

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112219\
 Data File : VX013528.D
 Acq On : 22 Nov 2019 13:15
 Operator : JC/SP
 Sample : K5804-01DL 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GE-MW-58-1SDL

Quant Time: Nov 22 14:27:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	109964	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	624007	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	536289	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	237728	29.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.60%
60) 4-Bromofluorobenzene	11.14	95	248840	28.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.23%
63) Toluene-d8	8.71	98	738168	30.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.47%

Target Compounds

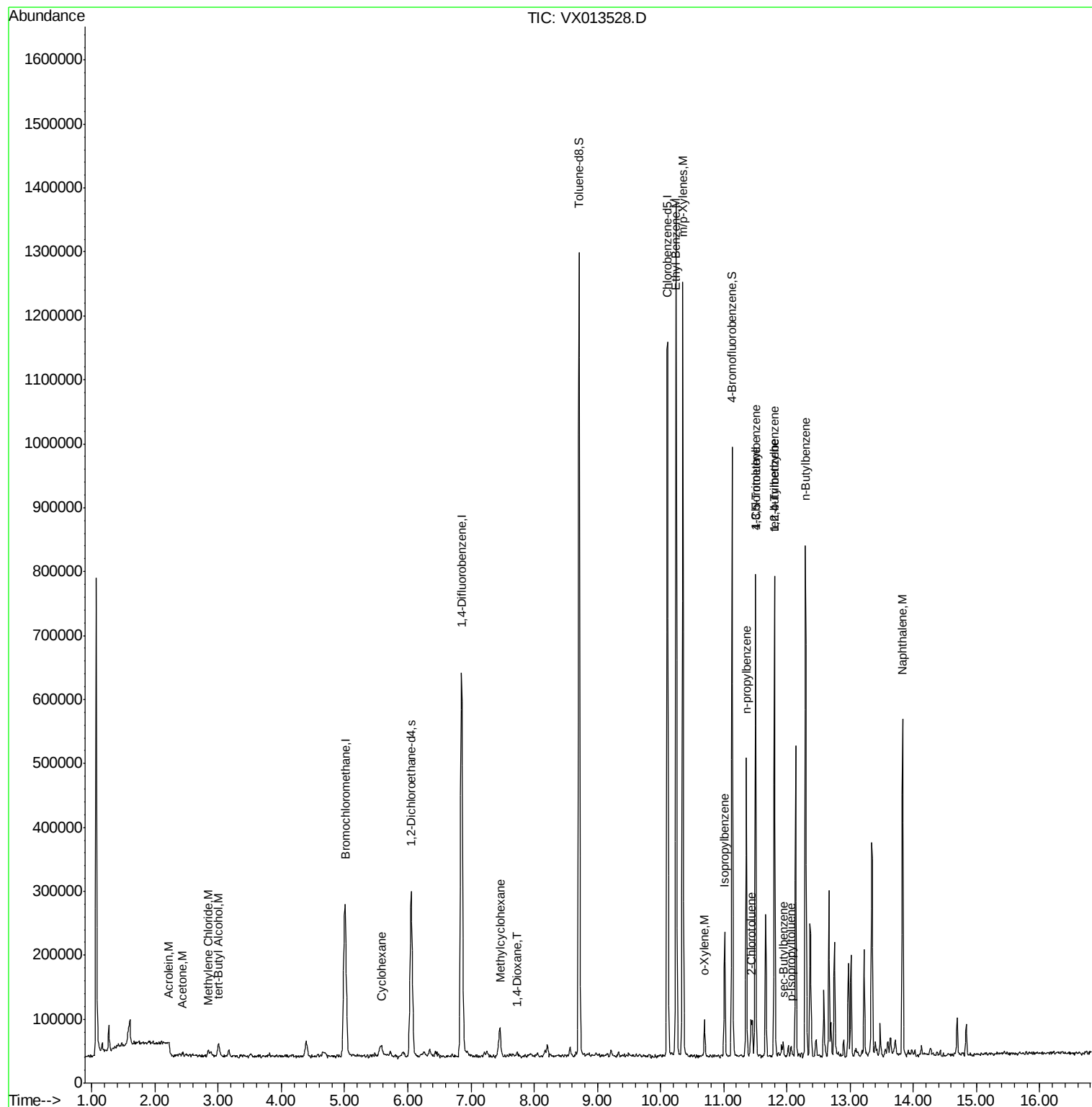
					Qvalue	
13) Acrolein	2.21	56	370	0.293	ug/l	97
15) Acetone	2.43	58	2294	1.731	ug/l	82
18) Methylene Chloride	2.84	84	3515	0.456	ug/l	91
23) tert-Butyl Alcohol	3.00	59	12406	5.891	ug/l #	100
26) Cyclohexane	5.58	56	13010	1.093	ug/l #	60
38) Methylcyclohexane	7.45	83	19940	1.706	ug/l	85
45) 1,4-Dioxane	7.73	88	43	0.211	ug/l #	1
66) Ethyl Benzene	10.25	91	764561	23.297	ug/l	98
67) m/p-Xylenes	10.35	106	278988	22.038	ug/l	98
68) o-Xylene	10.70	106	12908	1.057	ug/l	97
70) Isopropylbenzene	11.01	105	98174	3.050	ug/l	100
74) n-propylbenzene	11.35	91	275221	7.523	ug/l	100
75) 2-Chlorotoluene	11.43	91	4567	0.210	ug/l	56
76) 1,3,5-Trimethylbenzene	11.50	105	313576	11.589	ug/l	99
78) 4-Chlorotoluene	11.50	91	32433	1.301	ug/l	47
79) tert-butylbenzene	11.80	119	40770	1.493	ug/l	57
80) 1,2,4-Trimethylbenzene	11.80	105	342007	12.683	ug/l	97
81) sec-Butylbenzene	11.94	105	13408	0.430	ug/l	99
82) p-Isopropyltoluene	12.06	119	7506	0.262	ug/l	94
85) n-Butylbenzene	12.29	91	51099	2.063	ug/l	57
91) Naphthalene	13.83	128	323566	9.931	ug/l	100

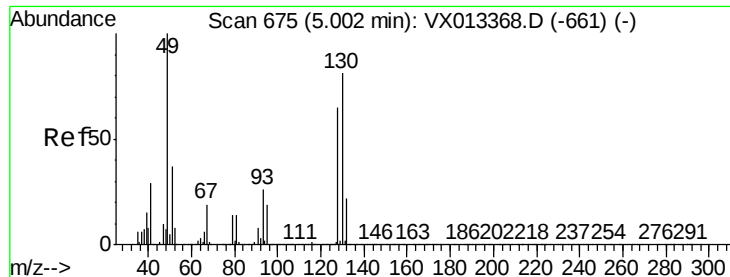
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX112219\
Data File : VX013528.D
Acq On : 22 Nov 2019 13:15
Operator : JC/SP
Sample : K5804-01DL 50X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
GE-MW-58-1SDL

Quant Time: Nov 22 14:27:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 12 01:16:13 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

GE-MW-58-1SDL

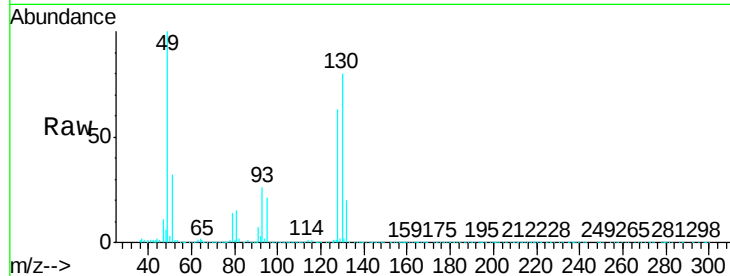
Tgt Ion:128 Resp: 109964

Ion Ratio Lower Upper

128 100

49 158.2 0.0 388.3

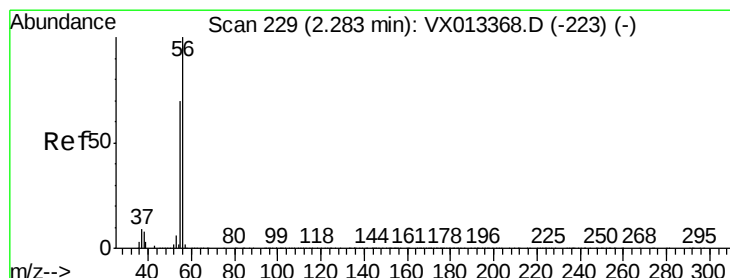
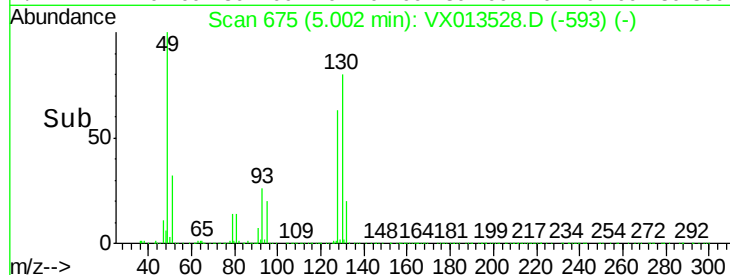
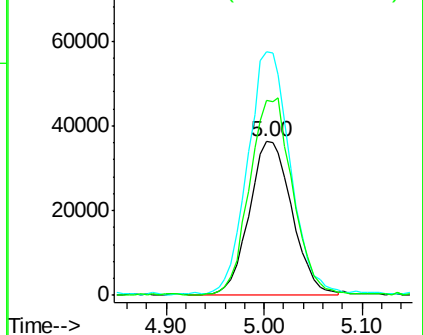
130 129.9 0.0 318.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.293 ug/l

