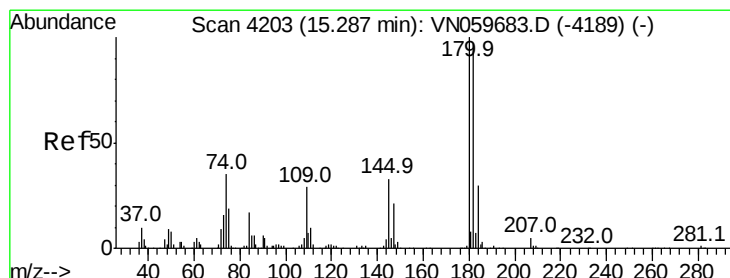
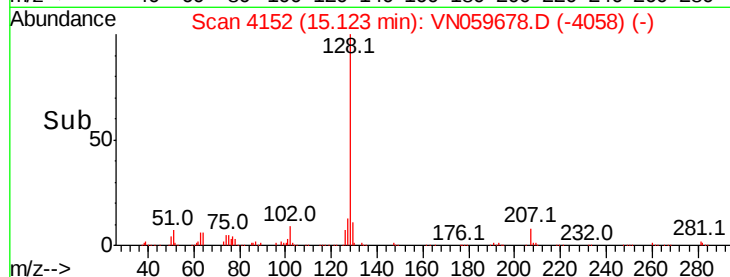
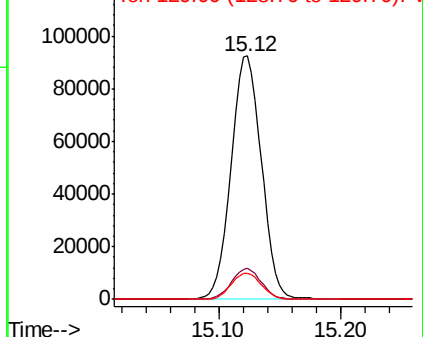


Abundance

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



#96

1,2,3-Trichlorobenzene

Concen: 18.834 ug/l

RT: 15.29 min Scan# 4204

Delta R.T. 0.00 min

Lab File: VN059678.D

Acq: 20 Dec 2019 14:08

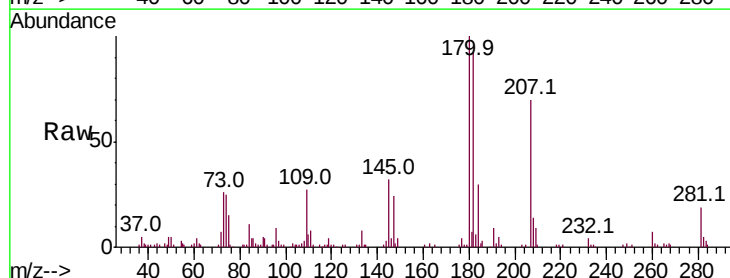
Tgt Ion:180 Resp: 58681

Ion Ratio Lower Upper

180 100

182 95.6 47.9 143.7

145 33.2 16.6 49.8



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