RT: 2.21 min Scan# 217

Delta R.T. -0.07 min

Lab File: VX013528.D

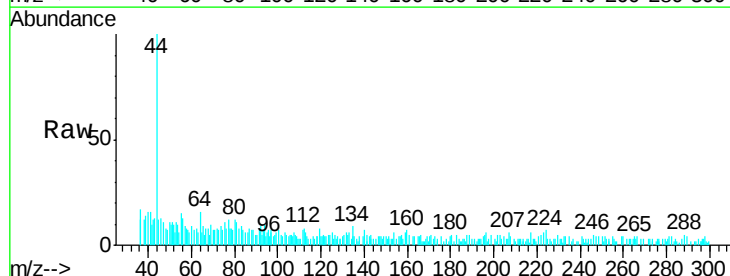
Acq: 22 Nov 2019 13:15

Tgt Ion: 56 Resp: 370

Ion Ratio Lower Upper

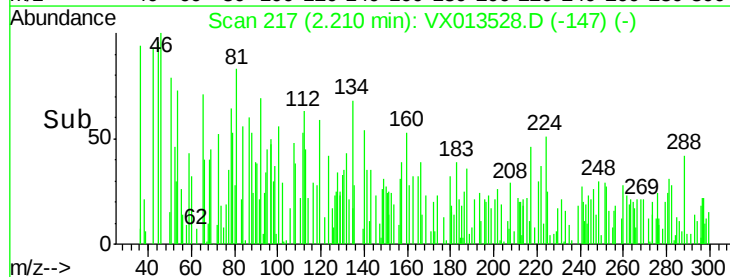
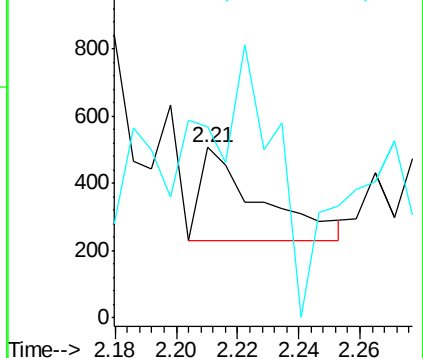
56 100

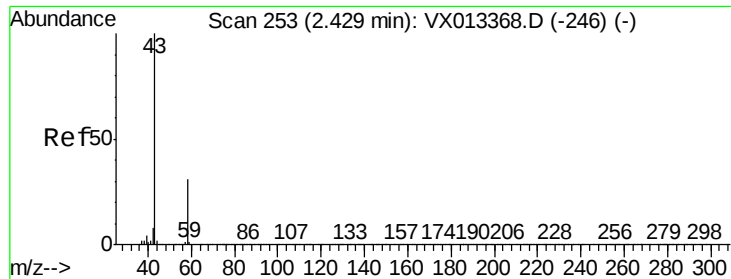
55 67.6 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 1.731 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

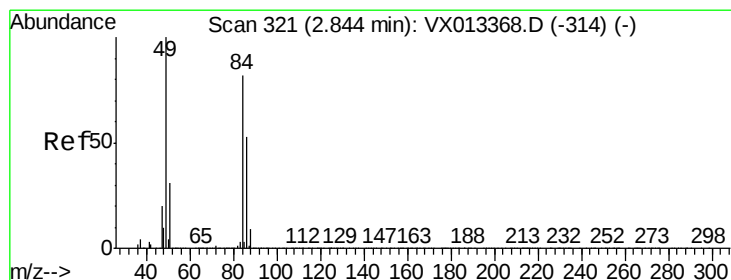
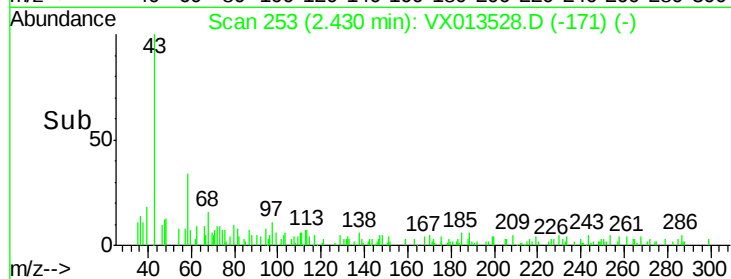
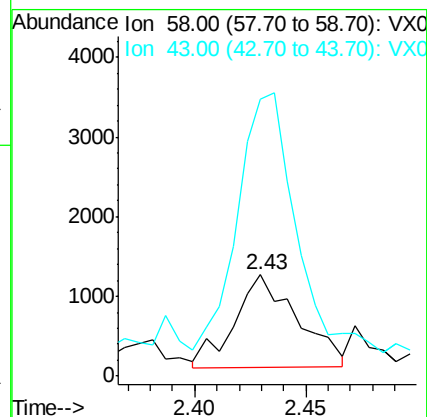
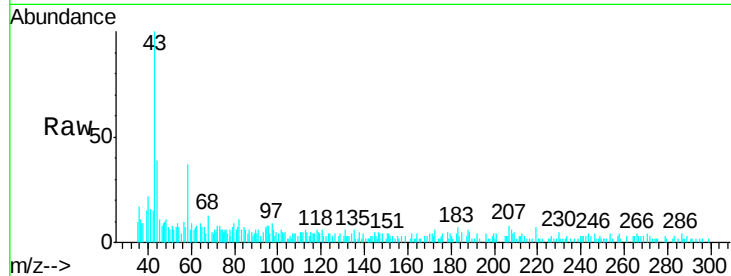
GE-MW-58-1SDL

Tgt Ion: 58 Resp: 2294

Ion Ratio Lower Upper

58 100

43 289.9 261.4 392.2



#18

Methylene Chloride

Concen: 0.456 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Tgt Ion: 84 Resp: 3515

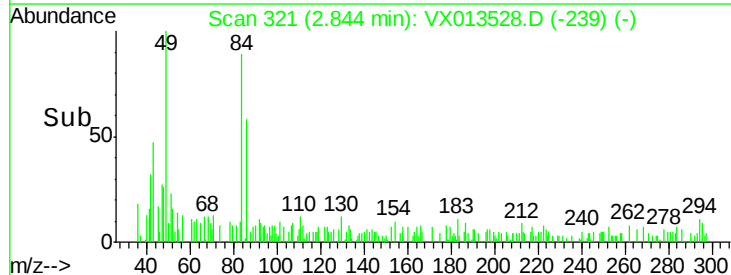
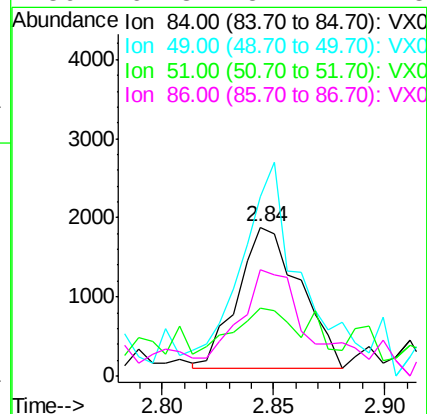
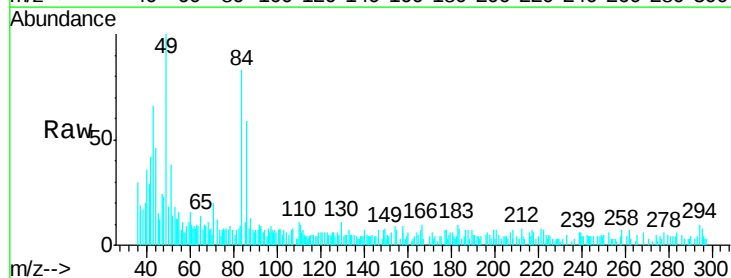
Ion Ratio Lower Upper

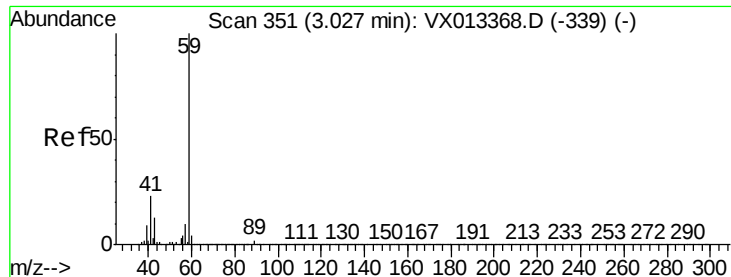
84 100

49 108.6 96.8 145.2

51 30.5 30.0 45.0

86 62.3 51.7 77.5



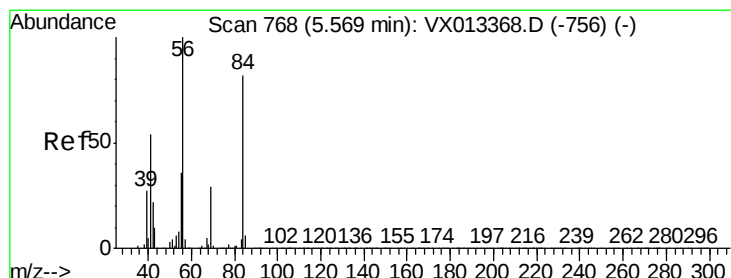
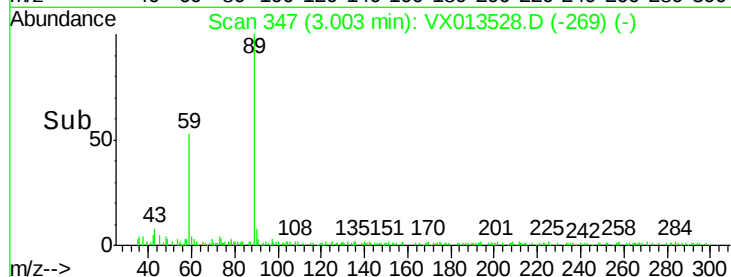
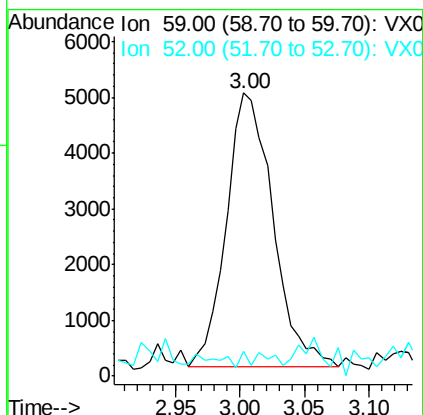
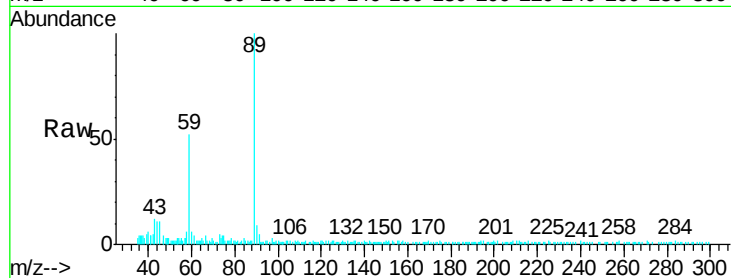


#23

tert-Butyl Alcohol
Concen: 5.891 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.02 min
Lab File: VX013528.D
Acq: 22 Nov 2019 13:15

Instrument :
MSVOA_X
ClientSampleId :
GE-MW-58-1SDL

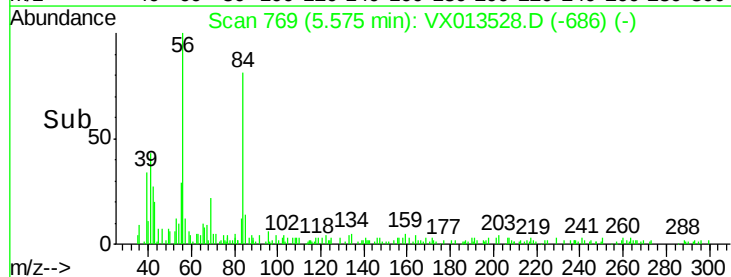
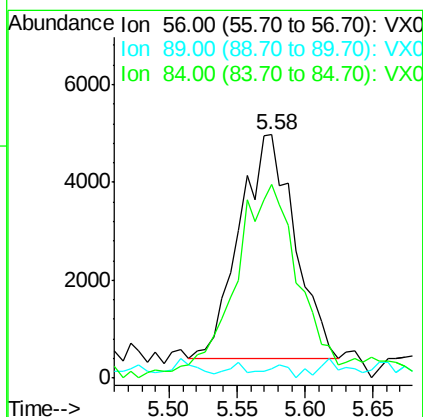
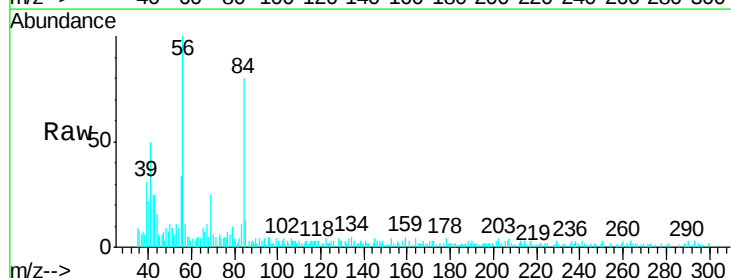
Tgt Ion: 59 Resp: 12406
Ion Ratio Lower Upper
59 100
52 1.0 0.1 0.1#

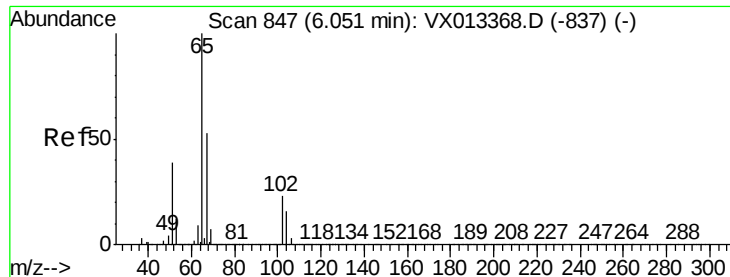


#26

Cyclohexane
Concen: 1.093 ug/l
RT: 5.58 min Scan# 769
Delta R.T. 0.01 min
Lab File: VX013528.D
Acq: 22 Nov 2019 13:15

Tgt Ion: 56 Resp: 13010
Ion Ratio Lower Upper
56 100
89 2.8 0.0 0.0#
84 51.3 70.5 105.7#





#27

1,2-Dichloroethane-d4

Concen: 29.277 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

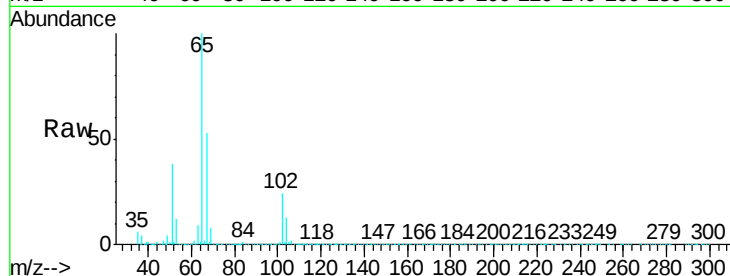
GE-MW-58-1SDL

Tgt Ion: 65 Resp: 237728

Ion Ratio Lower Upper

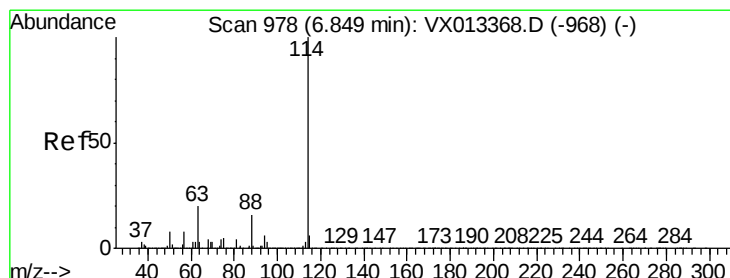
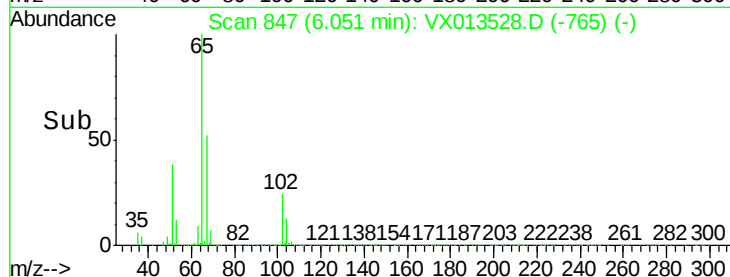
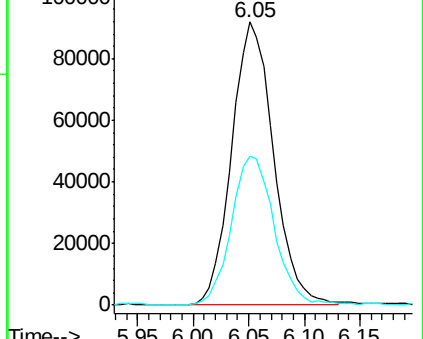
65 100

67 52.9 41.0 61.6



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

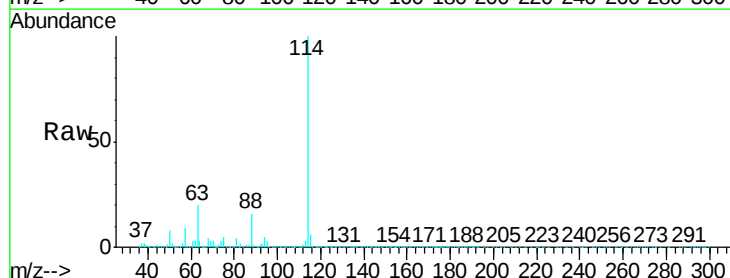
Tgt Ion: 114 Resp: 624007

Ion Ratio Lower Upper

114 100

63 19.9 16.1 24.1

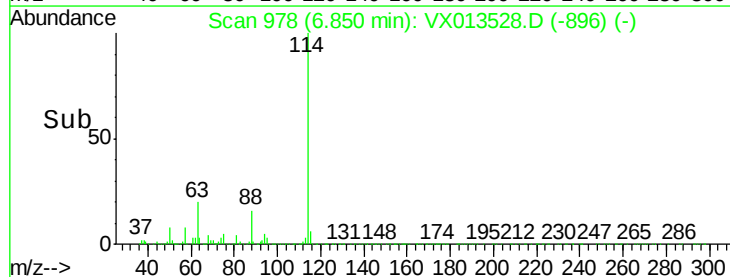
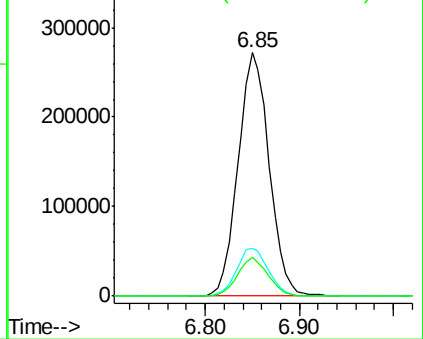
88 15.4 12.3 18.5

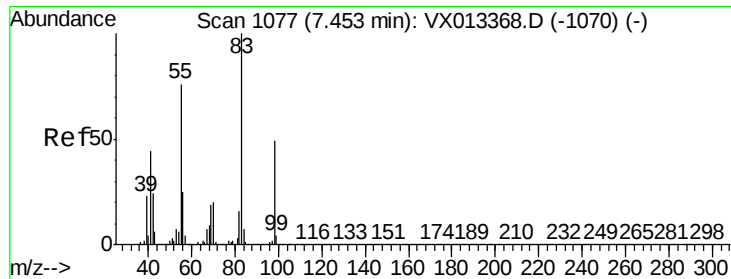


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

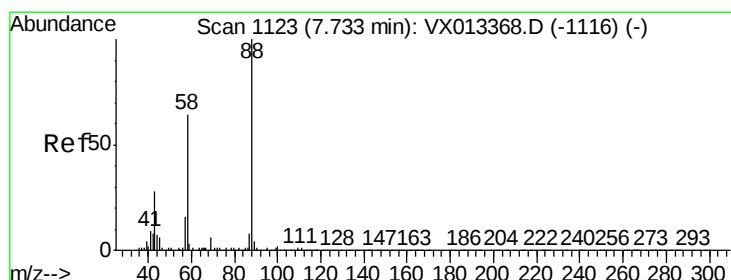
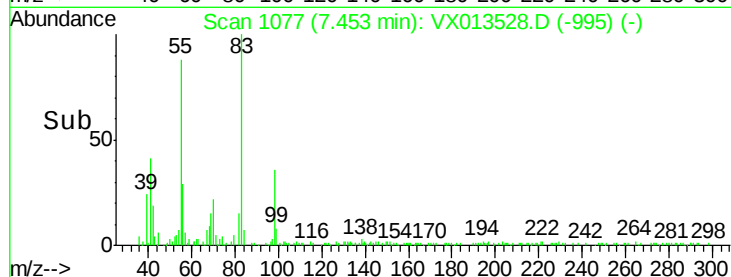
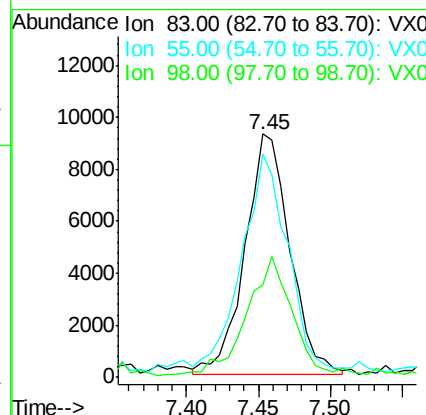
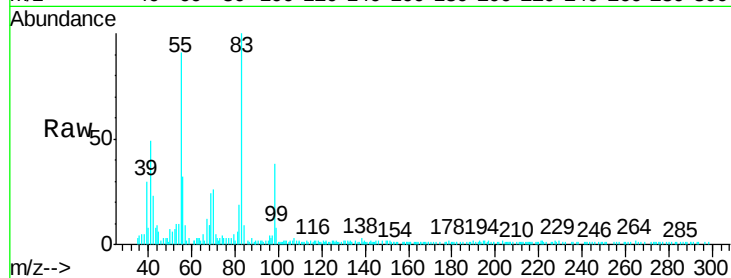




#38
Methylcyclohexane
Concen: 1.706 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VX013528.D
Acq: 22 Nov 2019 13:15

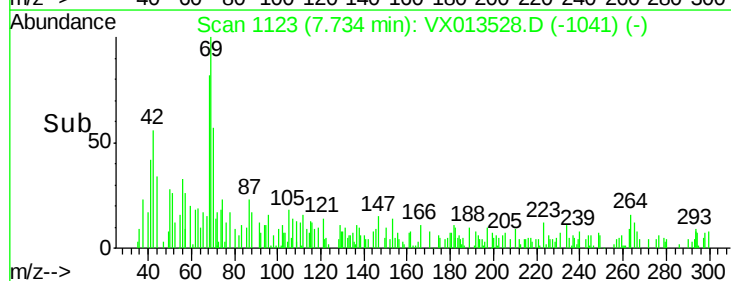
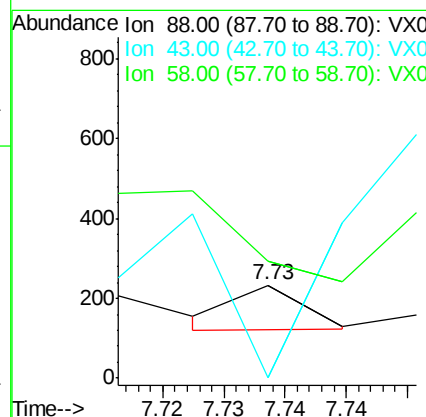
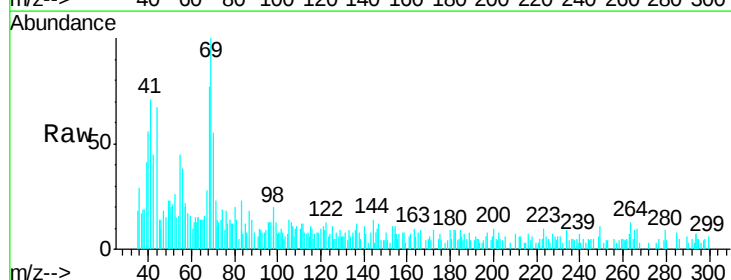
Instrument :
MSVOA_X
ClientSampleId :
GE-MW-58-1SDL

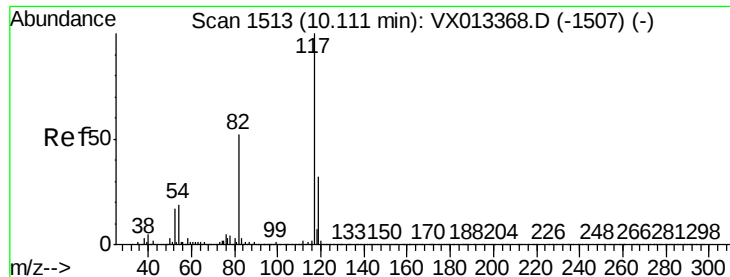
Tgt Ion: 83 Resp: 19940
Ion Ratio Lower Upper
83 100
55 91.9 37.9 113.7
98 44.2 25.1 75.3



#45
1,4-Dioxane
Concen: 0.211 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX013528.D
Acq: 22 Nov 2019 13:15

Tgt Ion: 88 Resp: 43
Ion Ratio Lower Upper
88 100
43 348.8 26.1 39.1#
58 690.7 55.8 83.8#

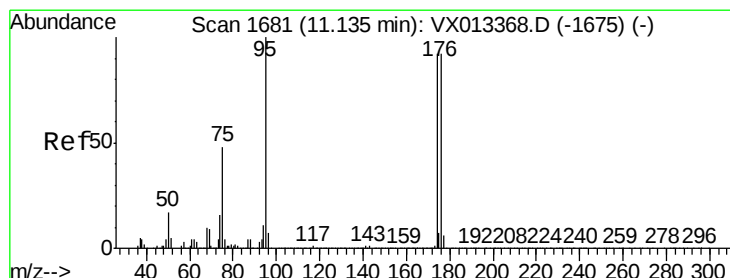
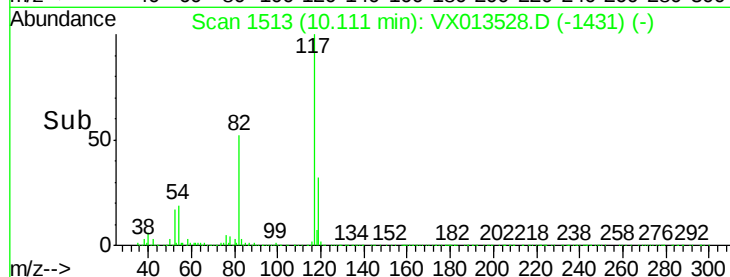
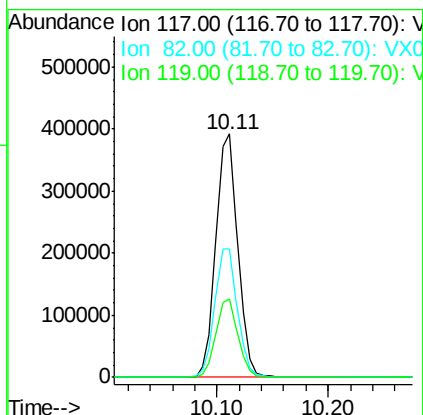
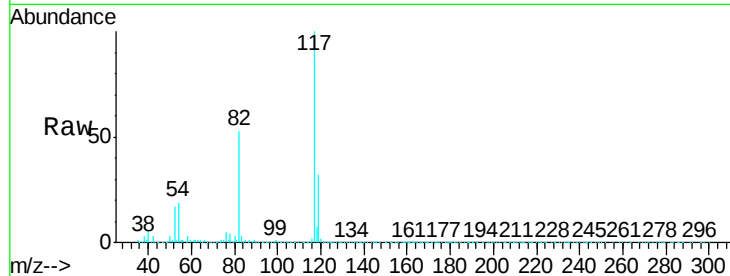




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013528.D
Acq: 22 Nov 2019 13:15

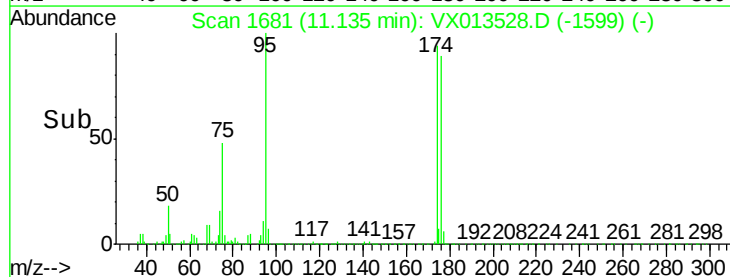
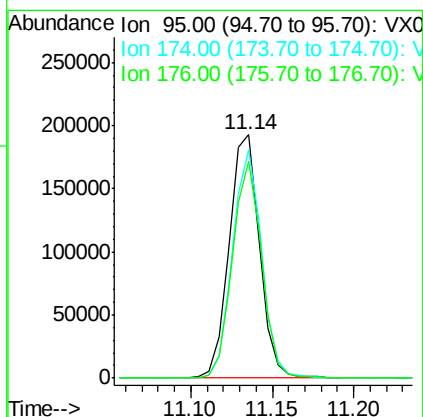
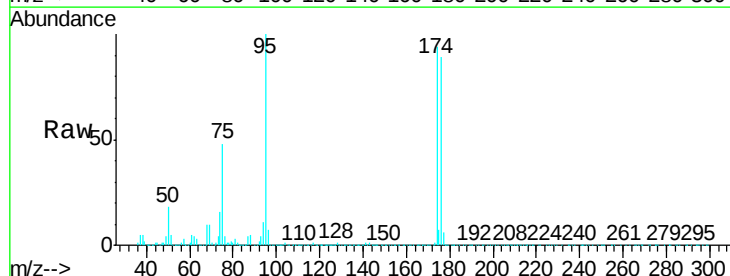
Instrument :
MSVOA_X
ClientSampled :
GE-MW-58-1SDL

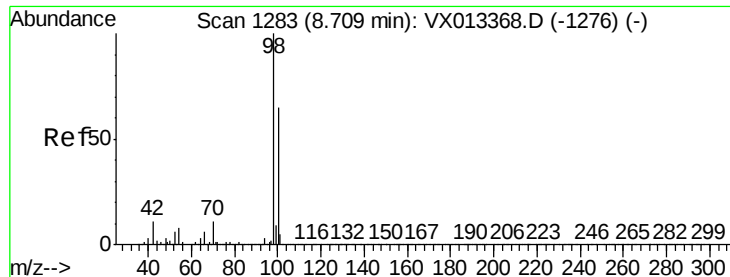
Tgt Ion: 117 Resp: 536289
Ion Ratio Lower Upper
117 100
82 54.2 43.7 65.5
119 32.0 25.5 38.3



#60
4-Bromofluorobenzene
Concen: 28.869 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013528.D
Acq: 22 Nov 2019 13:15

Tgt Ion: 95 Resp: 248840
Ion Ratio Lower Upper
95 100
174 89.6 70.2 105.2
176 85.7 68.3 102.5





#63

Toluene-d8

Concen: 30.439 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

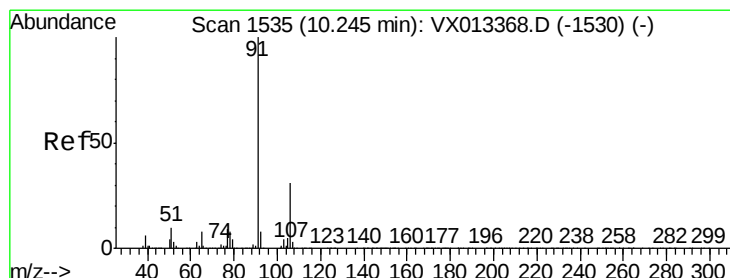
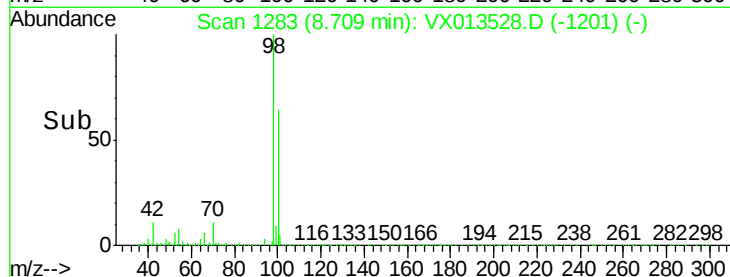
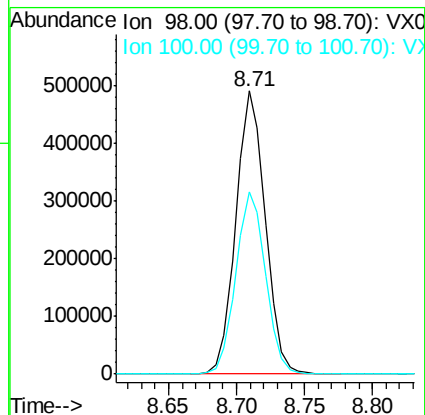
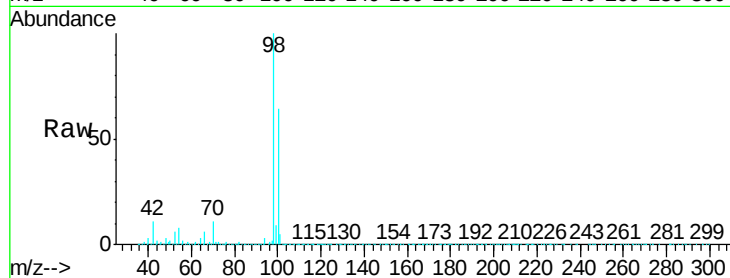
GE-MW-58-1SDL

Tgt Ion: 98 Resp: 738168

Ion Ratio Lower Upper

98 100

100 65.1 52.5 78.7



#66

Ethyl Benzene

Concen: 23.297 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX013528.D

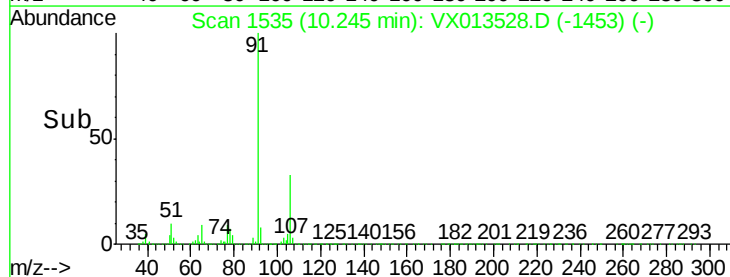
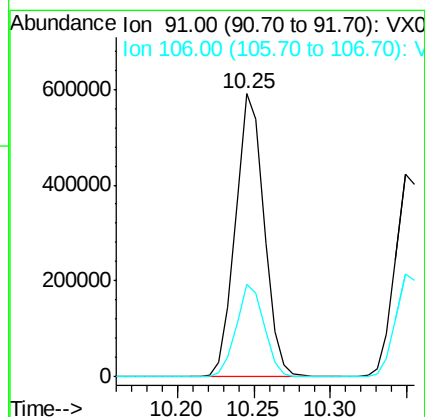
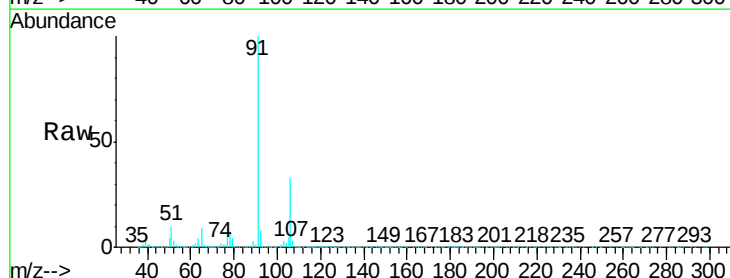
Acq: 22 Nov 2019 13:15

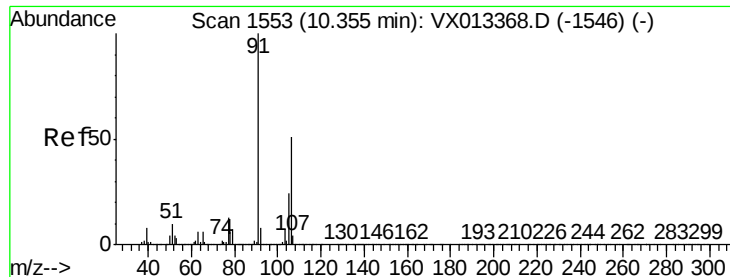
Tgt Ion: 91 Resp: 764561

Ion Ratio Lower Upper

91 100

106 32.5 25.0 37.4

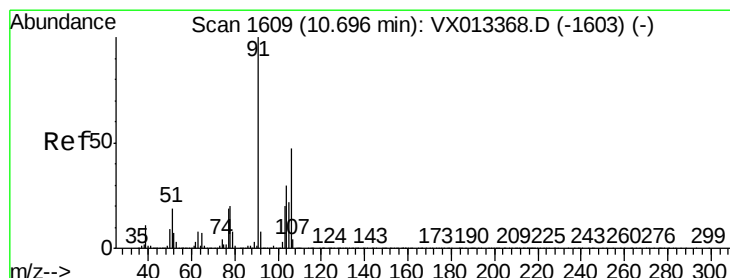
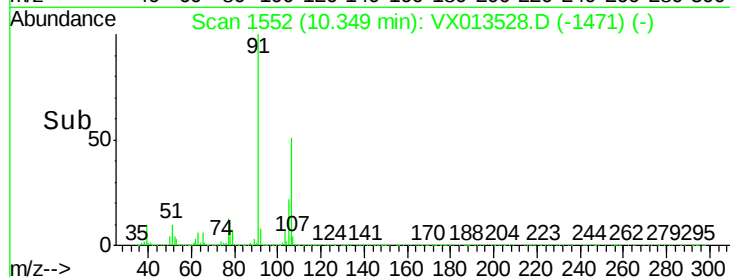
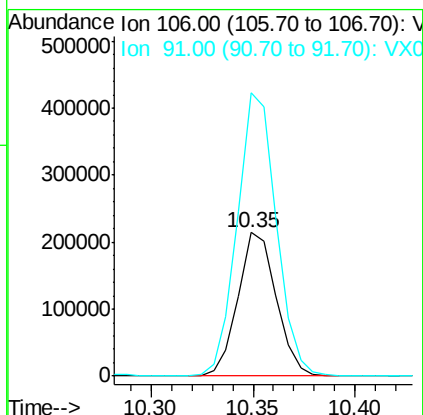
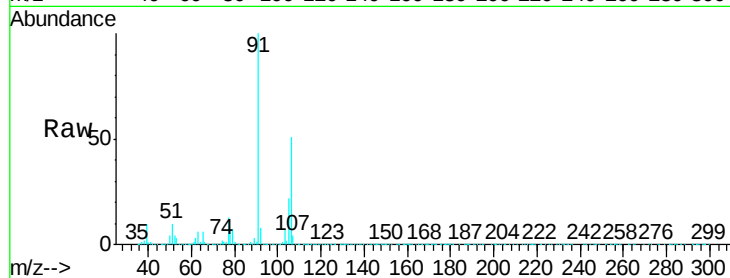




#67
m/p-Xylenes
Concen: 22.038 ug/l
RT: 10.35 min Scan# 1552
Delta R.T. -0.01 min
Lab File: VX013528.D
Acq: 22 Nov 2019 13:15

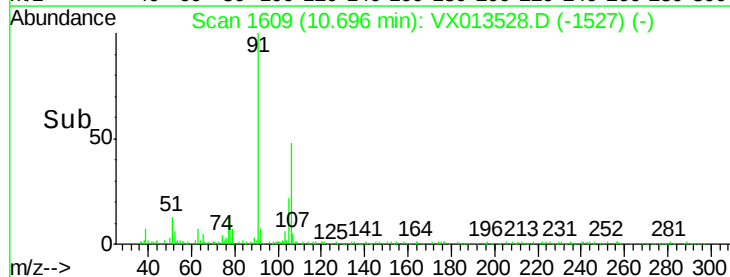
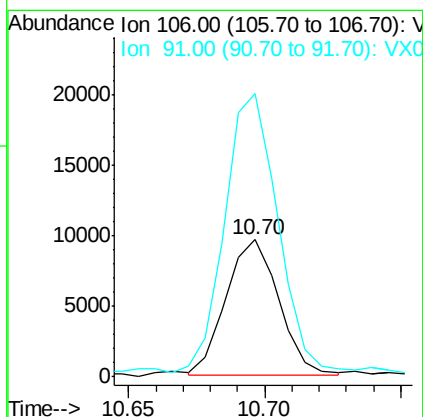
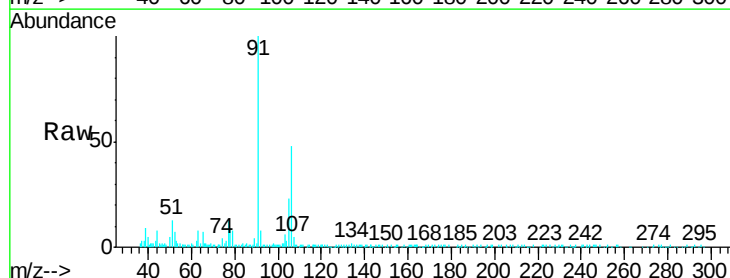
Instrument :
MSVOA_X
ClientSampleId :
GE-MW-58-1SDL

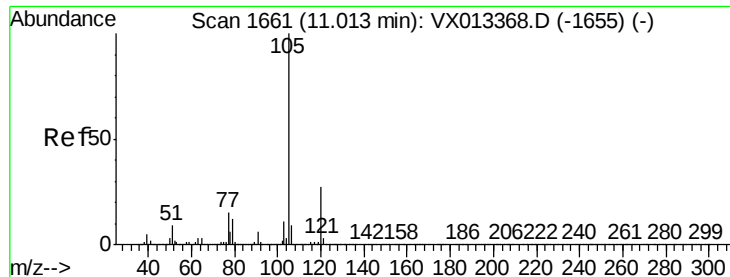
Tgt Ion:106 Resp: 278988
Ion Ratio Lower Upper
106 100
91 201.5 158.4 237.6



#68
o-Xylene
Concen: 1.057 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX013528.D
Acq: 22 Nov 2019 13:15

Tgt Ion:106 Resp: 12908
Ion Ratio Lower Upper
106 100
91 208.1 106.4 319.2





#70

Isopropylbenzene

Concen: 3.050 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

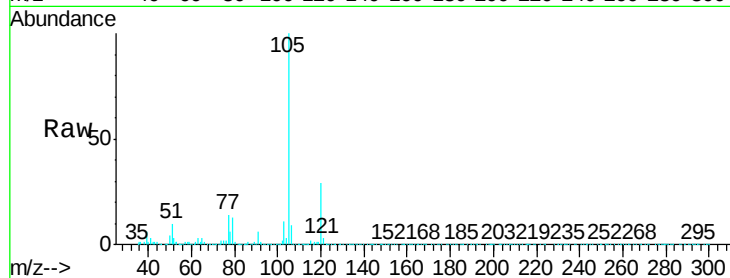
GE-MW-58-1SDL

Tgt Ion: 105 Resp: 98174

Ion Ratio Lower Upper

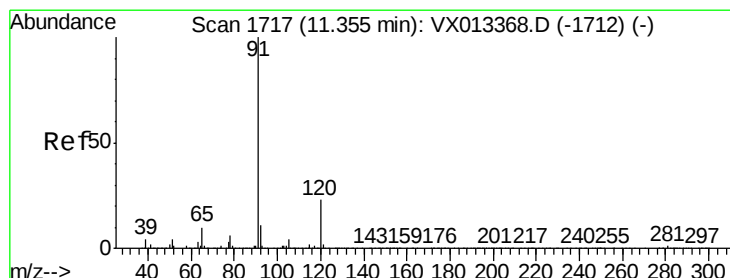
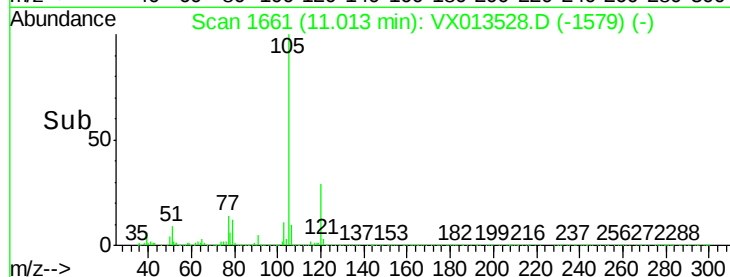
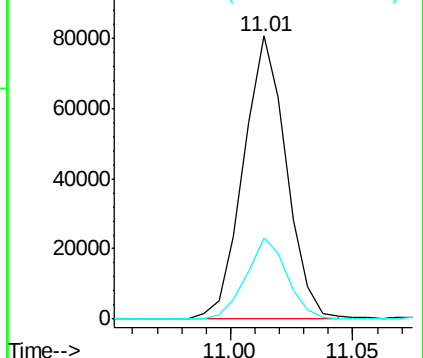
105 100

120 27.0 18.8 34.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

n-propylbenzene

Concen: 7.523 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX013528.D

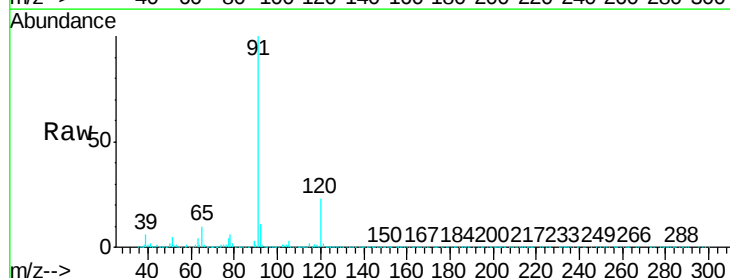
Acq: 22 Nov 2019 13:15

Tgt Ion: 91 Resp: 275221

Ion Ratio Lower Upper

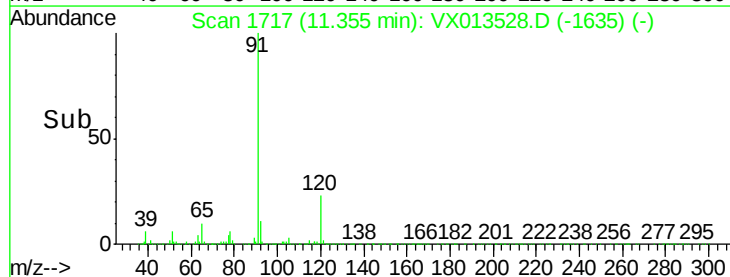
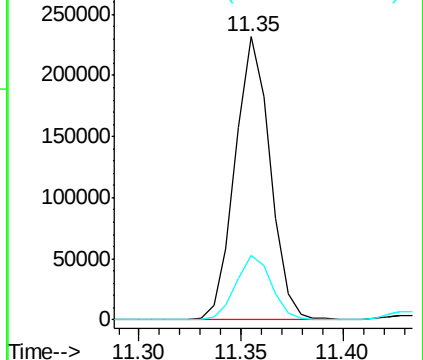
91 100

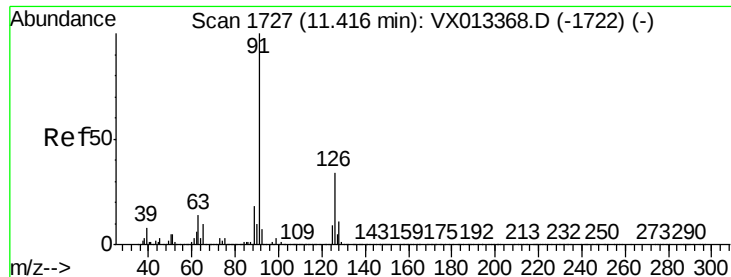
120 23.1 0.0 46.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 0.210 ug/l

RT: 11.43 min Scan# 1729

Delta R.T. 0.01 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

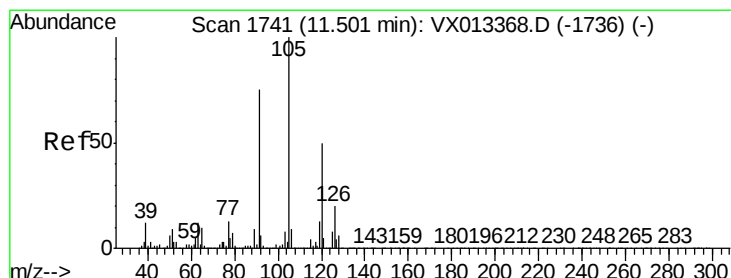
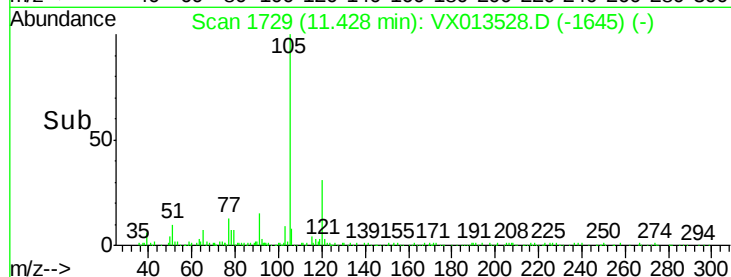
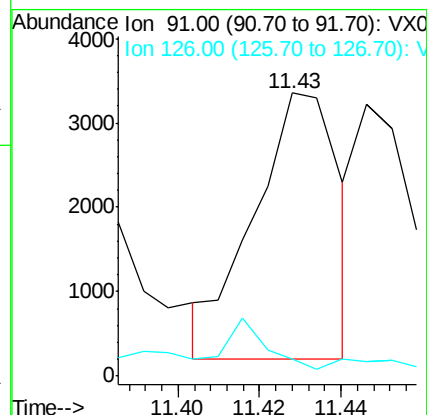
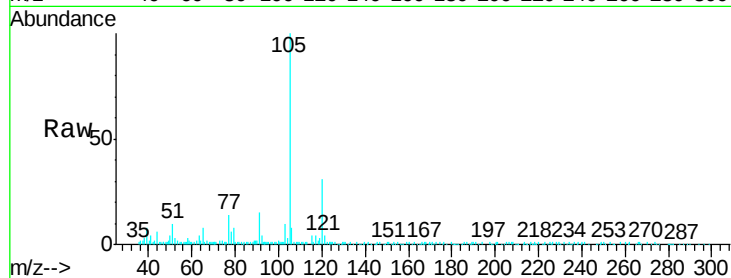
GE-MW-58-1SDL

Tgt Ion: 91 Resp: 4567

Ion Ratio Lower Upper

91 100

126 8.9 0.0 69.0



#76

1,3,5-Trimethylbenzene

Concen: 11.589 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX013528.D

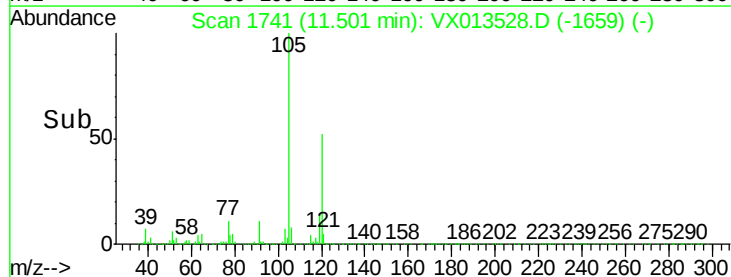
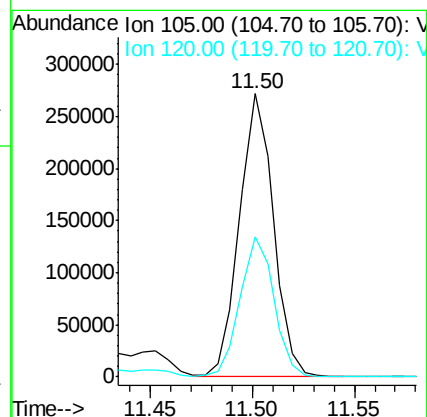
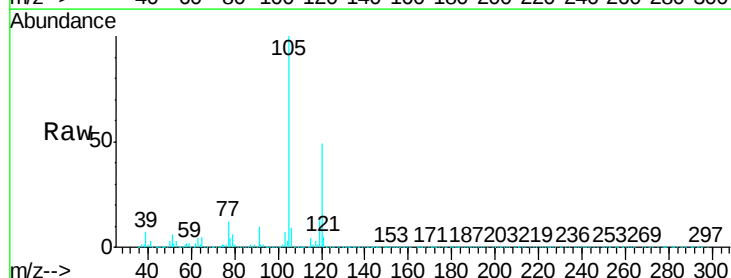
Acq: 22 Nov 2019 13:15

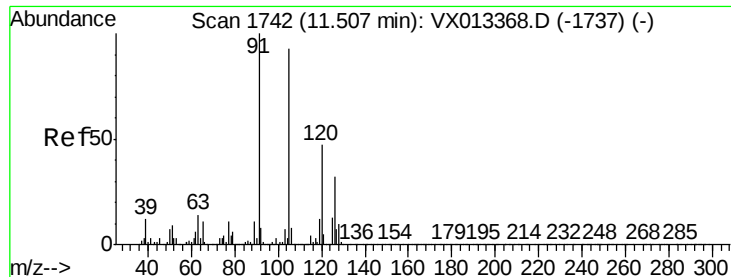
Tgt Ion: 105 Resp: 313576

Ion Ratio Lower Upper

105 100

120 49.3 0.0 100.0





#78

4-Chlorotoluene

Concen: 1.301 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.01 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

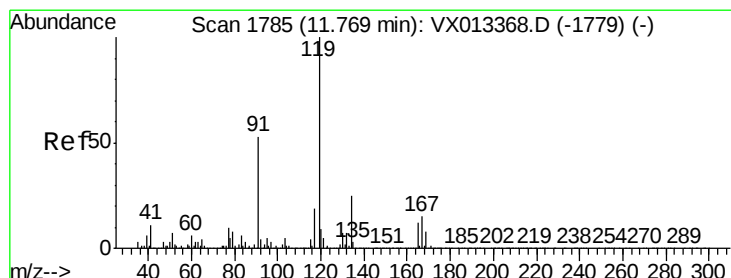
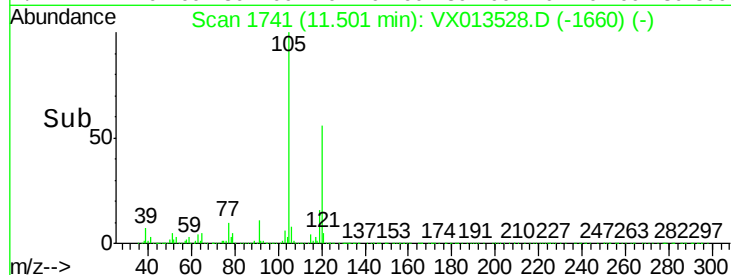
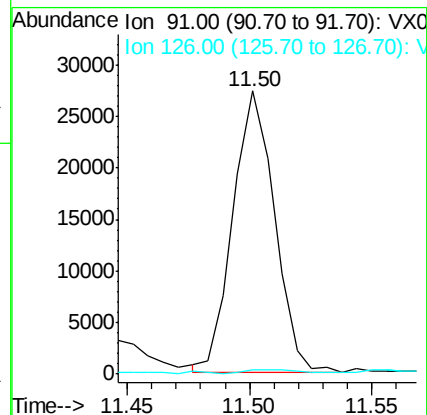
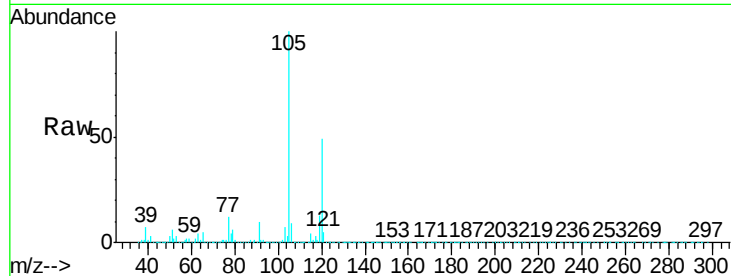
GE-MW-58-1SDL

Tgt Ion: 91 Resp: 32433

Ion Ratio Lower Upper

91 100

126 1.8 0.0 61.0



#79

tert-butylbenzene

Concen: 1.493 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. 0.03 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

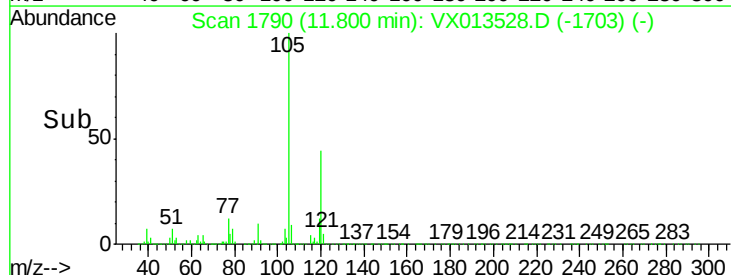
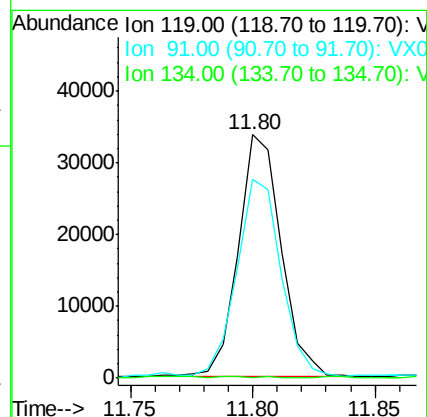
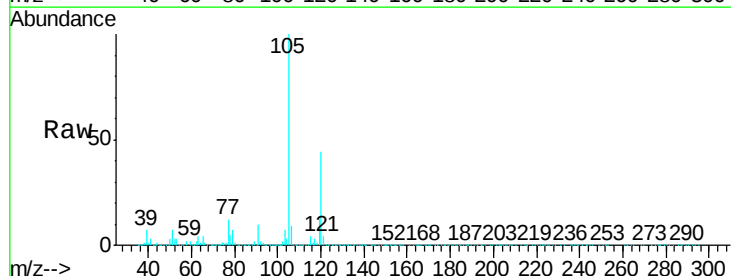
Tgt Ion: 119 Resp: 40770

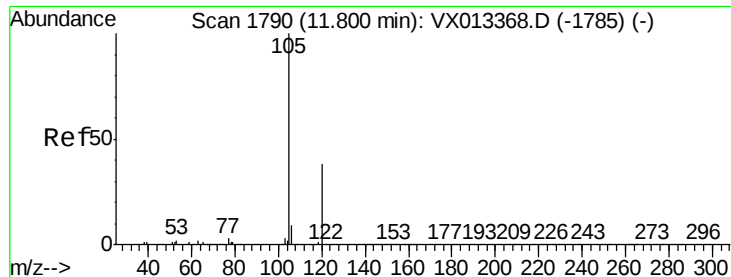
Ion Ratio Lower Upper

119 100

91 84.7 0.0 109.6

134 0.2 0.0 47.8





#80

1,2,4-Trimethylbenzene

Concen: 12.683 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. 0.00 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

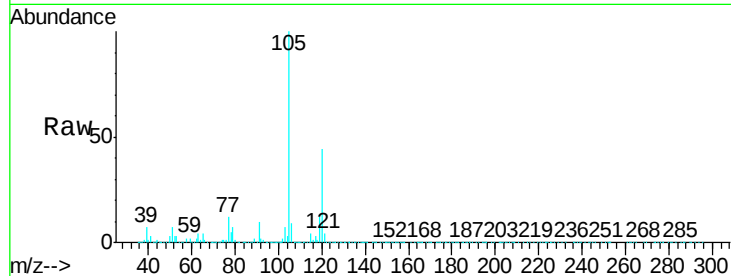
GE-MW-58-1SDL

Tgt Ion:105 Resp: 342007

Ion Ratio Lower Upper

105 100

120 45.2 0.0 94.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.80

250000

200000

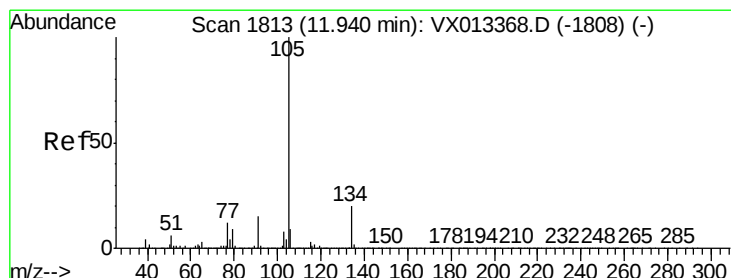
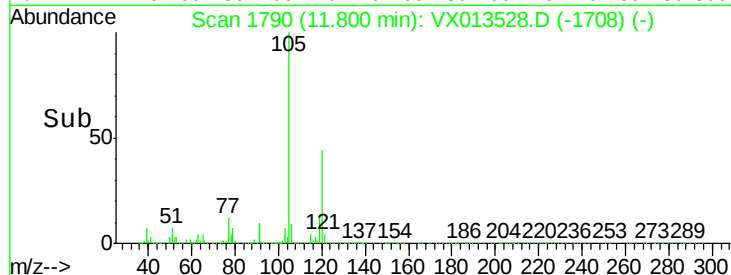
150000

100000

50000

0

Time-->



#81

sec-Butylbenzene

Concen: 0.430 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX013528.D

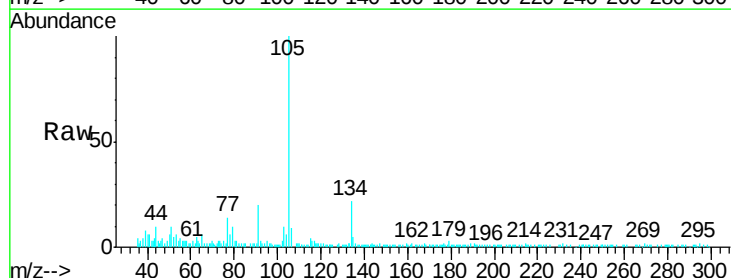
Acq: 22 Nov 2019 13:15

Tgt Ion:105 Resp: 13408

Ion Ratio Lower Upper

105 100

134 19.9 0.0 41.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.94

12000

10000

8000

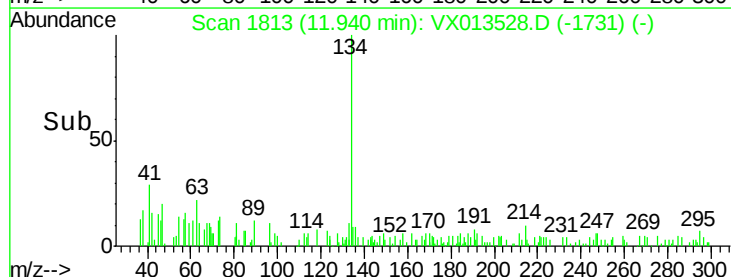
6000

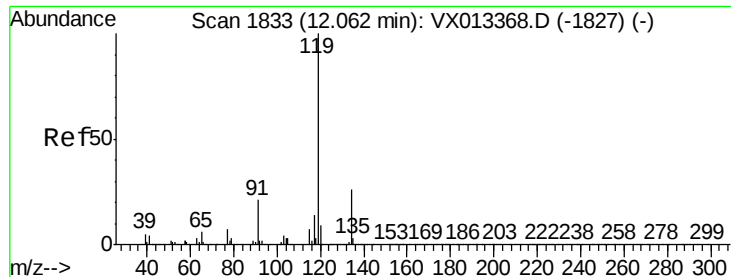
4000

2000

0

Time-->





#82

p-Isopropyltoluene

Concen: 0.262 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

GE-MW-58-1SDL

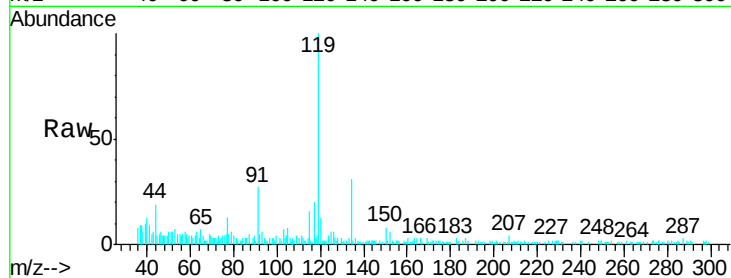
Tgt Ion: 119 Resp: 7506

Ion Ratio Lower Upper

119 100

134 31.0 0.0 51.6

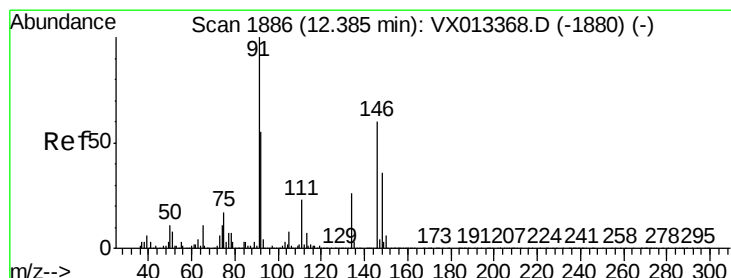
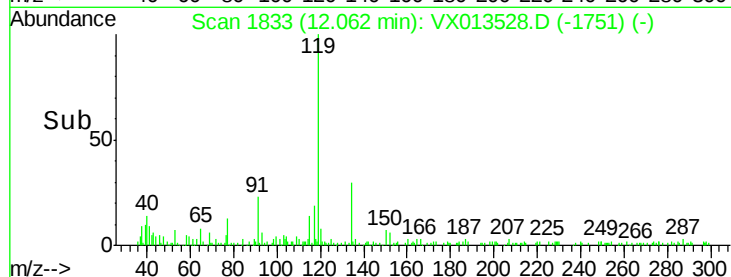
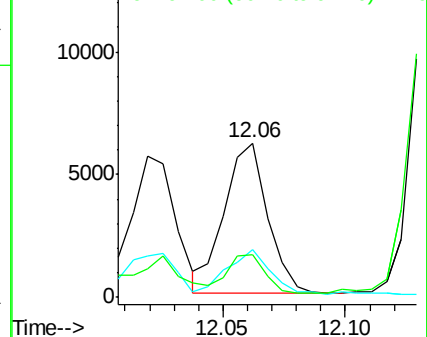
91 22.4 0.0 44.2



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



#85

n-Butylbenzene

Concen: 2.063 ug/l

RT: 12.29 min Scan# 1871

Delta R.T. -0.09 min

Lab File: VX013528.D

Acq: 22 Nov 2019 13:15

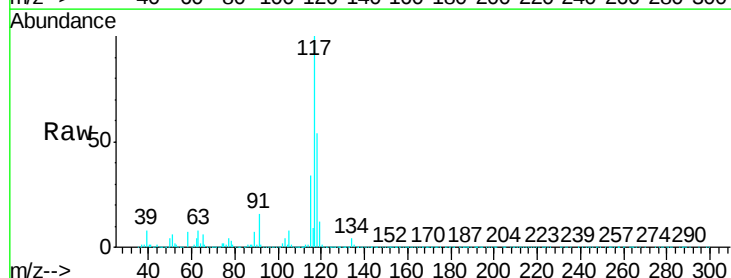
Tgt Ion: 91 Resp: 51099

Ion Ratio Lower Upper

91 100

92 11.5 0.0 109.0

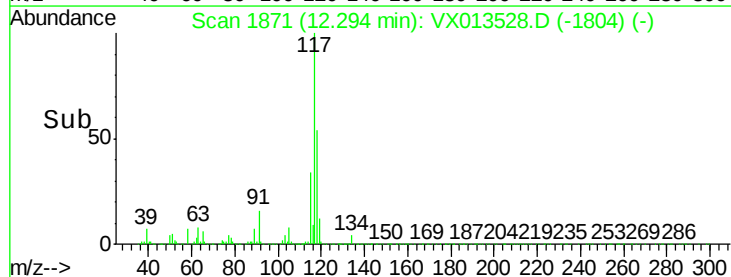
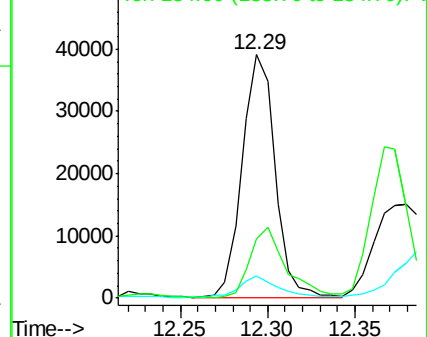
134 31.5 0.0 53.0

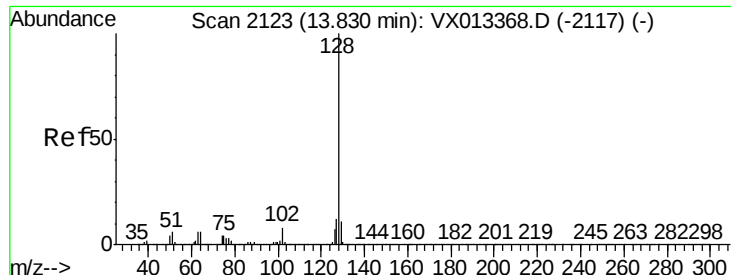


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#91
Naphthalene
Concen: 9.931 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX013528.D
Acq: 22 Nov 2019 13:15

Instrument :
MSVOA_X
ClientSampleId :
GE-MW-58-1SDL

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.7	8.8	13.2

